PERMIT APPLICATION

RCRA OPERATING PERMIT RENEWAL APPLICATION

Safety-Kleen Systems, Inc.
Medley Service Center
8755 Northwest 95th St.
Medley, FL 33178
FLD 984 171 694

Revision 0

September 20, 2022

Prepared by:

Safety-Kleen Systems, Inc.
42 Longwater Drive
Norwell, MA 02061

Safety-Kleen Medley, FL RCRA Operating Permit Renewal 2022

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

Signature and Certification

Facility Name Safety-Kleen Systems, Inc.

EPA/DEP I.D. No. FLD 984 171 694

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.

Maggie Tenant Digitally signed by Maggie Tenant
Date: 2022.09.09 18:40:01 -04'00'

Signature of the Operator or Authorized Representative*

Maggie Tenant, VP Environmental Compliance

Name and Title (Please type or print)

Date 9/9/2022 E-mail address maggie.tenant@safety-kleen.com

Telephone (734) 516-0291

*** Attach a letter of authorization**

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 Tenant
Date: 2022.09.09 18:40:35 -04'00'

Signature of the Facility Owner or Authorized Representative*

Maggie Tenant, VP Environmental Compliance
Name and Title (Please type or print)

Date 9/9/2022 E-mail address maggie.tenant@safety-kleen.com

Telephone (734) 516-0291

*** Attach a letter of authorization**

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, postclosure or corrective actions 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 Tenant
Date: 2022.09.09 18:42:50 -04'00'

Signature of the Land Owner or Authorized Representative*

Maggie Tenant, VP Environmental Compliance
Name and Title (Please type or print)

Date 9/9/2022 E-mail address maggie.tenant@safety-kleen.com

Telephone (734) 516-0291

*** 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, Director

James M. Rutledge, Director

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(9), 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 judgement, 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.

Signature

N.D. Eryou, PhD, P.E.
Name (please type)

Florida Registration Number 46888

Mailing Address 5051 Castell Drive, Suite 244
Street or P.O. Box

Naples FL 34103
City State Zip

Date 9/15/2022 E-mail address dennis@eryouengineering.com

Telephone (516) 449-5814

(PLEASE AFFIX SEAL)

N. Dennis Eryou
No 46888

Digitally signed by Norman Dennis Eryou, PE
Date: 2022.09.14 19:40:30 -04'00'

8700-12FL - FLORIDA NOTIFICATION OF REGULATED WASTE ACTIVITY

DEP Waste Management Division–HWRS, MS4560
2600 Blair Stone Rd. Tallahassee, FL 32399-2400
(850) 245-8707

Date Received
(for FDEP Official Use Only)

EPA ID: F L D 9 8 4 1 7 1 6 9 4

Please use the instructions document to complete this form
* mandatory fields

1. Reason for Submittal: (all submitters must complete pages 1 and 2 and sign page 7. Pages 3 through 6 - complete as applicable)

Mark 'X' in the correct box*:
(must choose one if a notification)

☐ To obtain a new EPA ID number (for hazardous waste, universal waste, used oil activities, or PCW activities).

☒ To provide updated information for an EPA ID number (to update status and facility identification information).

☐ To provide the final information for an EPA ID number (closing). (see instructions—must complete pages 1, 2, 3, 7)

☐ To obtain new or updating an EPA ID number for conducting Electronic Manifest Broker activities.

☐ Submitting new or revised notification for Part A for permitted facilities.

FL Registration(s) ☐ UW Mercury (see page 4) ☐ HW Transporter (see page 5) ☐ Used Oil (see page 6)

2. Facility or Business Name:*

Safety-Kleen Systems, Inc.

3. Facility Physical Location Information: (No P.O. Boxes)

Physical Street Address*: 8755 NW 95th Street ☐ Vessel

City or Town: Medley	State: FL	Zip Code: 33178
County*: Miami-Dade	Country (if not USA)*:	

4. Facility or Business Mailing Address:

☒ Same address as # 3 above or*:

City or Town*:	State*:	Zip/Postal Code*:	Country (if not USA):

5. Facility North American Industry Classification System (NAICS) Code(s)*: (at least 5 digits)

A. 5 6 2 1 1 2 (required)	B.
C.	D.

6. Facility or Business RCRA Contact Person: ☒ Same address as # 3 above or:

First Name*: Jeff	Last Name*: Curtis	Title*: Sr. Environmental Compliance
Phone Number*: 561-523-4719	Extension*:	Fax*: 561-731-1696

E-Mail*: jeff.curtis@safety-kleen.com

Street or P.O. Box (or same address box is checked)*:

City or Town*:	State*:	Zip Code*:	Country (if not USA):

7. Real Property (FL Land) Owner of the Facility's Physical Location (List additional owners in the comments section.)

Name of Owner*: Safety-Kleen Systems, Inc.

Date became Owner*: 7 / 30 / 91 mm dd yy

☐ New Owner

Street or P.O. Box (or same address box is checked)*: 42 Longwater Drive

Phone Number*: 781-792-5000

City or Town*: Norwell

State*: MA

Zip Code*: 2061

Country (if not USA):

E-Mail*: jeff.curtis@safety-kleen.com

Owner Type*: ☒ Private ☐ Federal ☐ Municipal ☐ State ☐ County ☐ Other________________

Comments:

8. Facility Operator (List additional Operators in the comments section). Same address as #7 above or:

Name of Operator*: Safety-Kleen Systems, Inc.

Date became Operator*: 7 / 30 / 91 mm dd yy

☐ New Operator

Street or P.O. Box (or same address box is checked)*:

Phone Number*:

City or Town*:

State*:

Zip Code*:

Country (if not USA):

E-Mail*:

Operator Type*: ☒ Private ☐ Federal ☐ Municipal ☐ State ☐ County ☐ Other________________

Comments:

9. RCRA Hazardous Waste Activities at this Facility: (Mark 'X' in all that apply):

(1) Generator of Hazardous Waste

☒ Yes ☐ No (This does not include Universal Waste or Used Oil)

If YES, Choose only one of the following three categories.

☒ **a. Large Quantity Generator (LQG):**

- Generates in any calendar month (includes quantities imported by importer site) 1,000 kilograms or greater per month (kg/mo) (2,200 lbs/mo.) of non-acute hazardous waste; or
- Generates in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; or
- Generates in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.

☐ **b. Small Quantity Generator (SQG):**

- Generates in any calendar month greater than 100kg/mo but less than 1,000 kg/mo (>220 to <2,200 lbs.) of non-acute hazardous waste and/or 1 kg (2.2 lbs) or less of acute hazardous waste and/or no more than 100 kg (220 lbs) of any acute hazardous spill cleanup material.

☐ **c. Very Small Quantity Generator (VSQG):**

- Generates in any calendar month 100 kg/mo or less (220 lbs.) of non-acute hazardous waste and/or 1 kg (2.2 lbs) or less of acute hazardous waste.

In addition, indicate other generator activities that apply.

☐ **d.** Short-Term Generator (one-time, not on-going)

☐ **e.** Mixed Waste (hazardous and radioactive) Generator

☐ **f.** United States Importer of hazardous waste

☐ **g.** LQG notifying of VSQG Hazardous Waste Under-Control of the Same Person pursuant to 40 CFR 262.17(f). **(Addendum A Required)**

☐ **h.** Episodic: Not lasting more than 60 days: ☐SQG ☐LQG **(Addendum B Required)**

☐ **i.** Electronic Manifest Broker, as defined in 40 CFR 260.10, electing to use EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator.

RCRA Hazardous Waste Status Notification or Out of Business Notification

EPA ID No.* FLD984171694

9. RCRA Hazardous Waste Activities at this Facility continued: (Mark 'X' in all that apply):

For Items 3 through 9, mark 'X' in all that apply.

(2) **Treater, Storer, or Disposer of Hazardous Waste** (at your facility—Choose Only One) Note: A hazardous waste permit may be required for this activity.

☒ a. Operating Commercial TSD

☐ b. Operating Non-Commercial TSD

☐ c. Non-Operating: Postclosure or Corrective Action Permit or Order (HSWA, etc.)

(3) ☐ **Recycler of Hazardous Waste** (at your facility)
Specify: ☐ Commercial ☐ Non-Commercial
Specify: ☐ Stores prior to recycling ☐ Does not store prior to recycling.
Note: A permit maybe required for storage prior to recycling.

(4) ☐ **Exempt Boiler and/or Industrial Furnace**
☐ a. Small Quantity On-site Burner Exemption
☐ b. Smelting, Melting, and Refining Furnace Exemption

(5) ☐ **Person Authorized to Manage Very Small Quantity Waste Generated at Other Facilities**
Choose this management activity ONLY if you attach
EITHER a copy of your application for such authorization OR the authorization you received from FDEP.

(6) ☒ **Receives Hazardous Waste from Off-Site**

(7) ☐ **Underground Injection Control**

(8) ☐ **Recognized Trader**— Mark all that apply
☐ a. Importer
☐ b. Exporter

(9) ☐ **Importer/ Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR subpart G**— Mark all that apply
☐ a. Importer
☐ b. Exporter

10. Waste Codes for Federally Regulated Hazardous Wastes*:

List the waste codes of the Federal hazardous wastes handled at your facility. List them in the order they are presented in the regulations (e.g., D001, D003, F007, K019, P012, U112). Hazardous waste transporters must list codes routinely or usually transported. Use comments or an additional page if more spaces are needed.

1 D001	2 D002	3 D003	4 D004	5 D005	6 D006	7 D007
8 D008	9 D009	10 D010	11 D011	12 D012	13 D018	14 D019
15 D021	16 D022	17 D023	18 D024	19 D025	20 D026	21 D027

11. Other Status Changes

(If no longer handling waste or closed, items 9 and 10 should be left blank and items 12-16 skipped):

(A) Central Accumulation Area (CAA) or Facility Closed:

☐ Central Accumulation Area (CAA)

☐ Facility Closed (Complete this section only if all business activities at this facility have ceased.)

(B) Closure Dates:

☐ (1) Expected closure date ______________________ (date in mm/dd/yyyy)

☐ (2) Requesting new closure date ______________________ (date in mm/dd/yyyy)

☐ (3) Date of closure: ______________________ (date in mm/dd/yyyy)

☐ a. In compliance with the closure performance standards in 40 CFR 262.17(a)(8)

☐ b. Not in compliance with the closure performance standards in 40 CFR 262.17(a)(8)

(C) Property Tax Default ☐ **(D) Petition for Bankruptcy Protection** ☐

Universal Waste Notification and Mercury Transporter/Handler Registration	EPA ID No.* FLD984171694

12. Universal Waste (UW) Activities (Mark 'X' and complete all that apply) :

A. Federal Notification

☐ **Federally Defined Large Quantity Handler (LQH) = Generate/Accumulate: 5,000 kg (11,000 lb) or more of any combination of UW accumulated (at any one time)**

Accumulates: ☐ **a. UW Batteries** ☐ **b. Pesticides** ☐ **c. Pharmaceuticals**
☐ **d. Mercury Containing Devices** ☐ **e. Mercury Containing Lamps**

☐ **Destination Facility for UW** Note: For this activity, a facility must treat, dispose, or recycle a UW.
A permit is required for storage prior to recycling.

B. Florida Universal Pharmaceutical Waste (UPW): one-time notification

☐ Pharmaceuticals **LQH** = 5,000 kg or more of Universal Pharmaceutical Waste (UPW) accumulated (at any one time)

☐ Pharmaceuticals **Acute LQH** = more than 1 kg (2.2 lb) of acutely hazardous ("P-listed") pharmaceutical waste (UPW) accumulated (at any one time)

☐ **Reverse Distributor** of Universal Pharmaceutical Waste (UPW) (must be permitted with the Florida Department of Business and Professional Regulation [DBPR])

☐ Florida Universal Pharmaceutical Waste (**UPW**) Transporter

C. Florida Annual Mercury Handler Registration:

For-hire transporters, transfer facilities, handlers, reclamation and recovery facilities of Mercury-Containing Lamps and Devices operating in the State of Florida are required to register annually with the Department using this section of the form [Chapter 62-737, F.A.C.]. A one-time fee of $1,000 is required for first time registration as a Large Quantity for-hire Handler of Mercury-Containing Lamps and Devices as detailed in 62-737.400(3)(a)3.,F.A.C. (please contact FDEP first).

If you only generate lamps and/or devices or manage pharmaceuticals, do not register or complete the information below.

(1) This form is being submitted as a Florida Registration of Universal Waste Mercury Transporter/Handler for-hire Activities

☐ 1st Annual Registration ☐ Annual Renewal ☐ One-time $1,000 fee for Mercury for-hire first time LQH registration is attached

☐ For-hire **Transporter** of Universal Waste Mercury-Containing Lamps or Devices ☐ For-hire **Transfer Facility** of Universal Waste Mercury-Containing Lamps or Devices ☐ Mercury-Containing Devices (thermostats, etc.) **SQH** = less than 100 kg accumulated by for-hire handler ☐ Mercury-Containing Lamps **SQH** = less than 2,000 kg (8,000 lamps) accumulated by for-hire handler	Annual Registration Required
☐ Mercury-Containing Devices **LQH** = 100 kg (220 lb) or more accumulated at any one time by for-hire handler ☐ Mercury-Containing Lamps **LQH** = 2,000 kg (4400 lbs/8,000 lamps) or more accumulated by for-hire handler	Annual Registration + one– time $1,000 fee+ More Requirements (contact FDEP)
(2) Mercury Recovery and/or Reclamation Facility (A hazardous waste permit is required for this activity) ☐ 1st Annual Registration ☐ Annual Renewal	Annual Registration Required

Briefly Describe your Universal Waste Activities: ☐ We use Drum Top Bulb Crusher(s).

13. Other State Regulated Waste Activities:

Petroleum Contact Water (PCW) ☐ **Recovery** ☐ **Transport** [62-740 F.A.C.]

Note: A water facility permit may be required for this activity. An annual report is required for a recovery facility pursuant to Rule [62-740.300(5)] F.A.C.

Hazardous Waste Transporter and Academic Laboratories | EPA ID No.* FLD984171694

14. HW Transporter Activities: (Mark 'X' and complete all that apply if you need to register your HW Transporter activities)

Transporters of and Transfer Facilities for Hazardous Waste in the State of Florida are required to register and annually renew their registration. Evidence of casualty/liability insurance pursuant to 62-730.170(2)(a) is required as part of this registration. Transporters and transfer facilities may only begin operations after receiving approval from the Department.

Generators who transport waste only within the boundaries of their facility should NOT register in box 14.A below.

A. HW Transporter Registration Information (must be completed annually and when this information changes)

This form is: ☐ **Initial Registration** ☐ **Renewal** ☐ **Notification of changes** ☐ **Cancel Registration**

☐ 1. For own waste only

☐ 2. For commercial purposes

☐ 3. Both commercial and own waste

4. Transportation Mode ☐ Air ☐ Rail ☐ Highway ☐ Water ☐ Other - specify ____________________

B. HW Transfer Facility Registration Information (must be completed annually and when this information changes)

☐ **This facility is a Hazardous Waste Transfer Facility: (as listed in Item 3)** Storage Volume ______________

This form is: ☐ **Initial Registration** ☐ **Renewal** ☐ **Notification of changes** ☐ **Cancel Registration**

Note: Hazardous Waste transfer facilities must comply with the requirements of Rule 62-730.171, F.A.C., and Rule 62-730.182, F.A.C.

The Transfer Facility records required under the provisions of Rule 62-730.171(6) , F.A.C., are kept at (check one):
☐ Our mailing (business) address ☐ The site (facility) address

Please enter the EPA ID Number of the HW Transporter who carries the insurance for this Transfer Facility:

Please see 14.C for additional items to be submitted for registration of a Hazardous Waste Transfer Facility [Rule 62-730.171(3), Florida Administrative Code (F.A.C.)]:

C. The following items are required to be submitted with the initial notification for a **transfer facility** and any changed items must be submitted with any subsequent submission [Rule 62-730.171(3), Florida Administrative Code (F.A.C.)] :

__Certification by a responsible corporate officer of the transporter facility that the proposed location satisfies the criteria of Section 403.7211(2), Florida Statutes (F.S.) [Rule 62-730.171(3)(a)1., F.A.C.]

__Evidence of the transporter facility's financial responsibility [Rule 62-730.171(3)(a)3., F.A.C.]

__A brief general description of the transfer facility operations [Rule 62-730.171(3)(a)4., F.A.C.]

__A copy of the facility closure plan [Rule 62-730.171(3)(a)5., F.A.C.]

__A copy of the contingency and emergency plan [Rule 62-730.171(3)(a)6., F.A.C.]

__A map or maps of the transfer facility [Rule 62-730.171(3)(a)7., F.A.C.]

15. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

☐ **1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories**

See the item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:

☐ a. College or University
☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university
☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

☐ **2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories**

Used Oil and Hazardous Secondary Material	EPA ID No.* FLD984171694

16. Used Oil and Used Oil Filter Activities: (Mark 'X' and complete all that apply)

Transporters (exemptions in 40 CFR 279.40(a)(1-4)), transfer facilities, processors, off-specification burners, and/or marketers <u>must annually register</u> with the Department using this form. An annual $100 registration fee is required for all, except used oil (UO) Processors and collection centers.

This form is: ☐ **Initial Registration** ☐ **Renewal** ☐ **Notification of changes** ☐ **Cancel Registration**

☐ If applicable, a check or money order, in the amount of $100, payable to Florida Department of Environmental Protection is enclosed. UO Collection Centers must check 16.(2) of this form (not as a registration).

(1) Used Oil Transporter - mark 'X' in all that apply: (occurring in Florida)

☐ a. Transporter (off-site) and noncontiguous locations

☐ b. Transfer Facility

(2) ☐ Collection Center (From businesses, <u>no more than</u> 55 gal per shipment)

(3) ☐ Used Oil Processor **(A permit is required.)**

(4) ☐ Used Oil Re-refiner **(A permit is required.)**

(5) ☐ Off-Specification Used Oil Burner
☐ Utility Boiler ☐ Industrial Boiler ☐ Industrial Furnace

(6) Used Oil Fuel Marketer ☐ On-Spec ☐ Off-Spec

(7) Used Oil Filter Management (must annually register)

☐ a. Transporter
☐ b. Transfer Facility
☐ c. Processor (Annual Report Required)
☐ d. End User (see instructions for definition)

(8) The records required under the provisions of Rule 62-710.510, FAC, are kept at (check one):

☐ Our mailing (business) address (as listed in Item 4)
☐ The site (facility) address (as listed in Item 3)

(9) Used Oil Transporters: (Exemptions in 40 CFR 279.40(a)(1-4))

- ALL registered UO transporters must submit an annual report except generators transporting UO from noncontiguous operations within their own company.
- UO transporters transporting off-site over public highways only within their own company must submit proof of insurance.
- UO transporters transporting more than 500 gallons/year must submit proof of insurance annually, and must sign and certify this submission as a certified used oil transporter in section 19 (except those exempted by Rule 62-710.600(1), F.A.C.).

☐ The used oil annual report is attached ☐ Evidence of Liability Insurance pursuant to 62-710.600(2)(e)., F.A.C. is attached.

17. Notification of Hazardous Secondary Material (HSM) Activity

(1) ☐ Notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), or (27). **(Addendum C Required)**

(2) ☐ Notifying under 40 CFR 260.43(a)(4)(iii) that the product of your recycling process has levels of hazardous constituents that are not comparable to or unable to be compared to a legitimate product or intermediate but that the recycling is still legitimate. **(Addendum C Required)**

Required signature page **EPA ID No.*** FLD984171694

18. Comments **(attach a page if more space is needed):**

#10 Continued: D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, F001, F002, F003, F004, F005, U002, U019, U035, U043, U044, U052, U056, U058, U069, U122, U159

19. Certification: 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 gather and evaluate the information submitted. 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 known violations.

☐ **I certify as a Used Oil Transporter** that I am familiar with the applicable Florida and Federal laws and rules governing used oil transportation and have an annual and new employee training program in place covering the applicable used oil rules. Evidence of financial responsibility is demonstrated by the Used Oil Transporter Certificate of Liability Insurance, DEP form 62-730.900(5)(a), F.A.C..

Signature of owner, operator, or an authorized representative:

Date Signed (mm-dd-yyyy): ~~8~~ 9/8/2022

Print Name (First, Middle Initial, Last): Jeffrey S. Curtis

Title: Sr. Environmental Compliance Mgr.

Organization: Safety-Kleen Systems, Inc.

Used Oil ☐

Email: jeff.curtis@safety-kleen.com

Signature of owner, operator, or an authorized representative:

Date Signed (mm-dd-yyyy):

Print Name (First, Middle Initial, Last):

Title:

Organization:

Used Oil ☐

Email:

If the person that filled in this form is not the Facility Contact or Operator, please complete the information below:

(Name of person completing this form) (Phone Number) (E-mail Address)

Tab 1

Part I

Revision Number 0	
Date 09/20/2022	
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 [40 CFR Part 270.13 (a)]

1. Type of Facility in accordance with Part 270.13(a)
☐ TREATMENT
    ☐ Tanks ☐ Piles ☐ Surface Impoundment
    ☐ Incineration ☐ Containment Building
    ☐ Boiler / Industrial Furnace Type of Unit ________
    ☐ Miscellaneous Unit Type of Unit ________
☑ STORAGE
    ☑ Containers ☑ Tanks ☐ Piles
    ☐ Surface Impoundment ☐ Containment Building
    ☐ Miscellaneous Unit Type of Unit ________
☐ DISPOSAL
    ☐ Landfill ☐ Land Treatment ☐ Surface Impoundment
    ☐ Miscellaneous Units Type of Unit ________

2. Type of application [40 CFR Part 270.13 (a)]:
☐ Construction Permit
☑ Operation Permit
☐ Construction & Operation Permit
☐ Research, Development & Demonstration (RD&D) Permit
☐ Postclosure Permit
☐ Clean Closure Plan
☐ Subpart H Remedial Action Plan
☐ Corrective Action

3. Revision Number: 0 - 09/20/22

4. Date Current Operation Began, or is expected to begin: 07 / 16 / 1992

5. Facility Name [40 CFR Part 270.13 (b)] Safety-Kleen Systems, Inc.

6. EPA/DEP I.D. No. FLD 984 171 694

7. Facility Location or Street Address [40 CFR Part 270.13 (b)] 8755 Northwest 95th St, Medley, FL 33178

8. Facility Mailing Address 8755 Northwest 95th Street
Street or P.O. Box
Medley FL 33178
City State Zip

9. Contact Person Jeff Curtis Telephone (561) 523-4719

Title Sr. Environmental Compliance Manager

Mailing Address 5610 Alpha Drive
Street or P.O. Box
Boynton Beach FL 33426
City State Zip

Contact E-mail jeff.curtis@safety-kleen.com

10. Operator Name [40 CFR Part 270.13 (d)] Safety-Kleen Systems, Inc.

Telephone (781) 792-5000

Mailing Address 42 Longwater Dr
Street or P.O. Box
Norwell MA 02061
City State Zip

Operator E-mail

11. Facility owner's name [40 CFR Part 270.13 (e)] Safety-Kleen Systems, Inc.

Telephone (781) 792 - 5000

Mailing address 42 Longwater Dr
Street or P.O. Box
Norwell MA 02061
City State Zip

E-mail address

12. Legal structure [40 CFR Part 270.13 (d)]

☑ Corporation ☐ Non-profit corporation ☐ Partnership ☐ Individual
☐ Local government ☐ State government ☐ Federal government ☐ Other

13. If an individual, partnership, or business is operating under an assumed name, specify the county and state where the name is registered.

County N/A 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 N/A

Address
Street or P.O. Box City State Zip

Name

Address
Street or P.O. Box City State Zip

16. Site Ownership Status

Owned ✓ To be purchased To be leased ______ years
Presently leased; the expiration date of the lease is ____/____/________.

If leased, indicate land owner's name. ____________________

Address ____________________
Street or P.O. Box City State Zip

E-mail address ____________________

17. Name of Engineer N.D Eryou, PhD, PE Registration No. 46888

Address 5051 Castell Drive, Suite 244 Naples FL 34103
Street or P.O. Box City State Zip

Associated with: Eryou Consulting Engineers

18. Is the facility located on Tribal land [40 CFR Part 270.13 (f)]? ☐ Yes ☑ No

19. Existing or pending environmental permits (attach a separate sheet, if necessary): [40 CFR Part 270.13 (k)]

NAME OF PERMIT	AGENCY	PERMIT NUMBER	DATE ISSUED	EXPIRATION DATE
HW Permit	FDEP	56019-011-HO	5/21/2018	3/19/2023
Industrial Waste	DERM	IW-00033	6/1/2022	5/31/2023
LW Transporter	DERM	LW-000046	4/1/2022	3/31/2023
Air	DERM	AP-001521	7/1/2022	6/30/2023

B. **Site Information** [40 CFR Part 270.13 (b)]

1. The facility is located in Miami-Dade county.

The nearest community to the facility is Medley.

Latitude 25.860192 Longitude -80.340385

Method and datum Google Maps

2. The area of the facility site is 4.5 acres.

3. Attach a scale drawing and photographs of the facility showing the location of all past, present, and future treatment, storage and disposal areas. Include photographs and the locations of all Solid Waste Management Units and Areas of Concern. Also, show the hazardous wastes traffic pattern including estimated volume and control [40 CFR Part 270.13 (h)].

4. Attach a topographic map which shows all the features indicated in the instructions for this part.

5. Is the facility located in a 100-year flood plain? ☐ Yes ☑ No

6. The facility complies with the wellhead protection requirements of Chapter 62-521, F.A.C.

☑ Yes ☐ No

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C. Land Use Information

1. The present zoning of the site is Light Industrial.

2. If a zoning change is needed, what should the new zoning be? N/A.

D. Operating Information

1. Is waste generated on-site? ☑ Yes ☐ No

2. List the NAICS codes (5 to 6 digits) [40 CFR Part 270.13 (c)] 562112

3. Use the codes and units provided in the instructions to complete the following table. Specify [40 CFR Part 270.13 (i and j)]:

   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 facility.

PROCESS CODE	PROCESS DESIGN CAPACITY AND UNITS OF MEASURE	HAZARDOUS WASTE CODE	ANNUAL QUANITY OF HAZARDOUS WASTE AND UNITS OF MEASURE
See Part I.D.3			

4. A brief description of the facility [40 CFR Part 270.13 (m)]:

   Please see Part I.D.4

5. For hazardous debris, a description of the debris category(ies) and contaminant category(ies) to be treated, stored or disposed of at the facility [40 CFR Part 270.13 (n)]:

   Please see Part I.D.5

Part I *B. Site Information (40 CFR Part 270.13(b))*

3. FACILITY LAYOUT AND TRAFFIC PATTERNS (40 CFR Part 270.13(b))

Figure 2.1-1, found at the end of Part I, is a scale drawing showing the facility layout. Site photographs are provided in Appendix A at the end of the permit application. The non-building areas of the facility are paved with asphalt or concrete as noted on Figure 2.1-1. Other minor unpaved areas are vegetated with grass.

Figure 2.1-2, found at the end of Part I, shows the site traffic patterns. Estimated annual volumes of hazardous wastes moving through the facility are found on page 3 (Process – Codes and Design Capabilities). The majority of the vehicular traffic enters and exits the facility through a mechanically operated gate at the Southwest corner of the facility. One additional manually operated gate is located at the Northwest corner of the facility. Loading/unloading operations of containerized waste occurs at the concrete dock area (Area B), and the South side of the Return/Fill Shelter (Area A). Approximately once per week a tractor trailer removes containerized waste for transfer to a Safety-Kleen or Clean Harbors TSDF. This truck backs up to the concrete dock, located on the Southeastern corner the building in Area B, to load waste containers and unload product. Local facility route trucks may also unload containerized waste inside the Return/Fill Shelter (Area A), and at the dock (Area B). 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 D) approximately once every 20 days. Used oil loading/unloading also occurs in Area D. Truck-to-building transfer of Fluid Recover Service (FRS) wastes will occur on asphalt or concrete surfaces within the compound (Areas A, B and E).

U.S. 27, Okeechobee Road is the major access road to the facility. This 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 facility route trucks that travel the routes between the branch and customers use the two-lane road within the industrial park.

Traffic from this facility is not expected to have a major effect on local traffic conditions. The facility and adjacent facilities have been in operation since at least 1992. The roads have been able to sustain the loads being transported over them since operations began.

Part I

B. Site Information

4. SITE TOPOGRAPHY 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.

5. 100-Year Floodplain Area

Based on information available (Figure 2.2-2), the majority of the facility is located in Zone X. This area has been classified as "areas outside of 100-year floodplains". There is a small portion of the eastern facility property that lies in Zone AH. This area has been classified as "areas of 100-year shallow flooding with a constant water-surface elevation (usually areas of ponding) where average depths are between 1 and 3 feet". There are also areas surrounding the property that fall into Zone AH. No special flood management procedures are necessary.

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 unnamed lakes to the northeast and southeast.

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.

Ground Water Monitoring Wells Onsite

There are three (3) monitoring wells located onsite, see Figure 2.1-1: MW-1 on the west side of the tank farm, MW-2 on the east side of the tank farm, and MW-3 on the north side of the tank farm. These wells are sampled, and analyzed, annually per requirements of the facilities Industrial Waste Operating Permit (IW-333), issued by the Miami-Dade County Regulatory and Economic Resources Department.

Part I

D. Operating Information

3. Process – Codes and Design Capacities (40 CFR Part 270.13(i)(j))

Waste Type	**Process Design Capacity (Gallons)**	**Process Code(s)**	**Estimated Annual Amt. (Tons)**	**Waste Codes**
Spent Parts Washer Solvent	20,000	S01* S02**	542	D001 and D-codes listed in Note below
Branch-Generated Liquids Solids (Debris)	6,912	S01*	6	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*	21	D-codes listed in note below
Dry Cleaning Waste (Perchloroethylene)	6,912	S01*	234	F002 and D-codes listed in note below
Dry Cleaning Waste (Non-perchloroethylene)	6,912	S01*	Included above	D001 and D-codes listed in note below
Paint Wastes	6,912	S01*	46	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) Transfer Wastes	11,880	S01***	167	Transfer wastes-waste codes assigned by generator ****
Aqueous Brake Cleaner	11,880	S01***	14	Transfer wastes – none, unless 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 warehouse container storage area. The maximum capacity in the warehouse container storage area for hazardous waste and Product is 29,400 gallons, with 6,912 gallons being hazardous waste.

** The RCRA-Permitted Hazardous Waste Tank (Used Solvent) has a capacity of 20,000 gallons and may be filled to 19,000 gallons

*** This waste will be held for transfer in containers in the transfer waste area(s). There is one transfer waste area located inside the warehouse adjacent to the container storage area.

****Various D-Codes, F-Codes, K-Codes, P-Codes, U-Codes may be accepted for 10-day storage and transfer

Part I

D. Operating Information

4. Description of the Facility/Nature of the Business (40 CFR Part 270.13(m))

Safety-Kleen Systems, Inc. of Norwell, MA 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 located at the Safety-Kleen Medley facility. These tanks are used for the storage of: one (20,000-gallon) hazardous waste (used parts washer solvent), one (20,000-gallon) clean product 150 premium parts washer solvent, one (20,000-gallon) used oil, one (15,000-gallon) used oil, and one (10,000-gallon) oily water. These tanks are located inside the permitted tank storage unit. See figure 2.1-1.

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 areas. 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 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 used parts washer solvent to the branch, the material is transferred from the containers to a wet dumpster located inside the Return/Fill Shelter. Most of the 150 premium parts washer solvent used by customers will be utilized by the Branch for the washing of used parts washer containers. After used parts washer containers have been washed, the spent solvent is pumped from the wet dumpsters via piping to the RCRA-Permitted Hazardous Waste Tank (Used Solvent). Cleaned containers are filled with product 150 premium parts washer solvent in preparation for the next day's services in the Return/Fill Shelter. Periodically (approximately every 20 days), a tanker truck is dispatched from one of the Safety-Kleen TSDF’s to deliver a load of clean solvent and collect the used parts washer solvent (hazardous waste) at the Branch. Containers of clean solvent may be stored at the return/fill shelter or in the permitted storage areas. Containers of used parts washer solvent are normally transferred and dumped into the wet dumpsters each day after trucks return from services but may be stored in the permitted container storage area in the event they are not dumped after return to the branch on a specific day.

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 immersion cleaner solvent remains in the container after delivery to the Branch, where it may be stored in the 10-day transfer area, or permitted container storage area, of the warehouse. Weekly, a tractor trailer truck is dispatched from a Clean Harbors/Safety-Kleen TSDF to deliver clean immersion cleaner solvent and collect the containers of spent immersion cleaner 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 the TSDF's.

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 permitted TSDF's for reclamation and processing. Dry cleaning wastes may be managed as permitted or 10-day transfer wastes. All dry-cleaning wastes remain in their original containers while at the Medley 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 permitted Safety-Kleen/Clean Harbors TSDF for reclamation and processing. Paint wastes may be managed as permitted or 10-day transfer wastes. All paint wastes remain in their original containers while at the Medley facility.

Fluid Recovery Services (FRS) is a containerized waste service (CWS) program managed by the Safety-Kleen Medley Branch to collect and transfer various other containerized hazardous, and non-hazardous wastes to the appropriate Clean Harbors/Safety-Kleen TSDFs for processing. Hazardous wastes managed under this program are managed as 10-day transfer wastes. Examples of the types of waste that may be received from FRS customers include, but are not limited to:

- Spent hydrocarbon distillates, such as waste fuel, oil, petroleum, naphtha, etc.;
- Lubricating oils, hydraulic oils, synthetic oils, used antifreeze, and machine oils;
- Industrial halogenated solvents such as 1,1,1-trichloroethane, tetrachloroethylene, Freon, and trichloroethane;
- Photographic and x-ray related wastes, acids;
- Paint and lacquer thinners, acids/bases;
- Various returned/damaged/expired products from national retail chains. These are typical household products that may carry U-Codes due to being unused commercial chemical products;
- Other hazardous and nonhazardous halogenated and nonhalogenated wastes.

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

10-Day Transfer Storage Areas

10-day transfer container storage takes place in the main warehouse to the east of the container storage area (this area is approximately 18' x 19'4") (see figure 8.1-1 in section Part II.B). Signage clearly marks this area as 10-day transfer storage and it is separated from the permitted container storage area. If additional space is needed, transfer wastes may be stored in the permitted container storage area for short periods of time. All hazardous waste containers located in the 10-day transfer area(s) are manifested and in-transit to other permitted facilities. Safety-Kleen Medley is not the designated facility for wastes located in the 10-day transfer area(s). Safety-Kleen tracks the 10-day transfer limit through its' WINWeb (Waste Information Network) system. Transfer wastes delivered to the facility are documented into a "virtual hub" which shows the manifest number, designated facility, number of containers, and hub receipt date. In the case of Safety-Kleen Medley's transfer waste activities, the virtual hub is MFLH. All personnel have access to this database and can track the number of days each container has been at the facility. In addition, the facility waste tracking information can be accessed by running a "Hub Waste Transfer Report", and this report can be run for any time period. This report will show the generator name, EPA ID number if applicable, address, hub (transfer facility) receive date, hub (transfer facility) outbound ship date, and manifest number.

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 and off-loaded into one of the used oil storage tanks. From there, the used oil is typically transported to the Safety-Kleen Systems, Inc. Pompano Beach/Ocala oil terminal for storage until being loaded onto railcars. The used oil is then typically transported via rail to the Safety-Kleen East Chicago, IN re-refinery for processing. 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 1990, Safety-Kleen began offering a service for the collection of spent antifreeze (ethylene glycol) from automobile service stations. All antifreeze is collected by Safety-

Kleen with the intent of it being 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 Medley branch, for off-loading into dedicated storage tanks. The comingled material (used antifreeze/used oil) is sent to the SK East Chicago re-refinery where the ethylene glycol is separated by distillation. The glycol is then sent to a recycler for processing into a pure product which is then sold on the open market. This procedure is in accordance with FDEP's *the Best Management Practices for Managing Used Antifreeze at Vehicle Repair Facilites,* dated May 22, 2012. The Florida Department of Environmental Protection (FDEP) has determined this waste stream can be handled as non-hazardous as long as it is destined for recycling. If used antifreeze collected by the Safety-Kleen Medley facility is sent to a facility other than the East Chicago re-refinery it will be managed as follows. The material will be segregated and off-loaded into a separate storage container/tote, then sampled and analyzed for glycol percentage. If the glycol percentage is acceptable it is sent to a recycler. If the glycol percentage is not acceptable a representative sample will be taken and sent for TCLP analysis to determine if it is a hazardous waste. It will be managed properly according to the TCLP analysis result. 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 then shipped to SK distribution centers, and then shipped to a recycler.

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 requirements of Florida Administrative Code (FAC) 62-737.400. As a registered small quantity handler of universal waste lamps/mercury devices, the Branch can store up to 2,000 kg of lamps or 100 kg of mercury 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. All containers (boxes) are labeled in accordance with FAC 62-737.400(5)(b) and are 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 also manages universal waste 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. Universal waste lamps, mercury devices & batteries are stored inside the transfer waste areas.

Safety-Kleen offers a Vacuum Services Program. This program is for the collection of non-hazardous waste streams, both liquid and solids/sludges. The Medley branch operates this program with straight tanker trucks that hold approximately 3,500 gallons of material. The primary services offered under this program are:

- Clean-out of oil/water separators, sumps, pits, and trench drains;
- Pumping of open-top drums and other containers of material already removed from oil/water separators, sumps, pits, and trench drains;
- Pumping of other containers of material as approved on a case-by-case basis;
- Transfer of approved pre-qualified non-hazardous materials from one point to another (ex: from pit to containers). Materials collected under this program are shipped to a permitted wastewater treatment facility for processing.

Containers of hazardous waste are picked up at customer locations and transported back to the Branch in route trucks. All hazardous materials collected and transported to the Safety-Kleen Medley branch are properly packaged in USDOT authorized packages. The types of container will depend on the material, and requirements found in 49 CFR Part 173 for authorized packaging. For example:

- Used parts washer solvent – 5, 15, 30, 55-gallon containers (metal drums DM)
- Dry-cleaning wastes (Perchloroethylene) – 15, 30-gallon containers (plastic/poly drums DF)
- Dry-cleaning wastes (Petroleum-Naphtha) – 15,30-gallon containers (metal drums DM)
- Paint Related wastes – 5, 15, 30, 55-gallon containers (metal drums DM)
- Immersion Cleaner wastes – 15-gallon containers (metal drums DM)
- Used Antifreeze – 55-gallon containers (metal drums DM, or poly drums DF)

Transfer wastes are containerized and transported after identifying the proper shipping name and consultation with authorized packaging requirements found in 49 CFR Part 173.

Each route truck is equipped with a hand-truck and electric lift gate for movement of containers. Upon arrival at the Branch, containers are off-loaded at the docks (Areas A&B, figure 2.1-1) from route trucks and placed on pallets. Containers of used parts washer solvent are unloaded at Area A, then staged on the Return/Fill Shelter dock awaiting dumping by hand into the wet dumpster, then drum washing. As used parts washer drums are dumped into the wet dumpster the used parts washer solvent is transferred via piping to the RCRA-Permitted Hazardous Waste Tank (Used Solvent). All other containerized wastes are moved from the unloading areas on pallets to the appropriate permitted storage area(s) or 10-day transfer waste area(s). Forklifts are used for loading containerized hazardous/non-hazardous wastes onto the weekly tractor trailer truck for transfer to Clean Harbors/Safety-Kleen TSDF's. These containers will be moved directly onto the truck, which will be parked at the concrete loading dock on the southeastern corner of the warehouse building (Area B, figure 2.1-2).

Part 1

D. Operating Information

5. Hazardous Debris (40 CFR Part 270.13(n))

The Safety-Kleen Medley branch does not treat, store, or dispose of any hazardous debris, as defined in 40 CFR Part 268.2(g), at the facility.

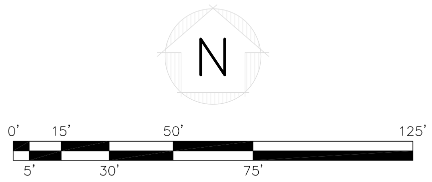
Personal Protective Equipment (PPE) Requirements at the Branch

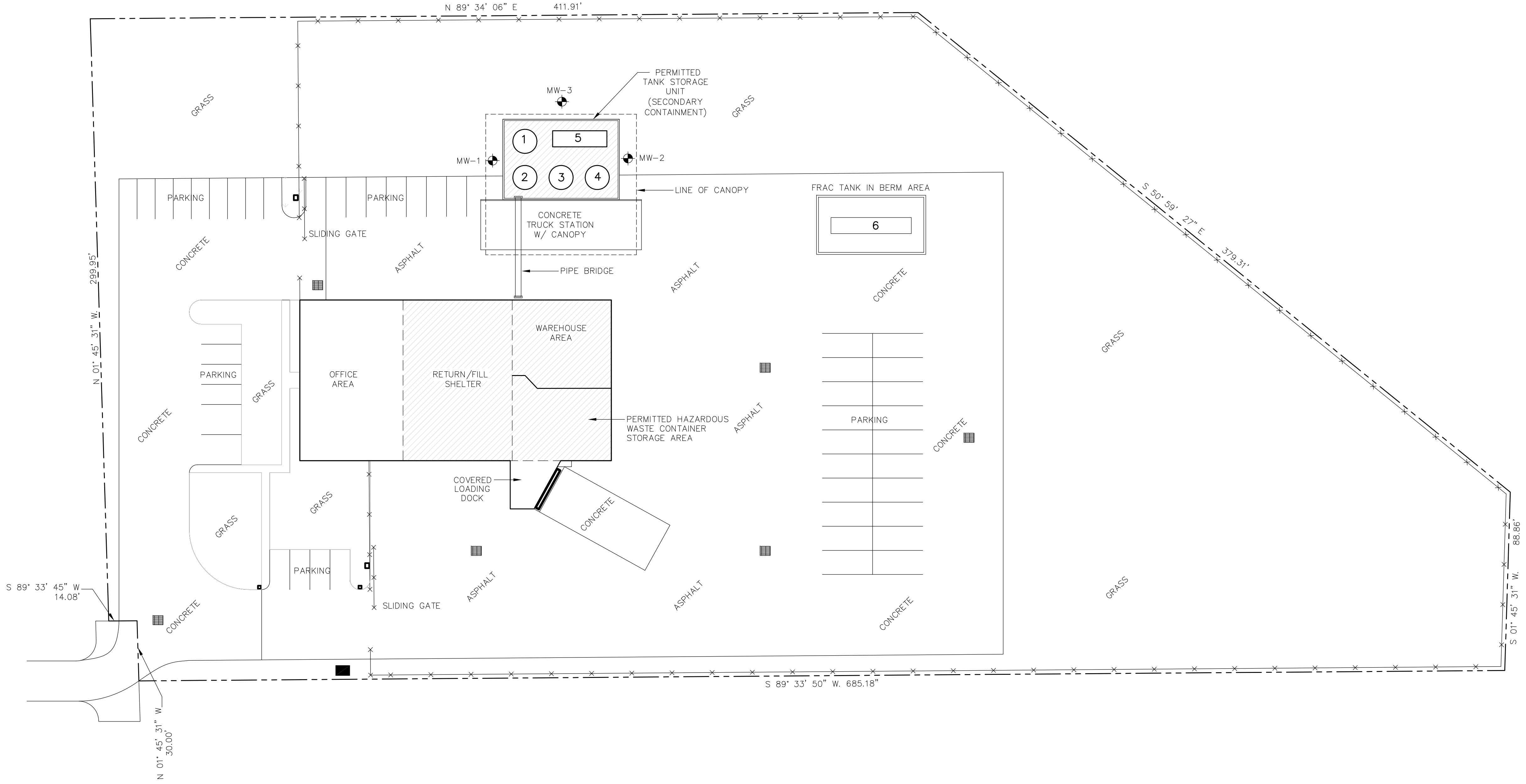
The following PPE is required for all persons working at or visiting the branch.

Task	Gloves	Uniform	Apron	Foot Wear	Safety Glasses	Hard Hat	Hearing	Respirator
Material handling-containers (bulk/non-bulk)	Yes (Cr)*	Yes		ST w/M	Yes	Yes		
Return/Fill Operations	Yes (Np)	Yes	Yes	ST w/M	Yes	Yes	Yes w/pneumatic tools	
Tank Truck Load/Unload	Yes (Np)	Yes		ST w/SR	Yes	Yes		
Spill Response (incidental)	Yes (Np)	Yes	Yes	ST w/SR	Yes	Yes		APR-HF/FF/Org. vapor/acid gas
Visitor in Operational areas				Closed toe	Yes	Yes		

Gloves: Cr = cut resistant, (Cr)* = cut resistant (if chemical present – supported Neoprene glove,
Np = Supported Neoprene Glove (outer)
Hard Hat: hard hats to be available at all times, and used when in operational areas
Apron: Tychem QC apron
Footwear: ST w/M = steel toes with metatarsal guard, ST w/SR = steel toes with slip resistant soles
Respirator/Cartridge Type: APR (air purifying respirator) HF (half face) FF (full face) Organic vapor/acid gas – cartridge type

Safety-Kleen constructed the Medley 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.





LEGEND

— - - —	PROPERTY BOUNDARY
—×—×—	CHAIN LINK FENCELINE
▨	
▭	EXISTING ABOVE GROUND STORAGE TANKS
○	
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN

GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

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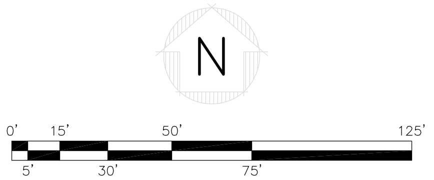
TITLE

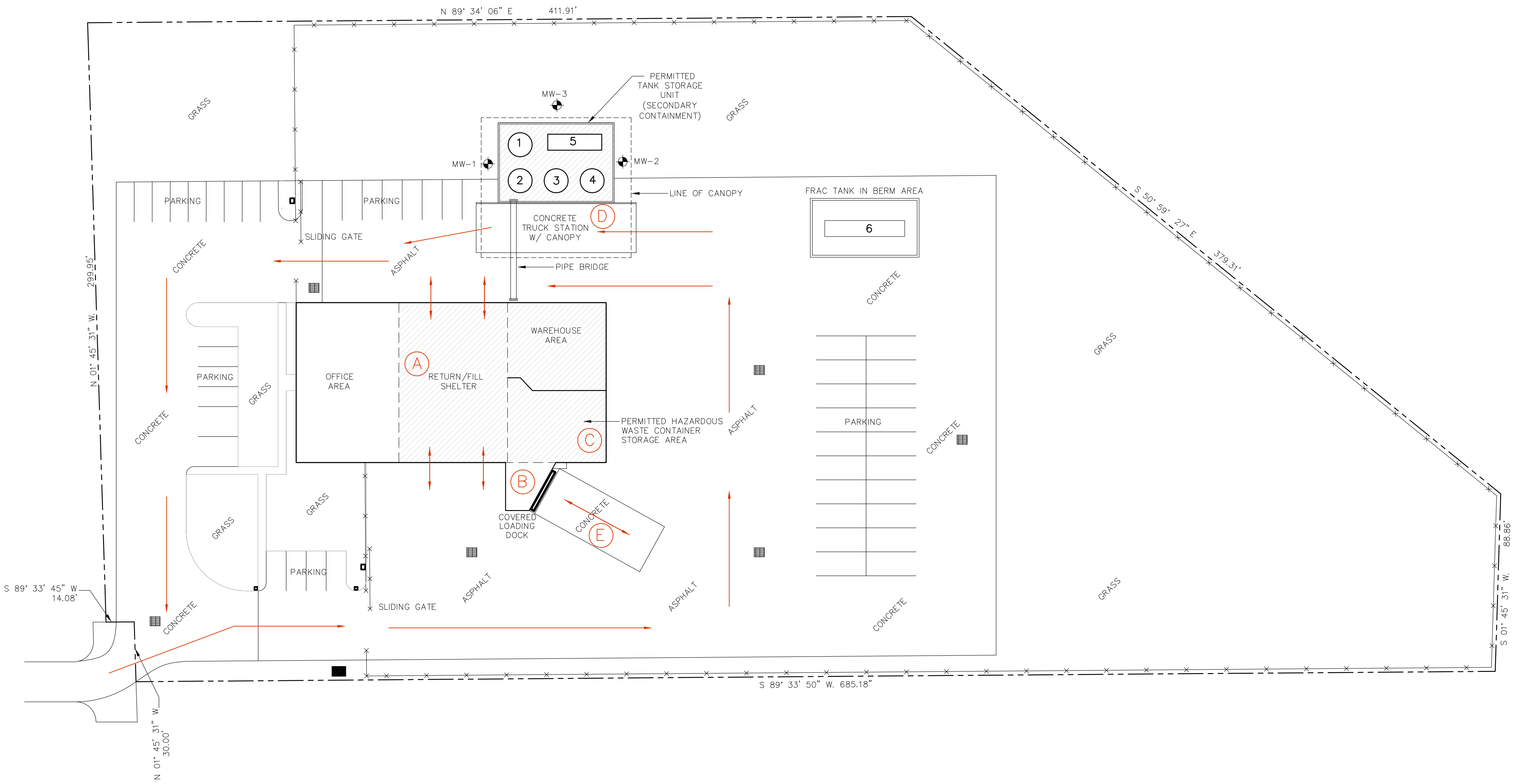
FIGURE 2.1-1
FACILITY LAYOUT & ACCESS CONTROL FEATURES

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL	7096-SP00-001	A





GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

LEGEND

— - — -	PROPERTY BOUNDARY
—×—×—	CHAIN LINK FENCELINE
▨	HAZARDOUS WASTE MANAGEMENT AREAS
▭ ○	EXISTING ABOVE GROUND STORAGE TANKS
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN
Ⓐ	PARTS WASHER SOLVENT DRUM DUMP/BARREL WASH/REFILL (TRUCKS DO NOT DRIVE THROUGH BLDG.
Ⓑ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTES FRS (TRANSFER) FROM TRUCKS
Ⓒ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTE FROM LOCAL AREA VANS AND TRUCKS
Ⓓ	LOADING AND UNLOADING OF PARTS WASHER SOLVENT (COVERED DRIVEWAY) USED OIL AND OILY WASTEWATER
Ⓔ	LOADING CONTAINERIZED WASTE FROM TRUCKS FOR SHIPMENT TO RECYCLE CENTERS

PROPRIETARY STATEMENT

TITLE

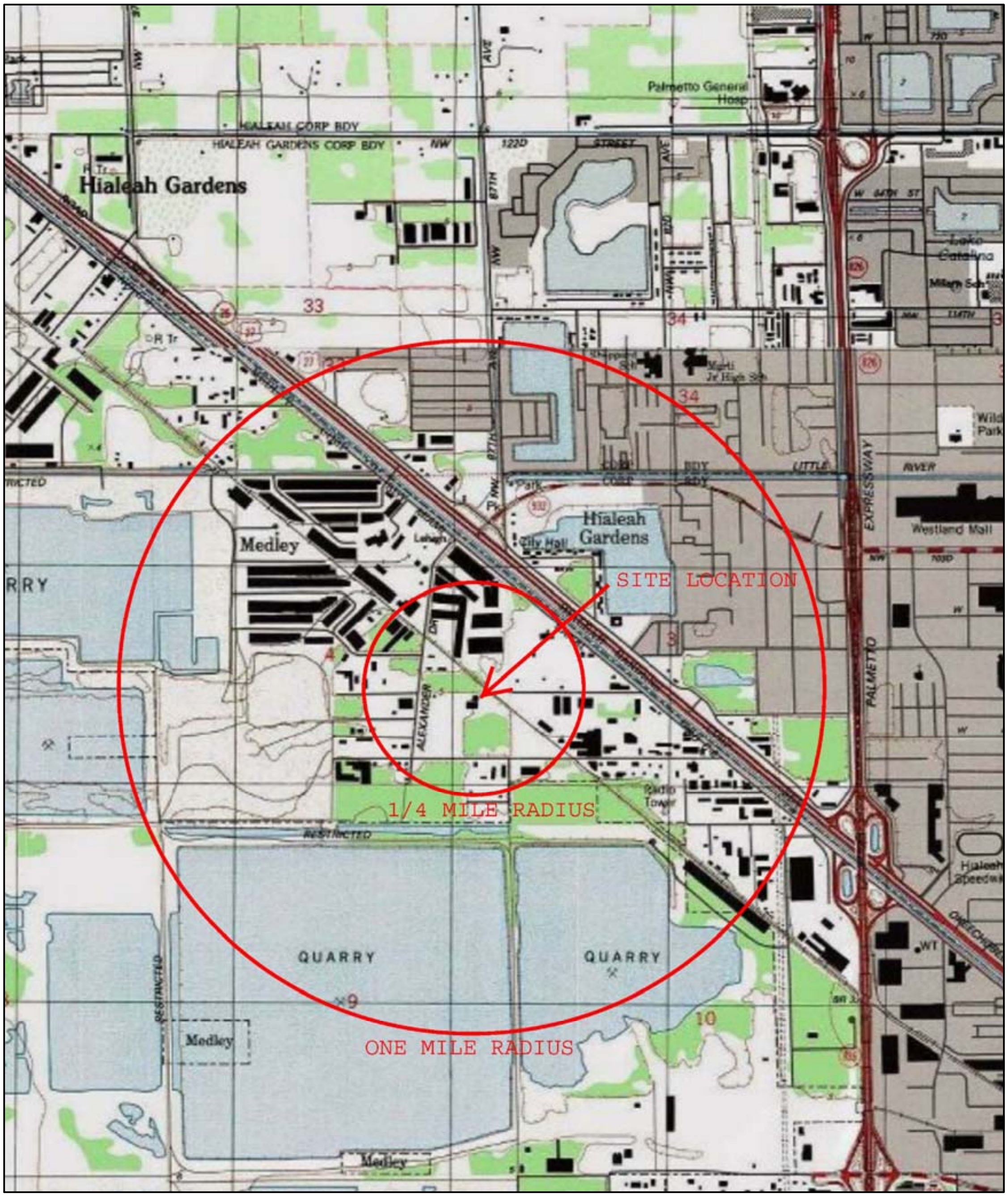
FIGURE 2.1-2
TRUCK TRAFFIC PATTERNS

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL	7096-SP00-001	A

051096



HIALEAH QUADRANGLE
FLORIDA–DADE COUNTY
7.5 MINUTE SERIES TOPOGRAPHIC 1998

PROPRIETARY STATEMENT

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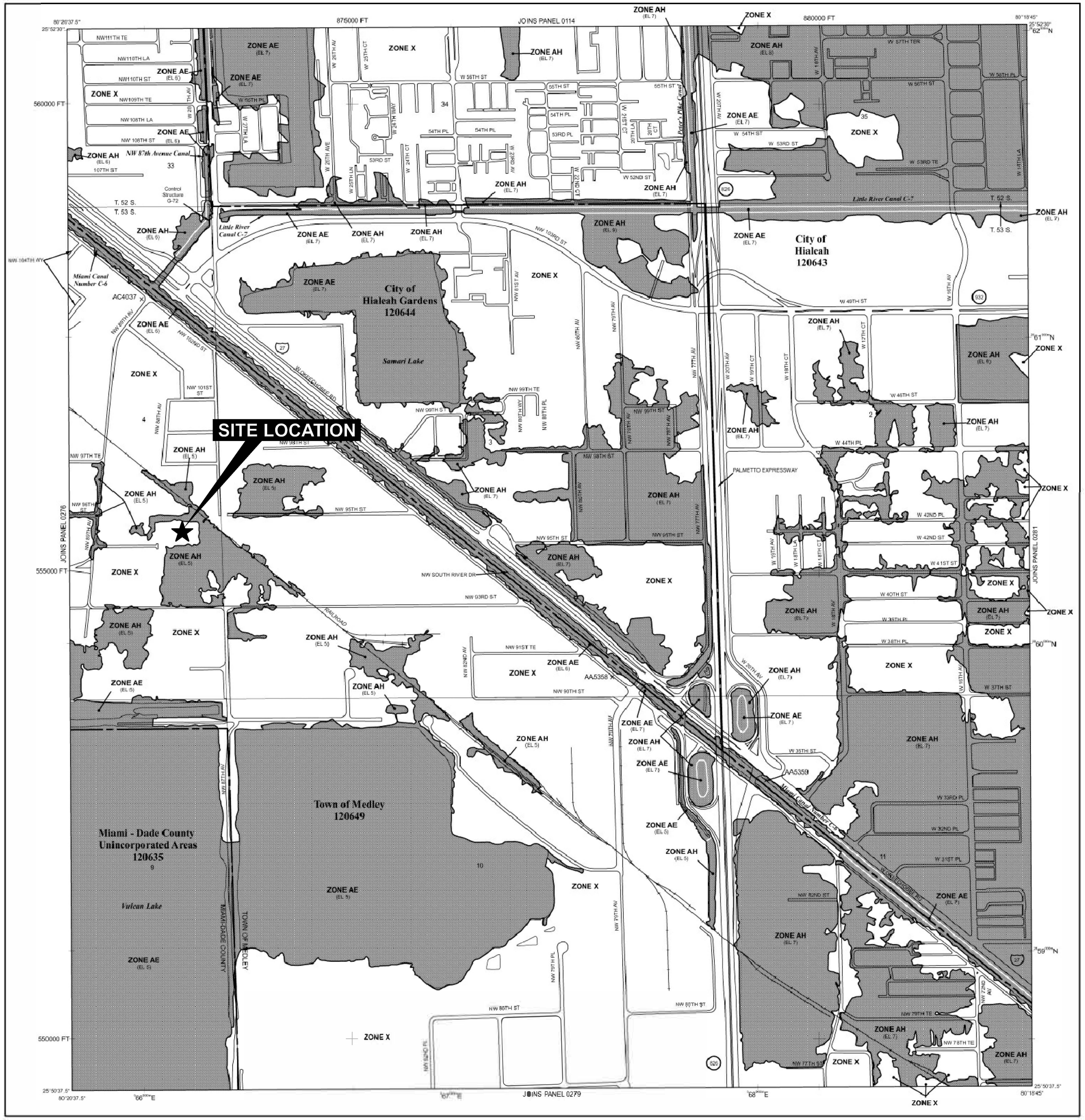
FIGURE 2.2–1
TOPO MAP

SAFETY–KLEEN SYSTEMS, INC.
2600 N. CENT EXPRESSWAY STE 400 RICHARDSON, TX. 75080
PHONE 800–669–5740

SCALE	BY	CHKD	APPR	OP. APPR	DATE
NONE	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL.	7096–SP00–026	A

FIGURE 2.2-2
SITE LOCATION MAP
SAFETY-KLEEN SYSTEMS, INC. FACILITY
MEDLEY, FLORIDA



LEGEND

▨ **SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

▨ **FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

▨ **OTHER FLOOD AREAS**

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

☐ **OTHER AREAS**

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

▨ **COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

▨ **OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

———————	Floodplain boundary
— — —	Floodway boundary
– — — –	Zone D boundary
•••••••••••••••	CBRS and OPA boundary
▬	Boundary dividing Special Flood Hazard Area zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
~~ 513 ~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the National Geodetic Vertical Datum of 1929

Ⓐ———Ⓐ	Cross section Line
㉓- - - - - -㉓	Transect line
87°07'45", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
${}^{42}76^{000}$N	1000-meter Universal Transverse Mercator grid values, zone 17
600000 FT	5000-foot grid ticks: Florida State Plane coordinate system, East zone (FIPSZONE 0901), Transverse Mercator projection
●X5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
●M1.5	River Mile

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0277L

FIRM
FLOOD INSURANCE RATE MAP

MIAMI-DADE COUNTY, FLORIDA
AND INCORPORATED AREAS

PANEL 277 OF 1031

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HIALEAH GARDENS, CITY OF	120644	0277	L
HIALEAH, CITY OF	120643	0277	L
MEDLEY, TOWN OF	120649	0277	L
MIAMI - DADE COUNTY	120635	0277	L

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
12086C0277L

MAP REVISED
SEPTEMBER 11, 2009

Federal Emergency Management Agency

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
January 20, 1993

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
March 2, 1994 - May 16, 1994 - July 17, 1995 - for description of revision, see Notice to Users page in the Flood Insurance Study report.
September 11, 2009 - to reflect revised shoreline, to incorporate previously issued Letters of Map Revision, to reflect updated topographic information, to update corporate limits, to add and change Base Flood Elevations, to change zone designations, to add roads and road names, and to add and change Special Flood Hazard Areas.

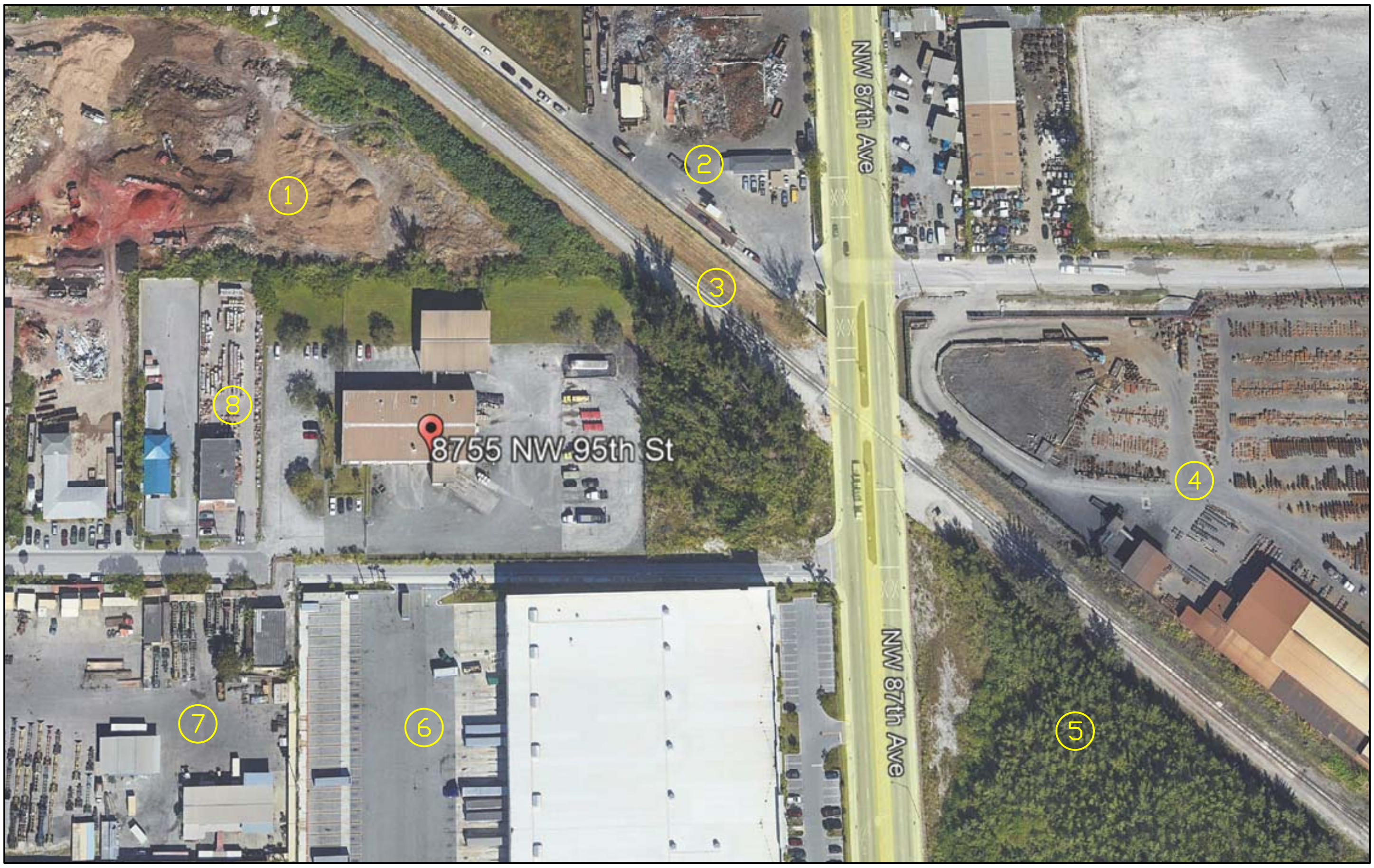
For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

N

MAP SCALE 1" = 500'

250	0	500	1000	FEET
150	0	150	300	METERS



ADJACENT PROPERTY OWNERS	LAND USE
1. FLORIDA WOOD/MEDLEY METAL RECYCLING	WOOD/METAL RECYCLING FACILITY
2. EAGLE METAL PROCESSING	METAL PROCESSING & RECYCLING
3. FLORIDA EAST COAST RR CO.	RAILROAD ASSESSMENT
4. US FOUNDRY	HEAVY INDUSTRIAL
5. US FOUNDRY	VACANT LAND/PARKING
6. PEPSICO	FOOD/BEVERAGE MANUFACTURING
7. TROPICAL TRAILER LEASING	TRAILER LEASE/STORAGE FACILITY
8. SANTAFE TILE	TILE COMPANY WAREHOUSE

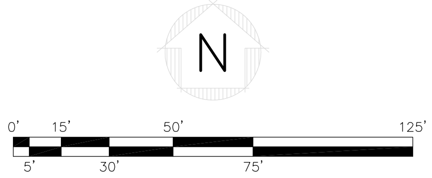
PROPRIETARY STATEMENT

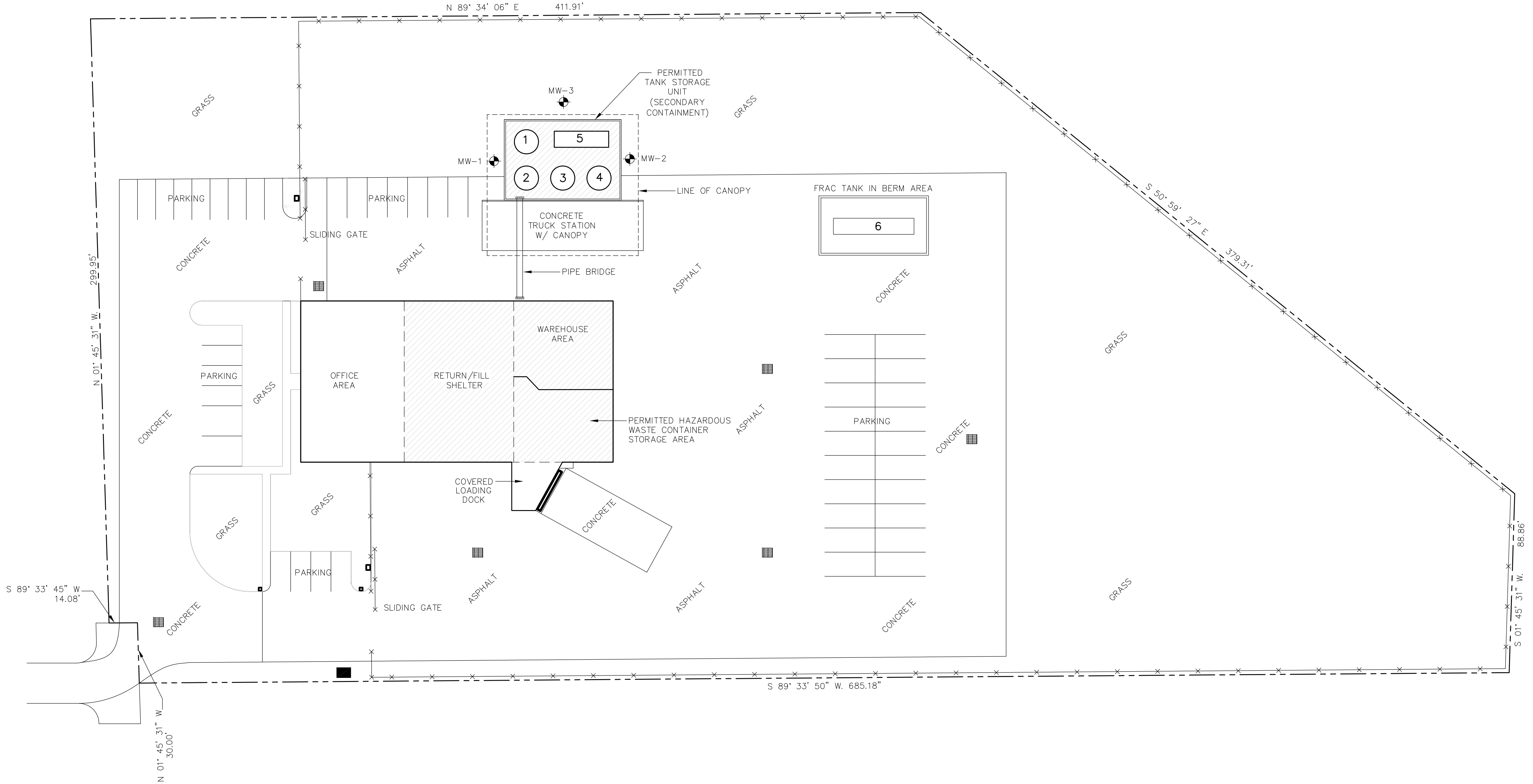
FIGURE 2.2–3
SURROUNDING LAND USE MAP

SAFETY–KLEEN SYSTEMS, INC.
2600 N. CENT EXPRESSWAY STE 400 RICHARDSON, TX. 75080
PHONE 800–669–5740

SCALE	BY	CHKD	APPR	OP. APPR	DATE
NONE	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL.	7096–SP00–028	A





LEGEND

— - - —	PROPERTY BOUNDARY
×—×—×	CHAIN LINK FENCELINE
▨	
▭ ○	EXISTING ABOVE GROUND STORAGE TANKS
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN

GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

PROPRIETARY STATEMENT

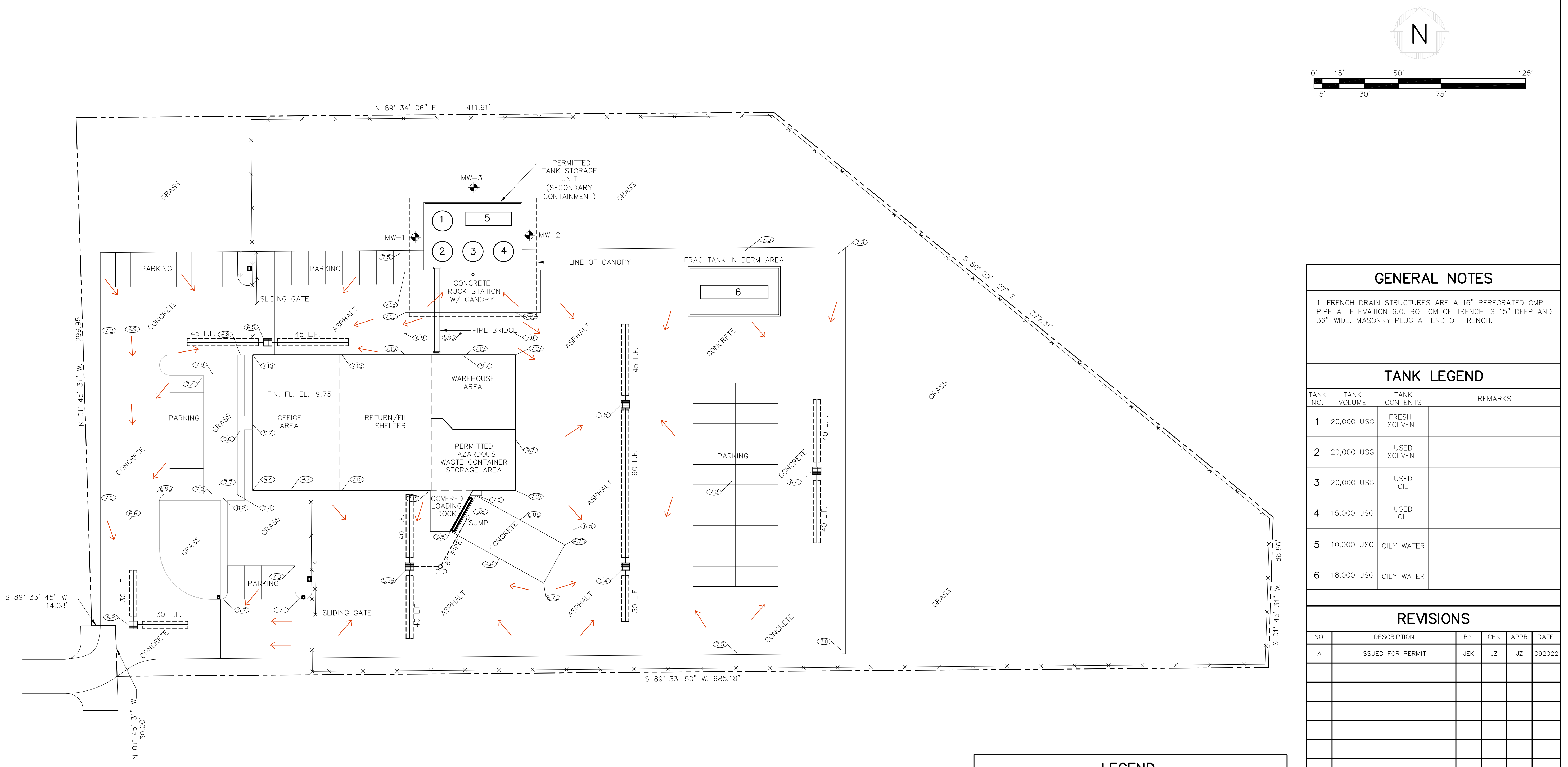
TITLE

FIGURE 2.2-4
LEGAL BOUNDARIES

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL	7096-SP00-001	A



LEGEND

— - —	PROPERTY BOUNDARY
—×—×—	CHAIN LINK FENCELINE
▭ ○	EXISTING ABOVE GROUND STORAGE TANKS
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN
45 L.F. ▭	FRENCH DRAIN TRENCH CONNECTED TO STORM WATER CATCH BASINS
6.25	EXISTING ELEVATION
←	STORM WATER FLOW

GENERAL NOTES

1. FRENCH DRAIN STRUCTURES ARE A 16" PERFORATED CMP PIPE AT ELEVATION 6.0. BOTTOM OF TRENCH IS 15" DEEP AND 36" WIDE. MASONRY PLUG AT END OF TRENCH.

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

PROPRIETARY STATEMENT

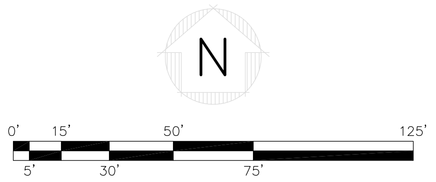
TITLE

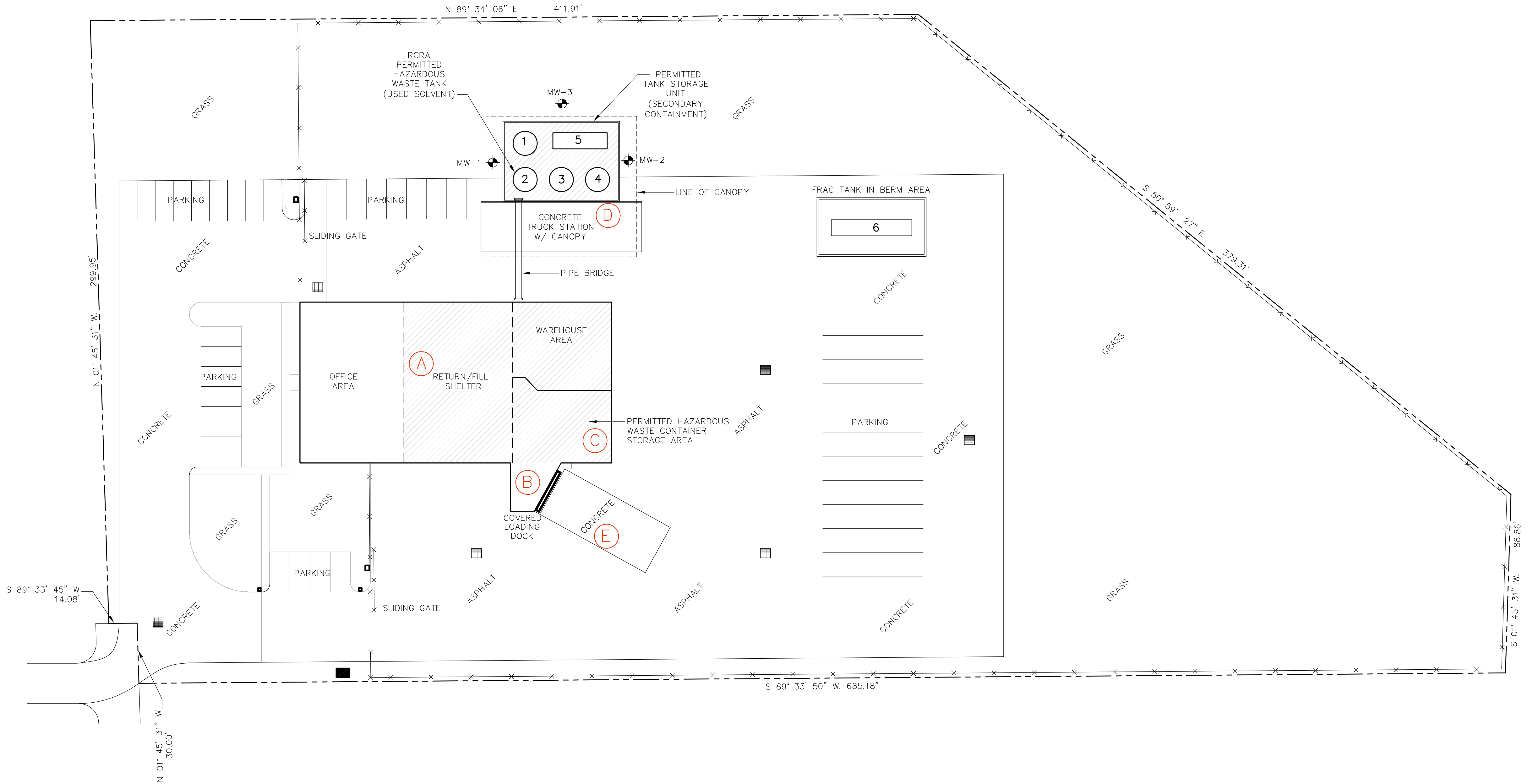
FIGURE 2.2-5
SITE STORM WATER DRAINAGE

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL	7096-SP00-001	A





GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

PROPRIETARY STATEMENT

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TITLE

FIGURE 2.2-6
LOCATIONS OF HAZARDOUS WASTE STORAGE AREAS

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL	7096-SP00-001	A

LEGEND

—— - - ——	PROPERTY BOUNDARY
×——×——×	CHAIN LINK FENCELINE
▨	HAZARDOUS WASTE MANAGEMENT AREAS
▭ ○	EXISTING ABOVE GROUND STORAGE TANKS
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN

Ⓐ	PARTS WASHER SOLVENT DRUM DUMP/BARREL WASH/REFILL (TRUCKS DO NOT DRIVE THROUGH BLDG.
Ⓑ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTES FRS (TRANSFER) FROM TRUCKS
Ⓒ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTE FROM LOCAL AREA VANS AND TRUCKS
Ⓓ	LOADING AND UNLOADING OF PARTS WASHER SOLVENT (COVERED DRIVEWAY) USED OIL AND OILY WASTEWATER
Ⓔ	LOADING CONTAINERIZED WASTE FROM TRUCKS FOR SHIPMENT TO RECYCLE CENTERS

051096

cli-MATE
MRCC APPLICATION
TOOLS ENVIRONMENT

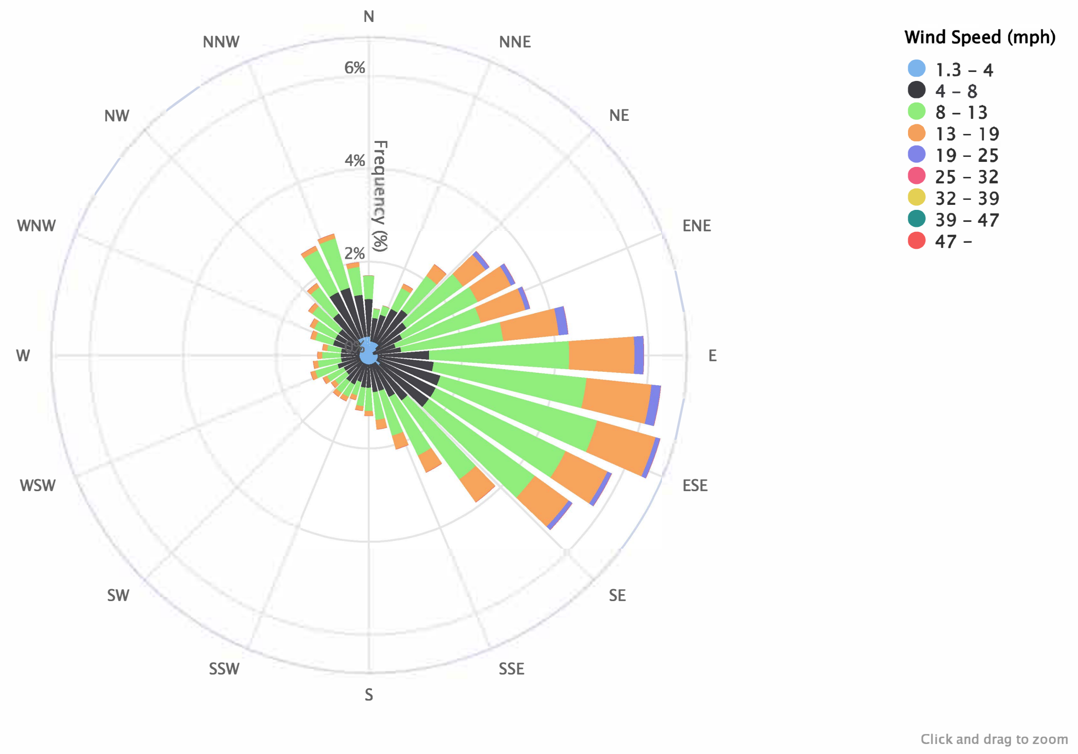
FIGURE 2.2-7
WIND ROSE
SAFETY-KLEEN SYSTEMS, INC. FACILITY
MEDLEY, FLORIDA
WIND ROSE OBTAINED FROM CLIMATE.GOV WEBSITE
WIND ROSE BASED ON PERIOD FROM 1/1/1991 TO 9/1/22
WIND ROSE GENERATED ON 9/1/22

MRCC
Midwestern Regional
Climate Center

Privacy Policy

MIAMI INTL AP (FL) Wind Rose

Jan. 1, 1991 – Sep. 1, 2022
Sub-Interval: Jan. 1 – Dec. 31, 0 – 23



MIAMI INTL AP (FL) - Wind Frequency Table (percentage)

Latitude : 25.7906
Longitude : -80.3164
Elevation : 29 ft.
Element : Mean Wind Speed

Start Date : Jan. 1, 1991
End Date : Sep. 1, 2022
# of Days : 11567 of 11567
obs : poss : 263354 of 277608

Sub Interval Windows

	Start	End
Date	Jan. 1	Dec. 31
Hour	0	23

(Greater than or equal to initial interval value and Less than ending interval value.)

Range (mph)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	Total

Florida Department
of Environmental Protection

Map Direct AIR (Area of Interest Report)
Standard Map

Point of Interest:
25°51'37.9457" x -80°20'24.8363"
25.860540474048182 x -80.34023230911245
Search Radius: 1 mile
Report Created on Thu Jul 14 2022 at 11:43:37
Map Direct v7.220630

Township/Range/Section: 53S40E4
Medley, Miami-Dade County 33178
FDEP Regulatory District: Southeast District
Water Management District: SFWMD
FL House District 103 :: FL Senate District 36
US Congressional District 25
HUC Basin Area: Florida Southeast Coast
Waterbody ID: 3290
State Land DM ID: 139211

Search Result Summary

Features Found	***Data Layer***	***Metadata***	***Spreadsheet***
1	Wastewater Facility Regulation (WAFR) - Wastewater Facilities	Layer Information	Download as Spreadsheet
0	Wastewater Facility Regulation (WAFR) - Wastewater Sites	Layer Information	--
5	Underground Injection Control (UIC) Class V Non-ASR Wells	Layer Information	Download as Spreadsheet
0	Underground Injection Control (UIC) Class V ASR Wells	Layer Information	--
1	Underground Injection Control (UIC) Class I Wells	Layer Information	Download as Spreadsheet
0	Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal)	Layer Information	--
0	Ground Water Contamination Areas	Layer Information	--
0	Public Water Supply (PWS) Plants (Non-Federal)	Layer Information	--

0	Public Water Supply (PWS) Wells (Non-Federal)	Layer Information	--
0	Private Wells from Generalized Well Information System (GWIS)	Layer Information	--

---

Search Result Details

Wastewater Facility Regulation (WAFR) - Wastewater Facilities: 1 Found.

#1 of 1 from Wastewater Facility Regulation (WAFR) - Wastewater Facilities

LOCATIONAL ID	25305
WAFR FACILITY ID	36546
FACILITY ID	FLG110614
FACILITY NAME	Quickcrete Ready Mix
ENVIRONMENTAL INTEREST	Industrial Wastewater Program
MANAGED ENTITY TYPE	Wastewater Facility
FACILITY TYPE	CBP
FACILITY STATUS	A
NPDES	Y
DESIGN CAPACITY	
PERMITTED CAPACITY	
PRETREAT REQ	N
OFFICE NAME	Southeast District
DISTRICT NAME	SED
COUNTY	13
COUNTY NAME	Miami-Dade
QA STATUS	REVIEWED
LAT DD	25
LAT MM	51
LAT SS	24.7219
LONG DD	80
LONG MM	20
LONG SS	22.2212
DCD DATUM ID	HARN
DETERMINATION DATE	02/27/2007
CMCD COORDINATE METHOD ID	DPHO
COLLECTOR USERNAME	LAKHAN_S
CAC1 COORDINATE ACCURACY ID	4
OOIC OBJECT OF INTEREST ID	Facility
VERIFICATION DATE	02/27/2007
VERIFY CMCD METHOD ID	DPHO
VERIFIER USERNAME	LAKHAN_S
PPC POINT PROXIMITY ID	CENTR

DOCUMENTS	Open Web Page (https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FLG110614/gis-facility!search)
OBJECTID	1658

Underground Injection Control (UIC) Class V Non-ASR Wells: 5 Found.

#1 of 5 from Underground Injection Control (UIC) Class V Non-ASR Wells

FACILITY ID	104003
FACILITY NAME	SHELL OIL PRODUCTS COMPANY
FACILITY TYPE	CLASS V INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	F&Z II CORPARATION-SHELL SERVICE STATION
CITY	HIALEAH
ZIP5	33016
ZIP4	
WELL NUMBER	SWD1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	STORMWATER DRAINAGE WELL
TOTAL WELL DEPTH	
TOTAL CASING DEPTH	
CONSTRUCTION COMPLETED DATE	
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Non-ASR Class V Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	52
LAT SS	6
LONG DD	80
LONG MM	20
LONG SS	36
DATUM ID	NAD83
COORDINATE METHOD ID	DMAP
ACCURACY LEVEL	6
ACCURACY	50 - 999.99 meters
QA STATUS	NOT REVIEWED
OBJECTID	18459

#2 of 5 from Underground Injection Control (UIC) Class V Non-ASR Wells

FACILITY ID	62709
FACILITY NAME	PALMS SPRINGS GDN. CONDOMINIUM APTS
FACILITY TYPE	CLASS V INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	NW 103RD ST. & 80TH AVE.
CITY	MIAMI
ZIP5	
ZIP4	
WELL NUMBER	1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	SWIMMING POOL DRAINAGE WELL
TOTAL WELL DEPTH	85
TOTAL CASING DEPTH	0
CONSTRUCTION COMPLETED DATE	10/18/1984
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Non-ASR Class V Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	52
LAT SS	6.0839
LONG DD	80
LONG MM	19
LONG SS	37.6315
DATUM ID	NAD83
COORDINATE METHOD ID	DPHO
ACCURACY LEVEL	4
ACCURACY	11 - 20 meters
QA STATUS	REVIEWED
OBJECTID	9456

#3 of 5 from Underground Injection Control (UIC) Class V Non-ASR Wells

FACILITY ID	60453
FACILITY NAME	AL CRAFT INDUSTRIES
FACILITY TYPE	CLASS V INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	9869 NW 79TH AVE.
CITY	HIALEAH
ZIP5	
ZIP4	
WELL NUMBER	1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	A/C RETURN-FLOW WELL (CLOSED-LOOP,NO ADDITIVES)
TOTAL WELL DEPTH	0

#4 of 5 from Underground Injection Control (UIC) Class V Non-ASR Wells

FACILITY ID	104323
FACILITY NAME	MIGUEL GONZOLEZ
FACILITY TYPE	CLASS V INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	1110 BRICKELL AVENUE
CITY	MIAMI
ZIP5	33131
ZIP4	
WELL NUMBER	SWD1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	SWIMMING POOL DRAINAGE WELL
TOTAL WELL DEPTH	

TOTAL CASING DEPTH	0
CONSTRUCTION COMPLETED DATE	07/20/1984
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Non-ASR Class V Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	51
LAT SS	46.2494
LONG DD	80
LONG MM	19
LONG SS	30.4812
DATUM ID	NAD83
COORDINATE METHOD ID	DPHO
ACCURACY LEVEL	4
ACCURACY	11 - 20 meters
QA STATUS	REVIEWED
OBJECTID	6935

TOTAL CASING DEPTH	
CONSTRUCTION COMPLETED DATE	
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Non-ASR Class V Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	51
LAT SS	47
LONG DD	80
LONG MM	19
LONG SS	42
DATUM ID	NAD83
COORDINATE METHOD ID	DMAP
ACCURACY LEVEL	6
ACCURACY	50 - 999.99 meters
QA STATUS	NOT REVIEWED
OBJECTID	18605

#5 of 5 from Underground Injection Control (UIC) Class V Non-ASR Wells

FACILITY ID	62880
FACILITY NAME	RAINBOW STUDIO
FACILITY TYPE	CLASS V INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	5850 LEVATE
CITY	CORAL GABLES
ZIP5	
ZIP4	
WELL NUMBER	1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	A/C RETURN-FLOW WELL (CLOSED-LOOP,NO ADDITIVES)
TOTAL WELL DEPTH	0
TOTAL CASING DEPTH	0
CONSTRUCTION COMPLETED DATE	11/15/1984
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Non-ASR Class V Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	51
LAT SS	48.334
LONG DD	80
LONG MM	19
LONG SS	35.2207
DATUM ID	NAD83
COORDINATE METHOD ID	DMAP
ACCURACY LEVEL	6
ACCURACY	50 - 999.99 meters
QA STATUS	REVIEWED

OBJECTID	10016

Underground Injection Control (UIC) Class I Wells: 1 Found.

#1 of 1 from Underground Injection Control (UIC) Class I Wells

FACILITY ID	101022
FACILITY NAME	MEDLEY LANDFILL - WASTE MANAGEMENT INC.
FACILITY TYPE	CLASS I INJECTION WELLS
FACILITY STATUS	ACTIVE
ADDRESS	9350 NW 89TH AVE
CITY	MEDLEY
ZIP5	33178
ZIP4	1402
WELL NUMBER	IW-1
WELL STATUS	ACTIVE
INJECTION WELL TYPE	INDUSTRIAL WASTEWATER WELL
TOTAL WELL DEPTH	3512
TOTAL CASING DEPTH	2778
CONSTRUCTION COMPLETED DATE	05/08/2014
DISTRICT	SED
OFFICE	
COUNTY	13
COUNTY NAME	MIAMI-DADE
OBJECT OF INTEREST	Class I Injection Well
PROXIMITY ID	APPRX
LAT DD	25
LAT MM	51
LAT SS	33
LONG DD	80
LONG MM	20
LONG SS	36.5136
DATUM ID	NAD83
COORDINATE METHOD ID	ZIP4
ACCURACY LEVEL	6
ACCURACY	50 - 999.99 meters
QA STATUS	REVIEWED
OBJECTID	373

No Results Found:
Ground Water Contamination Areas
Private Wells from Generalized Well Information System (GWIS)
Public Water Supply (PWS) Plants (Non-Federal)
Public Water Supply (PWS) Wells (Non-Federal)
Source Water Assessment and Protection Program (SWAPP) Ground Water Areas (Non Federal)
Underground Injection Control (UIC) Class V ASR Wells
Wastewater Facility Regulation (WAFR) - Wastewater Sites

*** END OF REPORT ***

Tab 2

Part II

Part II

A. General

1. Topographic Map

Figure 2.2-1, found at the end of Part I, is a USGS topographic map showing the facility location, 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.

Contours Sufficient to Show Surface Water Flow

Figure 2.2-5, found at the end of Part I, shows surface elevations at the facility. The site is nearly flat, with surface elevations in unpaved areas ranging from 4.7 to 5.1 feet above mean sea level. Paved areas are at slightly higher elevations. Anticipated surface water flow directions are shown on Figure 2.2-5.

100-Year Floodplain Area

Based on information available (Figure 2.2-2), the facility does not lie within the 100-year shallow flooding where depths are between one and three feet. Base flood elevations are shown, but no flood hazard factors are determined. No special flood management procedures are necessary.

Access Control (fences, gates, etc.)

Figure 2.1-1, found at the end of Part I, shows access control features (e.g., fences, gates, doors, roll-up doors, etc.).

On-site and off-site Injection and Withdrawal Wells

There are no injection or withdrawal wells on site. Results of an inventory of wells within one-quarter mile of the site are presented in Table 2.2-1.

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 at http://ca.dep.state.fl.us/mapdirect/?focus=none is found on Table 2.2-1, is found at the end of Part I.

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 unnamed lakes to the northeast and southeast. These surface water bodies are depicted in Figure 2.2-1.

Buildings and Other Structures

Figure 2.1-1, found at the end of Part I, shows on-site buildings and other structures.

Loading and Unloading Areas

Figure 2.1-2, found at the end of Part I, shows loading and unloading areas in relation to the waste management areas.

Hazardous Waste Units

Figure 2.2-6, found at the end of Part I, shows hazardous waste management units. Figure Part II-Q, found at the end of Part II Q, shows the location of SWMUs.

Run-Off Control System

Stormwater run-off controls are illustrated in Figure 2.2-5. Stormwater drainage from the paved portion of the facility is routed by sloped pavement to a series of six catch basins connected to separate French drain systems. As shown in Figure 2.2-5, French drain piping exists at strategic locations within the facility pavement. Stormwater drainage from unpaved portions of the facility follow natural drainage patterns leading off site. Various other surface water management features are shown in Figure 2.2-5 as well.

1.b Wind Rose

A wind rose for Miami, Florida is shown in Figure 2.2-7 found at the end of Part I.

1.c Traffic Information

Site traffic patterns are illustrated in Figure 2.1-2, found at the end of Part I. The majority of the vehicular traffic and loading/unloading operation occurs at the loading areas (Areas A, B, D and E), which are paved with asphalt and concrete. Area D is used for the loading/unloading of clean parts washer solvent and hazardous waste parts washer solvent from tanker trucks, and also loading/unloading of used oil from bulk used oil collection trucks. Approximately once per week a tractor trailer removes containerized waste for transfer to a Safety-Kleen or Clean Harbors TSDF. This truck backs up to the concrete dock, located on the southeastern side of the facility in Area B, to load waste containers and unload product for the Safety-Kleen branch.

Currently, the Safety-Kleen branch actively operates with three (3) route box trucks, two (2) bulk used oil collection tanker trucks, one (1) vacuum services tanker truck and two (2) sales vans. Clean Harbors Technical Services operates with one (1) route box trucks.

Access to, and exit from, the facility is only provided by two gates that are both on the western side of the facility, as shown on Figure 2.1-2. There are no traffic control signals, designated traffic lanes, or stacking lanes within the site. The site road surface is asphalt as shown on Figure 2.1-2

U.S. 27, Okeechobee Road, is the major access road to the facility. This 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 facility route trucks that travel the routes between the branch and customers use the two-lane road within the industrial park.

Traffic from this facility is not expected to have a major effect on local traffic conditions. The facility and adjacent facilities have been in operation since at least 1992. The roads have been able to sustain the loads being transported over them since operations began.

Part II

A. General

2. FINANCIAL RESPONSIBILITY INFORMATION

A.2.a Per 40 CFR Part 264.142, the most recent closure cost estimates are provided at the end of this section. Financial assurance is provided through the use of a financial test specified in Subpart H of 40 CFR Part 264.143.

A.2.d A copy of the document to demonstrate liability coverage, per 40 CFR Part 264.147, is provided at the end of this section.

A.3 Flood Map

This information is provided in Part I, Figure 2.2-2.

A.4 Facility Security Information

A.4a In accordance with 40 CFR Part 264.14, access to the facility is controlled through the following methods:

1. A chain link fence topped with barbed wire completely surrounds the active portion of the facility. Entry to the facility is provided by two (2) gates that are both on the western side of the site, and one (1) front door that leads into the office area. The gates are kept locked at all times unless there are authorized vehicles entering/leaving the facility. The front door leads to a small lobby, which contains a second door for entry into the office area.
2. Signs are posted at the entrance of the facility and along the fence line so that they are visible from any approach at 25 feet. Signs are marked “DANGER – UNAUTHORIZED PERSONNEL KEEP OUT”.

3. The combination of signage and controlled access entrances prevents unknowing entry and minimizes the potential for unauthorized entry of persons, or livestock, into the facility. See Figure 2.1-1 at the end of Part I for detail.

Table 1. Closure Cost Estimate Worksheet, Safety-Kleen Medley, FL 2022 8/12/2022

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
1. INVENTORY REMOVAL				
Assumptions			**Capacity (gallons)**	
- Waste mineral spirits tank(s) is full				
-Tank One			20000	
-Tank Two (IF APPLICABLE)			0	
	Total Tank Capacity		20000	
- Return/Fill station is full				
-Maximum capacity of drum washers added to waste mineral spirits tank quantity			1008	
- Container storage area(s) full				
-CSA 1			6912	
-CSA 2 (IF APPLICABLE)			0	
	Total CSA Capacity		6912	
Subcontractor Costs				
- Transfer tank contents to tankers				
Tank Capacity (total gallons)			21008	
Work Rate to Unload Tank Capacity (hours per gallon)			0.0003	
Total Hours to Unload			6.3	
Labor and equipment rate to unload (PPE Level D) and cost	Labor/equipment	$175.95	6.3	$1,109
- Transport waste mineral spirits to a TSD for treatment/disposal				
Number of tanker trailers required (6,000 gallons max each load)			4	
Cost per mile =$5.64/mile				
Mileage = 500 miles (Number in second column is 500 miles x number trucks)	Transport = 500 miles each	$5.64	2000	$11,280
Disposal/treatment cost (per gallon - low cost based on suitability for fuel)	TSD @$0.45/gallon	$0.450	21008	$9,454
- Transfer drums from CSA(s) to trucks				
Labor/Equipment (PPE Level D)	Labor/equipment per drum	$3.57	126	$450
(Number in second column is number of drums determined from total CSA capacity)				
- Transport drums to TSD for Treatment/Disposal				
Total Number of Drums (Number is total of CSA drums and Flam Shed drums)			126	
Total Number of Trucks Required to Transport Drums (84 per truck max)			2	
Cost per mile =$5.64/mile				
Mileage = 500 miles (Number in second column is 500 miles x number of trucks)	Transport trailer(s) x 500 miles	$5.64	1000	$5,640
Disposal/treatment cost (per drum - low cost based on suitability for fuel)	TSD @ $90/drum	$90	63	$5,670
Disposal/treatment cost (per drum - not suitable for fuel)	TSD @ $179/drum	$179	63	$11,277
Activity 1. Subtotal				$44,879

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
2. STORAGE TANK DECONTAMINATION				
Assumptions:				
- The tanks, piping and appurtenant equipment are decontaminated and remain in place				
- Rinsate sampling necessary because the tank will remain in place. Assumes 1 rinsate sample per tank.				
- Includes decontamination of the containment area				
- Assumes containment area to remain in place following decontamination				
- Assumes 1 rinsate sample required to leave containment in place				
- Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on engineer's inspection.				
- Tank Interior Square Footage (based on tank volume)			**Square Footage**	
- Tank 1			1206	
- Tank 2 (IF APPLICABLE)			0	
	Total Tank Interior Square Footage		1206	
- Tank Farm Containment Square Footage (includes floor and walls)			2908	
Prime Contractor Costs				
-Costs for oversight and engineers inspection included in Closure Certification Activity below				
- Collect Rinsate Sample(s) (1 per tank and 1 per containment)				
Work Rate for Sampling (hours per sample)			0.5000	
Number of Samples			1	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	0.50	$46
- Drilling for Soil Samples (2.5 in boring to 1 ft each)				
Work Rate for Drilling (hours per foot)			0.3050	
Number of Feet (subslab sample depth = 1 foot each)			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$146.29	0.61	$89
- Collect 2 Soil Samples				
Work Rate for Sampling (hours per sample)			0.5000	
Number of Samples			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	1.00	$92
Subcontractor Costs				
- Decontaminate waste AST, piping and appurtenant equipment				
Work Rate to Pressure Wash (hours per square foot)			0.0405	
Area of Tanks to be decontaminated			1206	
Labor and equipment for tank decon (PPE Level C)	Labor/equipment	$97.23	49	$4,749
- Decontaminate Tank Containment Area				
Work Rate to Pressure Wash 1 sq ft (hours per square foot)			0.0405	
Total Area of Containment (includes walls and floor)			3591	
Labor and equipment for CSA decon (PPE Level D)	Labor/equipment	$65.77	145	$9,565
Laboratory Subcontractor Costs				
- Analyze rinsate sample(s) from tank(s) and containment area for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample Total per sample cost	$658	1	$658
- Analyze soil sample(s) from containment area for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample Total per sample cost	$658	4	$2,632
Activity 2. Subtotal				$17,831

Table 1. Closure Cost Estimate Worksheet, Safety-Kleen Medley, FL 2022 8/12/2022

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
3. DECONTAMINATE THE RETURN/FILL STATION				
Assumptions:				
- Decontamination shall consist of washing with detergent/water solution and rinsing with high-pressure spray				
- Return/Fill structure and dock area will remain in place following decontamination				
- Drum washers to remain in place or sent offsite for reuse following decontamination				
- Rinsate sampling required from each drum washer to remain in place or sent offsite for reuse, and from containment				
- Assumes 2 soil samples required from beneath containment area. Actual number of samples will be based on engineer's inspection				
- Square footage used for decontamination includes containment, dock and drum washer units			**Square Footage**	
			4400	
Prime Contractor Costs				
-Costs for oversight and engineers inspection included in Closure Certification Activity below				
- Collect Rinsate Samples (1 per drum washer plus containment)				
Work Rate for Sampling (hours per sample)			0.5000	
Number of Samples			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	1.00	$92
- Drilling for Soil Samples (2.5 in boring to 1 ft each)				
Work Rate for Drilling (hours per foot)			0.3050	
Number of Feet (subslab sample depth = 1 foot each)			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$146.29	0.61	$89
- Collect Soil Samples				
Work Rate for Sampling (per sample)			0.5000	
Number of Samples			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	1.00	$92
Subcontractor Costs				
- Decontaminate waste AST, piping and appurtenant equipment				
Work Rate to Pressure Wash (hours per square foot)			0.0405	
Area of Returen/Fill to be decontaminated			4400	
Labor and equipment for tank decon (PPE Level C)	Labor/equipment	$97.23	178	$17,326
Laboratory Subcontractor Costs				
- Analyze 1 rinsate sample per drum washer and containment for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample			
	Total per sample cost	$658	2	$1,316
- Analyze soil sample(s) from containment area for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample			
	Total per sample cost	$658	2	$1,316
Activity 3. Subtotal				$20,231

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
4. DECONTAMINATE CONTAINER STORAGE AREA(S)				
Assumptions:				
- Decontamination shall consist of washing with a detergent water solution and rinsing with a high-pressure spray				
- CSA(s) to remain in-place following closure				
- Decontamination of CSA includes floor, curbing and containment trenches				
- Assumes 1 rinsate and 2 soil samples required per CSA. Actual number of soil samples will be based on engineer's inspection.				
- CSA Containment Square Footage			**Square Footage**	
- CSA 1				
- CSA 2 (IF APPLICABLE)			3920	
	Total CSA Square Footage		3920	
Prime Contractor Costs				
-Costs for oversight and engineers inspection included in Closure Certification Activity below				
- Collect Rinsate Samples (1 per CSA)				
Work Rate for Sampling (hours per sample)			0.5000	
Number of Samples			1	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	0.50	$46
- Drilling for Soil Samples (2.5 in boring to 1 ft each)				
Work Rate for Drilling (hours per foot)			0.3050	
Number of Feet (subslab sample depth = 1 foot each x number of samples)			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$146.29	0.61	$89
- Collect Soil Samples				
Work Rate for Sampling (hours per sample)			0.5000	
Number of Samples			2	
Labor and equipment per work hour (PPE Level D)	Labor/equipment	$91.88	1.00	$92
Subcontractor Costs				
- Decontaminate CSA(s)				
Work Rate to Pressure Wash (hours per sqaure foot)			0.0405	
Total Area of Permitted CSA(s) to be decontaminated			3920	
Labor and equipment for CSA decon (PPE Level D)	Labor/equipment	$65.77	159	$10,442
Laboratory Subcontractor Costs				
- Analyze rinsate sample(s) from each CSA for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample			
	Total per sample cost	$658	1	$658
- Analyze 2 soil sample(s) from each CSA for VOCs, SVOCs and RCRA metals	VOCs @ $189/sample SVOCs @ $359/sample 8 RCRA Metals @ $110/sample			
	Total per sample cost	$658	2	$1,316
Activity 4. Subtotal				$12,643

	Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
5.	CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMINATION WASTES				
	Assumptions:				
	- Amount of decon wash water generated derived from previous closure experience. Quantity based on approximately 0.8 gal/ sq ft for tank systems and 0.1 gal/sq ft for containment area floors				
	Unit Description	Square Footage	Number Gallons		Number Drums
	STORAGE TANK DECONTAMINATION	1,206	965		18
	DECONTAMINATE TANK CONTAINMENT	2,908	291		6
	DECONTAMINATE THE RETURN/FILL STATION	4,400	3520		64
	DECONTAMINATE CONTAINER STORAGE AREA(S)	3,920	392		8
	PPE, CONSUMABLES, DEBRIS	NA	NA		5
	- Purchase 55-gallon drums to containerize wash water	Drums @ $83 each	$83	101	$9,221
	Subcontractor Costs				
	- Transfer drums to trucks				
	Labor/Equipment (PPE Level D)	Labor/equipment per drum	$3.57	101	$361
	- Transport drums to TSD for Treatment/Disposal				
	Total Number of Trucks Required to Transport Drums (84 per truck max)			2	
	Cost per mile =$5.64/mile				
	Mileage = 500 miles (Number in second column is 500 miles x number trucks)	Transport trailer(s) x 500 miles	$5.64	1000	$5,640
	Disposal/treatment cost (per drum - low cost based on lack of hazardous constituents)	TSD @ $90/drum	$90	96	$8,640
	Disposal/treatment cost for PPE drums (assumed haz to landfill)	TSD @$250/drum	$250	5	$1,250
	Activity 5. Subtotal				$25,112

	Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
6.	CLOSURE CERTIFICATION				
	Assumptions: - Cost Pro unit rate per unit to be closed is $4,118 - Unit rate includes engineer inspection and decontamination oversight of each unit				
	Prime Contractor Costs				
	- Oversee and certify closure per unit times number of units	Project Manager/Engineer	$4,118	3	$12,354
	Activity 6. Subtotal				$12,354

Table 1. Closure Cost Estimate Worksheet, Safety-Kleen Medley, FL 2022 8/12/2022

Activity	Category	Hourly Rate or Unit Charge	Hours or Unit Estimate	Subtotal Cost
COST ESTIMATE ACTIVITIES SUMMARY				
1. INVENTORY REMOVAL				$44,879
2. STORAGE TANK DECONTAMINATION				$17,831
3. DECONTAMINATE THE RETURN/FILL STATION				$20,231
4. DECONTAMINATE CONTAINER STORAGE AREA(S)				$12,643
5. CONTAINERIZE, STAGE, TRANSPORT AND DISPOSE OF DECONTAMINATION WASTES				$25,112
6. CLOSURE CERTIFICATION				$12,354
TOTAL CLOSURE COST ESTIMATE				$133,051
Add Inflation factors from 2010 to most recent (updated for inflation from the latest version of CostPro (6.0)				
2010			1.01	$134,381
2011			1.01	$135,725
2012			1.02	$138,439
2013			1.017	$140,793
2014			1.015	$142,905
2015			1.014	$144,905
2016			1.009	$146,210
2017			1.013	$148,110
2018			1.018	$150,776
2019			1.022	$154,093
2020			1.017	$156,713
2021			1.012	$158,594
###			1.041	$165,096
TOTAL CLOSURE COST ESTIMATE WITH INFLATION				$165,096
CONTINGENCY				15%
TOTAL CLOSURE COST WITH CONTINGENCY				$189,860

Notes:

- Estimate assumes that waste management units are at permitted capacity at time of closure, which is the most expensive in the facility's operating life.
- All unit rates obtained from Cost Pro version 6.0, which is designed to be represetative of 3rd party costs and includes the following:
  - Transportation @ $5.64/mile and 300 mile trip
  - Disposal for bulk liquids $0.45/gallon based on suitability of waste mineral spirits as fuel
  - Disposal for CSA liquids $90/drum based on suitability of drummed waste streams as fuel
  - Disposal of decon wash water $90/drum based on lack of hazardous constituents in waste (soapy water)
  - Subcontractor Decontamination Rate for tanks and return/fill based on PPE Level C
  - Subcontractor decontamination rates for tank containment, CSAs and Flam Shed (if applicable) based on PPE Level D
  - Prime Contractor Rates based on hourly rate for rinsate sampling, drilling and soil sample collection
  - Lab subcontractor rates for analysis of rinsate and soil samples (Assumes VOCs, SVOCs and metals)
  - Closure Certification Activity includes contractor oversight, PE integrity inspections and reporting/Certification

DEP Form # 62-730.900(4)(k)
Form Title HW Certificate of Liability Insurance
Effective Date January 5, 1995
DEP Application No

STATE OF FLORIDA
HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE
(Primary Policy)

1. Great American Insurance Company (the "Insurer"),
Name of Insurer

of 301 E 4th St, Cincinnati, OH 45202
Address of Insurer

hereby certifies that it has issued liability insurance covering bodily injury and property damage to

Safety-Kleen Systems, Inc., (the "Insured"), of
Name of Insured

42 Longwater Drive, Norwell, MA 02061
Address of Insured

in connection with the insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147, as adopted by reference in Section 62-730.180, Florida Administrative Code (F.A.C.). The coverage applies at

EPA/DEP I.D. No.	Name	Address
SEE ATTACHED LIST		

for:

☑ sudden accidental occurrences

☐ nonsudden accidental occurrences

☐ sudden and nonsudden accidental occurrences

If coverage is for multiple facilities and the coverage is different for different facilities, indicate which facility(ies) are insured for sudden accidental occurrences, which are insured for nonsudden accidental occurrences, and which are insured for both.

The limits of liability are $1,000,000.00 each occurrence and $2,000,000.00 annual aggregate, exclusive of legal defense costs. The coverage is provided under policy number PRE E603235 02, issued on 11/1/2022 (Date). The effective date of said policy is 11/1/2022 (Date).

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

(a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

(b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f), as adopted by reference in Section 62-730.180, F.A.C.

(c) Whenever requested by the Secretary of the Florida Department of Environmental Protection (FDEP), the Insurer agrees to furnish to the Secretary a signed duplicate original of the policy and all endorsements.

(d) Cancellation of the insurance, whether by the Insurer or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Secretary of the FDEP.

(e) Any other termination of the insurance (e.g., expiration, non-renewal) will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Secretary of the FDEP.

I hereby certify that the wording of this instrument is substantially identical to the wording specified in 40 CFR 264.151(j), as adopted by reference in Section 62-730.180, F.A.C., as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States including Florida.

Heather Boyd
Signature of Authorized Representative of Insurer

Heather Boyd
Type name

Assist Vice President, Enviornmental Division
Title

Authorized Representative of

Great American Insurance Company
Name of Insurer

31 St. James Ave., Suite 830, Boston, MA 02116
Address of Representative

SAFETY-KLEEN SYSTEMS, INC.

STATE OF FLORIDA

505 Plumosa Drive Altamonte Springs, FL 32701	FLD097837983
5610 Alpha Drive Boynton Beach, FL 33426	FLD984167791
Georgia Street Delray Beach, FL 33444	
1855 S.W. 4th Avenue B-11 Delray Beach, FL 33444	FLD000776757
8755 NW 95th Street Medley, FL 33178	FLD984171694
161 Industrial Loop South Orange Park, FL 32073	FLD980847214
79200 Peachland Blvd. Units 1-6 Port Charlotte, FL 33948-2166	FLD000776716
23375 Janice Avenue Port Charlotte, FL 33948	FLD000776716
600 Central Park Drive Sanford, FL 32771	FLD984171165
4426 Entreport Boulevard Tallahassee, FL 32310	FLD982133159
5309 24th Avenue South Tampa, FL 33619	FLD980847271
Manhattan Avenue Tampa, FL 33614	FLD049557408

359 Cypress Road Ocala, FL 34472	FLR000060301
2930 63rd Avenue Bradenton, FL 34203	FLR000120618
8985 Columbia Road Cape Canaveral, FL 32920	
1400 NW 13th Avenue Pompano Beach, FL 33069	

Part II

A. General

A.4.b-d Contingency Plan

See Part II PPP-CP section.

A. General

A.4.e Training – Introductory and Continuing

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, health & safety, and transportation 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 branch service center safely, and to understand hazards unique to job assignments. Before starting work in their new positions at the Branch, each employee is required to complete initial regulatory training. Regulatory training for new employees may be given at the local branch where they will be assigned. This regulatory training is given via web-based classes (Webex instructor led & online learning modules). Introductory training will include an overview of the history of Clean Harbors/Safety-Kleen, products and services provided by the company, policies and benefits, HAZWOPER 24-hr., and USDOT Regulations Regarding the Safe and Legal Transport of Materials Designated as Hazardous. Branch Managers, Customer Service Managers, and

Account Managers will attend a Training class which provides an overview of RCRA regulations. Branch Managers, Customer Service Managers, Drivers (Sales and Service Representatives, Vacuum Sales and Service Representatives, Oil Sales and Service Representatives) will attend USDOT Federal Motor Carrier Safety Regulations Regarding Entry Level Driver Training. All new employees that may operate a company vehicle will attend a defensive driving training class. Upon completion of these introductory training classes, each employee will attend a RCRA Site Specific training class which covers RCRA regulations as they pertain to the Safety-Kleen Branch, overview of the hazardous waste operating permit, and contingency plan training review. New branch managers must complete a formal introductory training program before starting their job. This training involves working with an experienced Field Operations Manager at their respective branch, and possible travel to another Safety-Kleen branch to work with an experienced branch manager. New Sales and Service Representatives and all other hazardous waste employees must undergo a combination of classroom, online, and on-the-job training prior to working with hazardous waste. Material Handlers will undergo a combination of classroom, online, 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. If and employee changes position, they will receive all training that pertains to that new position within 6 months before working unsupervised. All employees that handle and/or manage hazardous wastes will normally complete the introductory training program within the first month of employment. In addition, all employees will be trained to effectively respond to emergencies within 6 months after beginning employment, assignment to a facility, or to a new position, whichever is later, in accordance with 40 CFR Part 264.16(b).

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, found at the end of this section.

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 6.1-11, found at the end of this section.

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 this via web-based modules and will be required to review completion of these modules with their respective Health & Safety Manager. 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.

- The first two weeks of employment will be spent attending web-based regulatory and company specific orientation training at the local branch they will be assigned to. The new employee will receive a company orientation, including a review of company benefits, and hazardous waste operations training (HAZWOPER 24-hr.), USDOT Regulations Regarding the Safe and Legal Transport of Materials Designated as Hazardous, Branch Technical Training (if applicable to position), Entry Level Driver Training (if applicable to position), and Defensive Driver Training (if operating a company vehicle).
- The second part of new employee training is site specific training. When the new employee completed their initial regulatory training and orientation, 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, forklift training, operating manual pallet jacks/hand trucks for container movement, return/fill operations (if applicable to job position), etc. Sales and Service Representatives will receive additional online, and on-the-job training for servicing all types of parts washers, containerized waste service, manifest preparation, etc. Vacuum Sales and Service Representatives will receive additional online, and on-the-job training for vacuum service operations including truck operation while onloading materials and off-loading at the branch. Oil Sales and Service Representatives will receive additional online, and on-the-job training for collection of used oil, used antifreeze, truck operation while onloading materials and off-loading at the branch.

The job tasks a person performs will dictate the type of instruction required. The following presents the specific training requirements for new Safety-Kleen employees who will manage or handle hazardous waste.

<u>Training of New Branch General Managers:</u> New Branch Managers are trained for several weeks before they begin their new positions. This training is given on-the-job by Field Operations Managers, and experienced branch managers. 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.

<u>Training of New Customer Service Manager:</u> The Customer Service Manager is responsible for administrative operations at the Branch and managing the Sales and Service Representatives. 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.

<u>Training of New Administrative Assistants (Secretaries):</u> 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 (SSR), Account Managers (AM):</u> These personnel are trained on-the-job by an experienced employee for two weeks, or more if needed.

Sales and Service Representatives will ride along with experienced SSR's during which they are introduced to parts washer services, containerized waste services, proper container labeling, container inspections, container movement, manifests/bill of ladings, load securement, and overall driving ability. Account Managers will work with experienced AM's visiting current, and potential customers to sell Safety-Kleen products and services, account set up, waste profiling, etc. Additional training is in the form of periodic health & safety training topics, environmental regulations and a review of the Contingency Plan.

Training of New Material Handlers: Material Handlers (MH) are trained on-the-job to maintain the branch in compliance with hazardous waste operating permit conditions, environmental regulations, and assist the other Branch employees in their tasks. They will be the primary personnel for loading trucks with products for delivery to customers, off-loading containerized wastes from tucks arriving at the branch, and moving this material into the proper storage areas. MH's will also be the primary personnel for the Return/Fill operations, and normally will be a designee to perform Branch inspections and must be trained by the Branch Manager or Environmental Compliance Manager for this task.

Continuing and Annual Training: On a continuing basis, employees are trained using the programs prepared and updated Health & Safety, Environmental Compliance, Transportation Compliance, and Training Departments which contain the topics in Table 6.1-12, found at the end of this section. This training includes: Hazwoper 8 hr. annual refresher, RCRA annual refresher, 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 Branch hazardous waste operating permit conditions. Training on USDOT Regulations Regarding the Safe and Legal Transport of Materials Designated as Hazardous will be conducted virtually every 3 years for employees requiring this class. In addition, periodic sessions on changes in environmental regulations are issued by the Environmental Compliance and Health and Safety Departments and must be attended by all Branch personnel.

Training Director

The training is directed by Clean Harbors/Safety-Kleen's Training Department. There are specific Environmental Compliance Managers, Health & Safety Managers, and Transportation

Compliance Managers responsible for compliance of the service centers in a given geographic area of the country. These compliance departments, in coordination with the facility, must:

- Provide a training program which addresses the requirements of all 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 permits are submitted and updated as required;
- Manage any 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 compliance departments 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 health & safety, transportation regulations, environmental regulations, and the Preparedness and Prevention, and the Contingency plans.

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, 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, and at yearly RCRA refresher courses. Employees are trained on the contents of the Contingency Plan as well as criteria for implementation.

Training for Hazardous Waste Operations and Emergency Response

All employees are trained in emergency response procedures through both initial Hazwoper 24-hr. training and Hazwoper 8-hr. annual 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 it has employee training procedure in place for the proper handling, emergency response, and containment/clean-up of its spent universal waste lamps, or devices. This training is given during the annual RCRA refresher.

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.

TABLE 6.1-1

TYPICAL OUTLINE OF INITIAL TRAINING TOPICS

Day	Topic	SK Course Name
Monday	Welcome / Introductions/Ground Rules	Driver Training Essentials
	Driver Qualifications	
	Driver Wellness	
	Whistleblower Protection	
	Hours of Service Regulations	
	Exempt Log Training	
	Pre & Post Trip Inspections	
	Load Securement	
	Vehicle Cone Program	
Tuesday	Welcome / Introductions/Ground Rules	HAZWOPER
	Regulatory Compliance	
	Hazard Recognition	
	Hazard Communication	
	Respiratory Protection	
Wednesday	Walking & Working Surfaces	HAZWOPER
	Patriot Act for Employees	
	Personal Protective Equipment	
	Decontamination	
	Toxicology	
	Medical Surveillance	
	Hearing Protection	
Thursday	Ergonomics	HAZWOPER
	Fire Prevention & Protection	
	Lockout/Tagout Awareness	
	Electrical Safety	
	Confined Space Awareness	
	Container Handling	
Friday	Introduction	Hazardous Materials Transportation Skills (HMTS)
	Definitions	
	D.O.T. Regulations	
	Hazard Classes	
	Hazardous Materials Table	
	Shipping Papers	
	Marking	
	Labeling	
	Placarding	
	Hazardous Materials Segregation	
	Packaging	
	Incidents	

Day	**Topic**	**SK Course Name**
Friday (cont'd)	Load Securement	HMTS (cont'd)
Saturday	RCRA Regulations	Branch Technical Training
	Waste Material Profiling	
	Sampling Hazardous Materials	
	Shipping HazMat Samples via ground	

Job Description

Job Title: **Branch General Manager**
Department: Branch Sales & Service
Reports To: District Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The Branch General Manager is responsible for financial and operational management including: financial performance against quota or budget (P & L), EH&S compliance through the Environmental Management System (EMS), and operational management of the facilities and of the human resources.

Essential Duties and Responsibilities include but are not limited to the following.

- Manage the branch operations including hiring, training, and supervision of the staff.
- Manage sales and service staff in achieving customer retention, on-time service performance, and accounts receivable goals by: observing corporate operating guidelines, training and reinforcing critical service skills, and working to prevent and resolve customer service issues.
- Conduct inspections and ride-alongs with sales and service staff to ensure timely and effective servicing of customers' equipment.
- Profit or loss of the facility(ies) by focusing on building new business relationships and maintaining existing customer bases and satisfaction.
- Prepare branch sales/service forecast and budget.
- Knowledge of, and compliance with hazardous waste regulations, and RCRA permit conditions. Monitoring/supervising daily operations to assure performance is within regulatory guidelines. Health & Safety leadership to ensure compliance with OSHA regulations.
- Maintenance of branch fleet to company standards, assistance with branch incident alert and spill response systems, and control of branch inventory.
- Maximize collection of money at the time of service, collect on overdue accounts, and determine when to pull an account.
- Ensure that all branch customer service practices are conducted consistent with high ethical standards.

Supervisory Responsibility:
The Branch General Manager recommends hiring, training, scheduling, performance appraisal, promoting, compensation, corrective action and termination.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/Or Experience: Minimum of High School diploma or (GED). Bachelor's degree preferred. At least 5 years experience in a sales and service organization.

Certificates, Licenses, Registrations: Class B CDL, Haz Mat, Air Brakes and Tankers endorsement.

Physical Demands: While performing the duties of this job, the employee must frequently sit for long periods of time, use the computer, as well as occasionally lift up to 25 pounds. There will also be some occasional need for bending, kneeling, or reaching.

Work Environment: While performing the duties of this job, the employee has some exposure to warehouse as well as outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; extreme cold; extreme heat.

Safety-Kleen Systems, Inc.

Job Description

Job Title:	**Customer Service Manager**
Department:	Branch Services
Reports To:	Branch General Manager
FLSA Status:	Exempt
Approved By:	SVP HR
Approved Date:	01/29/07

Summary: The Customer Service Manager is responsible for ensuring optimum customer service leading to retention and expansion of the branch business. Key responsibilities include supervising customer service staff, ensuring services are completed in a timely manner, and managing customer relationships.

Essential Duties and Responsibilities include but are not limited to the following.

- Manage the branch customer service functions including hiring, training and supervision of the sales and service representatives (SSR).
- Manage sales and service staff in achieving customer retention, on-time service performance, and accounts receivable goals by: observing corporate operating guidelines, training and reinforcing critical service skills, and working to prevent and resolve customer service issues.
- Conduct inspections and ride-alongs with sales and service staff to ensure timely and effective servicing of customers' equipment.
- Direct branch service scheduling and logistics to ensure on-time performance for all customers by aligning territories, defining routes, and managing associated paperwork.
- Exhibit knowledge of hazardous waste regulations and RCRA permit conditions. Monitor daily operations with respect to drivers to assure performance is within regulatory guidelines.
- Work with Branch General Manager (BGM) to ensure effective operation of the branch including maintenance and operation of branch fleet to company standards, assistance with branch incident alert and spill response systems, and control of branch inventory.
- Administer branch accounts receivable program to maximize collection of money at the time of service, collect on overdue accounts, and determine when to pull an account.
- Ensure that all branch customer service practices are conducted consistent with high ethical standards.

Supervisory Responsibility:
The Customer Service Manager recommends hiring, training, scheduling, performance appraisal, promoting, compensation, and termination.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

> **Education and/Or Experience:** High school diploma or (GED). 3-5 years experience and/or related training.
>
> **Certificates, Licenses, Registrations:** Class B CDL, Haz Mat, Air Brakes and Tankers endorsement.

Physical Demands: While performing the duties of this job, the employee must frequently stand, walk, bend, use the computer, reach, squat, stoop and twist. The employee must frequently carry, lift, pull or push up to 50 pounds. The employee will occasionally drive a large truck.

Work Environment: While performing the duties of this job, the employee is frequently exposed to warehouse and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; extreme cold; extreme heat.

Safety-Kleen Systems, Inc.

Job Description

Job Title: **Account Manager**
Department: Sales
Reports To: District Sales Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The MSS will continually manage an account base outside of the ordinary service schedule. This position will also grow business internally and externally. The MSS will act as the primary point of contact for customers with questions / concerns / new business. This should be a motivated person who possesses consultative selling abilities and who is skilled at building long-term business relationships within the assigned sales territory.

Essential Duties and Responsibilities include but are not limited to the following.

- Completion of necessary paperwork (waste profiling, quotations etc).
- Communication with service, office, and warehouse staff.
- Build relationships with key buyers in territory.
- Assess current/potential business in existing accounts and create strategy to grow business.
- Analyze customer needs and design sales, customer service and account management processes to acquire and retain accounts.
- Prepare and deliver customer quotes and identify new solutions for customers
- Provide technical and sales assistance to customers.
- Serve as interface between customers and company by ensuring that customer needs are met and by handling customer complaints.
- Prepare sales plans and future period forecasts.
- Monitor and track sales plan to ensure sales quota is met; prepare regular status reports.
- Keep abreast of products, market conditions and competitive activities.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/or Experience: Two years of college or specialized training (business or environmental) is required plus 1-3 years experience. Bachelor’s degree plus coursework and certification is preferred. Alternative combinations of education and experience may be accepted in lieu of degree.

Competencies and Skills: Analytical, prioritization, organization, computer and leadership skills. Must be proficient working with spreadsheets as well as CRM software tools.

Physical Demands: While performing the duties of this job, the employee must frequently drive a car.

Safety-Kleen Systems, Inc.

Job Description

Job Title:	**Branch Administrator**
Department:	Branch Services
Reports To:	Branch General Manager
FLSA Status:	Exempt
Approved By:	SVP HR
Approved Date:	03/26/07

Summary: The Branch Administrator is an administrative position responsible for maintaining detailed and accurate company, branch, and customer files.

Essential Duties and Responsibilities include but are not limited to the following.

- Assembles packages of documents for Sales Representatives.
- Check Sales or Hazardous Waste documents turned in by Sales Representatives.
- Ensure proper completion of paperwork including manifests, and alert manager of errors.
- Provide customer service functions by responding to customer inquiries and/or complaints, handling or routing service questions, and solving problem accounts.
- Prepare Manual Forms, Manifests and LDR forms, as required.
- Distribute copies of service documents and manifests to customers, various Safety-Kleen locations, and to governmental agencies, as required.
- Contact customers delinquent in payment and coordinates pick-up of payments.
- Log wastes, adjusts service scheduling, prepares reports, completes MMVR reports and checks manifests for assigned territories.
- Provide other clerical support duties as requested.
- Exhibit knowledge of hazardous waste regulations with regard to daily branch responsibilities

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma and six months+ related experience, and/or training.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit at a work station using the computer.

Safety-Kleen Systems, Inc.

Job Description

Job Title: **Material Handler**
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 03/26/07

Summary: The Material Handler works in the warehouse handling hazardous waste material using a forklift or other equipment.

Essential Duties and Responsibilities include but are not limited to the following.

- Loads finished product bulk shipments, and completes paperwork.
- Samples inbound bulk shipments and completes paperwork.
- Inventory and maintain loading and unloading areas.
- Prepares bulk wastes for shipment to other Safety-Kleen locations.
- Empties bulk into holding vessel.
- Washes "used parts washer" drums in drum washer and fills clean drums with solvent.
- Shrink wraps containerized wastes, arranging the waste on the pallet so all labels are showing, and prepares the shipment for transportation to other Safety-Kleen locations.
- Checks all trucks for proper strapping of drums and that cargo doors are closed.
- Disassembles returned parts washing machines and prepares them for shipment to the DC.
- Completes daily/weekly facility inspection required by Part B Permit or by Safety-Kleen, as assigned by the Branch Manager.
- Monitors waste quantity and storage limits and notifies the Branch Manager if limits will be exceeded within 24-48 hours so action can be taken.
- Oversees retained sample program.
- Ensure dock, warehouse and return & fill areas are cleaned and organized at all times.
- Exhibit knowledge of hazardous waste regulations with regard to warehouse operations and permit conditions.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma and six months+ related experience, and/or training. Familiar with H.S.E. and M.S.D.S. for all product used and stored at the facility. Certified forklift operator. Certified in hazardous waste operations and emergency response.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, and Organization skills.

Physical Demands: Exert up to 50 pounds of force occasionally, and/or up to 20 pounds of force frequently, and/or up to 10 pounds of force constantly to move objects. Stands and/or walks more than 4 hours a day. Hand Tools & Small Power Tools; Hand Truck/Dolly; Large Power Tools & Equipment, Forklift, Truck, Wench; Personal Protective Equipment.

Safety-Kleen Systems, Inc.

Job Description

Job Title: **Sales & Service Associate**
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The SSA is an entry level position responsible for learning how to service our parts cleaning machines and selling related products to customers on route.

Essential Duties and Responsibilities include but are not limited to the following.

- Receive manifests, labels, route schedule from office staff.
- Select, pull, and load needed inventory (empty drums, pig products, new machines, etc) for the day's customer visits as per route schedule.
- Perform daily truck check & complete truck check list form.
- Perform routine route.
- Properly label, scan, and document waste picked up from customer site.
- Present receipt to customer, as well as address any customer service issues or sales opportunities.
- Complete end of day paperwork.
- Perform equipment repair activities as needed.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED) and six months+ related experience, and/or training.

Certificates, Licenses, Registrations: Class C CDL and Haz Mat endorsement (or the ability to obtain)

Competencies and Skills: Mechanically Inclined, Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently stand or walk and occasionally drive a large truck. The employee must frequently carry, lift, pull or push up to 50 pounds. The employee is occasionally required to reach, bend, kneel, squat, climb, stoop or twist; and talk or hear.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

Safety-Kleen Systems, Inc.

Job Description

Job Title:	**Sales and Service Representative**
Department:	Branch Services
Reports To:	Branch Service Manager
FLSA Status:	Exempt
Approved By:	SVP HR
Approved Date:	01/29/07

Summary: Services SK machines at customer sites, sells new products to existing customers, removes waste from customer sites and provides on-site customer service.

Essential Duties and Responsibilities include but are not limited to the following.

- Receive manifests, labels, route schedule from office staff.
- Select, pull, and load needed inventory (empty drums, pig products, new machines, etc) per route schedule.
- Perform daily truck check & complete truck check list form.
- Perform routine route
- Properly label, scan, and document waste picked up from customer site.
- Present receipt to customer as well as address any customer service issues or sales opportunities.
- Complete end of day paperwork.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED) and six months+ related experience, and/or training.

Certificates, Licenses, Registrations: Class C CDL and hazmat certifications.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of Safety, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit, walk, stand, crawl or drive a truck. The employee must frequently carry, lift, pull or push 50 pounds or more. The employee is constantly required to reach, bend, kneel, squat, climb, stoop or twist; and talk or hear. The employee must constantly drive a large truck and/or move heavy equipment.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

Safety-Kleen Systems, Inc.

Job Description

Job Title: **Oil Sales and Service Representative**
Department: Branch Services
Reports To: Branch General Manager
FLSA Status: Exempt/Non-Exempt
Approved By: SVP HR
Approved Date: 01/29/07

Summary: The OSSR is responsible for safely and efficiently removing, transporting and delivering waste oil from customer facilities to Safety-Kleen oil recycling and refining centers.

Essential Duties and Responsibilities include but are not limited to the following.

- Receive manifests, labels & route schedule from office staff
- Perform Pre & Post Trip Inspection Report
- Perform routine route.
- Properly label, scan and document waste oil removed from customer site into handheld. Present receipt to customer, obtain authorized signature, as well as address any customer service issues and sales opportunities.
- Complete end of day paperwork (any manifests, orders etc. that were not already in the handheld). Dock handheld for overnight upload.
- Ensure environmental compliance and operate vehicles in accordance with DOT, local, state and federal requirements

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED) and six months+ related experience, and/or training.

Certificates, Licenses, Registrations: Class C CDL and Haz Mat endorsement and Tanker.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of, and adherence to, Safety regulations and policies, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit, walk, stand, crawl or drive a truck with reasonable accommodations. The employee must frequently carry, lift, pull or push 50 pounds or more. The employee is constantly required to reach, bend, kneel, squat, climb, stoop or twist; and talk or hear. The employee must constantly drive a large truck.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

Safety-Kleen Systems, Inc.

Job Description

Job Title:	**OIL/VAC Sales and Service Rep.**
Department:	Branch Sales & Service
Reports To:	Branch General Manager
FLSA Status:	Exempt
Approved By:	SVP HR
Approved Date:	10/2/06

Summary: This position combines the Oil & Vac routes and depending on the service will require the employee to remove waste fluid our customers (VSSR Route). This involves using vacuum equipment to pump waste materials and liquid from oil-water separator pits, as well as transporting & delivering the waste material to Safety-Kleen disposal sites. Or, it will require the employee to remove, transport and deliver waste oil from customer facilities to Safety-Kleen oil recycling and refining centers (Oil Route). Reports to CSM or BGM.

Essential Duties and Responsibilities include the following. Other duties may be assigned.

- Receive manifests, labels & route schedule from office staff
- Perform Pre & Post Trip Inspection Report
- Perform route: (drive to customer location, ensure each service meets the used oil or vac waste qualifications, take sample of each oil or vac service & place in retain sample storage area, pump waste oil or waste materials & liquid from oil-water separator pits from customer facilities to Safety-Kleen oil recycling & refining centers or Safety-Kleen disposal site).
- Properly label, scan and document waste oil (oil service) or waste materials & liquids (vac service) removed from customer site into handheld. Present receipt to customer, obtain authorized signature, as well as answer any customer service issues.
- Complete end of day paperwork (any manifests, orders etc. that were not already in the handheld). Dock handheld for overnight upload.
- Ensure environmental compliance and operate vehicles in accordance with DOT, local, state and federal requirements.

Sales Responsibilities:

Focus is all customer types within a particular region or territory for new and existing accounts.

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

> **Education and/Or Experience:** High school diploma or (GED). No experience necessary.
> **Certificates, Licenses, Registrations:** CDL and Haz Mat endorsement and Tanker.
> **Competencies and Skills:** Customer Service, Attention to Detail, Recognize the importance of, and adherence to, Safety regulations and policies, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently kneel and stoop and constantly bend, climb, reach and twist. The employee must constantly carry, lift and pull up to 50 pounds. The employee must constantly drive a large truck and occasionally move equipment. Job will use right and left hands for repetitive movement such as Simple Grasping and Pushing/Pulling. Job will use right hand for repetitive movement such as Fine Manipulation. Job will use feet for repetitive movement such as foot controls.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

Safety-Kleen Systems, Inc.

Job Description

Job Title:	**Vacuum Sales and Service Representative**
Department:	Branch Services
Reports To:	Branch General Manager
FLSA Status:	Exempt/Non-Exempt
Approved By:	SVP HR
Approved Date:	01/29/07

Summary: The VSSR provides waste fluid removal services to our customers. This involves using vacuum equipment to pump waste materials and liquid from oil-water separator pits, as well as transporting & delivering the waste material to Safety-Kleen disposal sites.

Essential Duties and Responsibilities include but are not limited to the following.

- Receive manifests, labels & route schedule from office staff
- Perform Pre & Post Trip Inspection Report
- Perform routine route and associated daily activities.
- Properly label, scan and document waste materials & liquids removed from customer site.
- Present receipt to customer, obtain authorized signature, as well as answer any customer service issues.
- Complete end of day paperwork.
- Ensure environmental compliance and operate vehicles in accordance with DOT, local, state and federal requirements.
- Ensure strict compliance to Branch SOP's.
- Exhibit knowledge of used oil regulations with respect to responsibilities

Qualifications: To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

Education and/Or Experience: High school diploma or (GED) and six months+ related experience, and/or training.

Certificates, Licenses, Registrations: Class C CDL and Haz Mat endorsement and Tanker.

Competencies and Skills: Customer Service, Attention to Detail, Recognize the importance of, and adherence to, Safety regulations and policies, Time Management, Product Knowledge, Sense of Direction, Knowledge of Hazardous Waste, and Organization skills.

Physical Demands: While performing the duties of this job, the employee must frequently sit, walk, stand, crawl or drive a truck with reasonable accommodations. The employee must frequently carry, lift, pull or push 50 pounds or more. The employee is constantly required to reach, bend, kneel, squat, climb, stoop or twist; and talk or hear. The employee must constantly drive a large truck.

Work Environment: While performing the duties of this job, the employee is frequently exposed to moving mechanical parts and outside weather conditions. The employee is occasionally exposed to wet and/or humid conditions; high, precarious places; fumes or airborne particles; extreme cold; extreme heat; and risk of electrical shock.

TABLE 6.1-12

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 RCRA refresher training – hazardous waste permit conditions, container and storage tank regulations, used oil training, universal waste training, manifest requirements, recordkeeping, and hazardous waste determination are included in the initial and annual RCRA training.

Part II, A. General

5. WASTE CHARACTERISTICS

Waste analysis requirements mandate that before an owner or operator transfers, treats, stores, or disposes of any hazardous waste, he must obtain a detailed chemical and physical analysis of a representative sample of wastes. This analysis, at a minimum, must contain all of the information that must be known to 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 the Safety-Kleen Medley Branch, found in Part II.WAP, 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**	542	D001 and D-Codes Listed in Note Below
Branch Generated Liquids/Solids (Debris)	S01*	6	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*	21	D-Codes Listed in Note Below
Dry Cleaning Waste (Perchloroethylene)	S01*	234	F002 and D-Codes Listed in Note Below
Dry Cleaning Waste (Naphtha-Based)	S01*	Included above	D001 and D-Codes Listed in Note Below
Paint Wastes	S01*	46	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) Transfer Wastes	S01***	167	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 warehouse container storage area. The maximum capacity in the warehouse container storage area is 29,400 gallons, with 6,912 gallons being hazardous waste..

** The RCRA-Permitted Hazardous Waste Tank (Used Solvent) 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). There is one transfer waste area Located inside the warehouse adjacent to the container storage area

**** Various D-Codes, F-Codes, K-Codes, P-Codes, U-Codes may be accepted for 10-day storage and transfer

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 Medley facility collects used materials from numerous customers, many of whom are Very Small and Small Quantity Generators (VSQGs 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.

Analysis of Safety-Kleen's core/permitted waste streams is undertaken each year through the Annual Recharacterization Program (AR). The AR program involves representative samples being taken from customer core waste streams, randomly selected after being returned to the branches, at approximately 30-35 Safety-Kleen branches across the country. Representative samples of common waste streams generated at Safety-Kleen branches are also taken and submitted for analysis as part of the AR program. Samples are sent to an independent laboratory for analysis (TCLP metals, volatiles, semi-volatiles, flash point, and pH). The results of the analyses are then tabulated for all participating Safety-Kleen Branches to provide a cross-sectional view of the waste characteristics associated with the closed-loop or industry-specific waste streams. Then the results are subjected to a statistical review to determine applicable EPA hazardous waste codes for the upcoming year. A summary and explanation of the statistical analysis and methodology utilized to evaluate the analytical data obtained through the AR program each year is included in Part II WAP section. A summary of the analyses for the AR program is found in Appendix B.

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

Used parts washer solvent from parts washer services at Safety-Kleen customers is accumulated in a 20,000-gallon aboveground storage tank (RCRA-Permitted Hazardous Waste Tank (Used Solvent) via the wet dumpster in the Return and Fill Shelter (R/F). Containers of used solvent are poured into a drum washer unit (wet dumpster) 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. Used Parts Washer Solvent which may include any of Safety-Kleen's petroleum-naphtha based products, is removed from the RCRA-Permitted Hazardous Waste Tank (Used Solvent) by a tanker approximately every 20 working days. For appropriate waste codes, see the Table above in this section. The Medley facility will ship used parts washer solvent to a permitted Safety-Kleen/Clean Harbors TSDF or other facility appropriately permitted to accept the waste for reclamation. The used parts washer 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 RCRA-Permitted Hazardous Waste Tank (Used Solvent). 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 in this section.
3. Branch Generated Liquids/Solids/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 in this section.

4. System One Type Parts Washers (recycling units) – These types of parts washers build up oil/sludge in the distillation unit of the machine while in use at the customer's location. 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 VSQG, 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 naphtha, 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 or transfer area. The Immersion Cleaner remains in the container in which it was originally delivered to the customer in until it is received at a permitted SK/Clean Harbors TSDF for reclamation/disposal. For appropriate waste codes, see the Table above in this section.

Wastes Resulting From the Dry Cleaner Service

Safety-Kleen manages naphtha-based, and perchloroethylene-type of hazardous dry cleaner waste in the container storage area or transfer waste area. 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 naphtha-based non-perchloroethylene dry cleaning containers are placed in the container storage area or transfer waste 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 in this section.

Wastes Resulting From Paint and Thinner Services

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 above in this section for other applicable waste codes.
2. Clear Choice Paint Gun Cleaner 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 above in this section 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 above in this section for other applicable waste codes.

The paint wastes described above are collected in containers from the customer’s location meeting U.S. DOT specifications. The wastes are containerized by the generator at their place of business. The paint wastes remain in these containers and are stored in the container storage area while at the SK Medley branch. Paint wastes are then shipped to a permitted Safety-Kleen/Clean Harbors TSDF, or other properly permitted facility for disposal.

Branch 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 at the branch in metal cabinets in the warehouse, and then disposed of as hazardous waste. The samples are typically 4-oz. plastic/glass jars. They are manually placed into 55-gallon containers, 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 above in this section.

Branch Generated Aerosol Cans

<u>Spent Aerosol Cans:</u> 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 (D001/D035) for this material are found in the table above in this section.

Used Antifreeze

The spent antifreeze (ethylene glycol) is collected from automobile service stations. All antifreeze is collected by Safety-Kleen with the intent of it being 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 Medley branch, for off-loading into dedicated storage tanks. The comingled material (used antifreeze/used oil) is sent to the SK East Chicago re-refinery where the ethylene glycol is separated by distillation. The glycol is then sent to a recycler for processing into a pure product which is then sold on the open market. This procedure is in accordance with FDEP's *the Best Management Practices for Managing Used Antifreeze at Vehicle Repair Facilies,* dated May 22, 2012. The Florida Department of Environmental Protection (FDEP) has determined this waste stream can be handled as non-hazardous as long as it is destined for recycling. If used antifreeze collected by the Safety-Kleen Medley facility is sent to a facility other than the East Chicago re-refinery it will be managed as follows. The material will be segregated and off-loaded into a separate storage container/tote,then sampled and analyzed for glycol percentage. If the glycol percentage is acceptable it is sent to a recycler. If the glycol percentage is not acceptable a representative sample will be taken and sent for TCLP analysis to determine if it is a hazardous waste. It will be managed properly according to the TCLP analysis result. 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 then shipped to SK distribution centers, and then shipped to a recycler.

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-naphtha, etc.;
- Lubricating oils, hydraulic oils, synthetic oils, and machine oils, used antifreeze;
- Industrial halogenated solvents such as 1,1,1-trichloroethane, tetrachloroethylene, Freon, trichloroethylene, carbon tetrachloride, etc;
- Non-halogenated solvents such as cresols, nitrobenzene;
- Photographic and x-ray related wastes;
- Paint and lacquer thinners, acids/bases;
- Various returned/damaged/expired products from national retail chains. These are typical household products that may care U codes due to being unused commercial chemical products;
- 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 the transfer waste storage areas. 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. 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 permitted waste streams, most are liquid, and most originate from new products that are supplied to its customers in the original DOT approved containers. 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 container for that waste type (e.g., when Safety-Kleen collects Dry Cleaning wastes).

270.16(a), 264.190(a) Waste Compatibility with Tank System
264.191(b)(2), 264.192(a)(2)

The only hazardous waste stored in the RCRA-Permitted Hazardous Waste Tank (Used Solvent) 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, Waste on Drip Pads

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

Part II
A. General
6. Waste Analysis Plan (WAP)

The waste analysis plan (WAP) for the Safety-Kleen Medley facility is found in the Part II WAP section.

Part II
A. General
7. 264.12 Required Notices, 264 Subpart E Manifest System, Recordkeeping, and Reporting
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 – Very Small Quantity Generators (VSQGs), SQGs, and LQGs. VSQG's used parts washer solvent is removed via a service document/bill of lading and no manifest or Land Disposal Restrictions (LDR) form is required. Appropriate records are kept by the Branch as to the date of waste pick-up, quantity, and other data on the service document. A hazardous waste manifest and LDR form is completed for each SQG. LQGs' used parts washer solvent is always manifested (if hazardous) and an LDR form completed.

Used parts washer solvent (from each Safety-Kleen customer, regardless of generator status) is brought back to the Branch and dumped into the wet dumpster at return/fill shelter and pumped to the RCRA-Permitted Hazardous Waste Tank (Used Solvent). This tank contains the used parts washer solvent of many customers and is managed as hazardous waste. The contents are regularly sent via tanker truck to the recycle center in Lexington, SC. These loads are always manifested and accompanied by an 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. An electronic copy 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;
- 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 pre-print if a manifest is not used.

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

Part II

A. General

8. 40 CFR Part 270.3

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.

Tab 3

Part II

Preparedness, Prevention, Contingency Plan, and Emergency Procedures for Daily Business Operations

SAFETY-KLEEN SYSTEMS, INC.
MEDLEY FACILITY

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

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Revision Date: 9/20/2022

Safety-Kleen Medley, FL
Emergency Coordinator Phone Numbers

Primary: Daniel Vilarchao
14356 SW 159th St.
Miami, FL 33177
Office (305) 507-5499
Cell (305) 613-5230

Alternate: Bo Adams
2120 NW 30th Way
Ft. Lauderdale, FL 33324
Office (305) 507-5499
Cell (786) 778-6375

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

Florida DEP- Southeast District: (561) 681-6600 (Monday-Friday, 8:00 am to 5:00 pm except Holidays)

After Hours, please call FDEP Office of Emergency Response (561) 681-6767 or State Watch Office (800) 320-0519

If you are unable to contact the DEP at the above, please call:
National Response Center 1-800-424-8802

Poison Control Center: (800) 222-1222 or (800) 833-3505

Emergency Teams to be Notified:
Miami-Dade Fire Rescue
9300 NW 41st Street
Doral, FL 33178
(786) 331-5000 or 911

Medley Police Department
7777 NW 72nd Avenue
Medley, FL 33166
(305) 883-2047 or 911

Palmetto General Hospital
2001 West 68th Street
Hialeah, FL 33016
(305) 823-5000

October 28, 2022

Contingency Plan Quick Reference Guide

Safety-Kleen Systems, Inc.
8755 NW 95th Street
Medley, FL 33178

Facility Contacts:

Primary Emergency Coordinator:	Daniel Vilarchao	Mobile Number (24/7): (305) 613-5230
Secondary Emergency Coordinator:	Bo Adams	Mobile Number (24/7): (786) 778-6375
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: (I=ignitable, C=corrosive, R=reactive, T=toxic)

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment Personnel
Branch Contaminated Debris	D001 (**I**, flash point <140 °F), D004, D005 (**T**); F002, F003, F005 (tetrachloroethylene, trichloroethylene, acetone, methyl ethyl ketone, **T**)	North side of warehouse, container storage area	Four, 55-gallon drums (1,600 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Branch Contaminated Debris	D001 (**I**, flash point <140 °F), D004, D005, F002, F003, F005 (**T**) (tetrachloroethylene, trichloroethylene, acetone, methyl ethyl ketone)	Two Satellite accumulation areas as noted with (BCD) facility figure	One, 55-gallon drum at each location (400 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Waste Flammable Liquids/Toxic	D001 (**I**, flash point <140 °F), D035, U002 (**T**), (Acetone)	Central Warehouse, Transfer waste storage area	Two, 30-gallon drums (200 lbs.)	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	Treat symptomatically

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment personnel
Spent aerosol cans	D001 (**I**, flash point <140 °F), D035 (**T**) (methyl ethyl ketone)	North side of warehouse, container storage area	One, 30-gallon drum (100 lbs.)	In the event of excessive temperatures (fire) cans may depressurize and possibly explode in severe cases.	None
Spent aerosol cans	D001 (**I**, flash point <140 °F), D035 (**T**) (methyl ethyl ketone)	One Satellite Accumulation Area Warehouse – noted by (AC) on figure	One, 30-gallon drum (100 lbs.)	In the event of excessive temperatures (fire) cans may depressurize and possibly explode in severe cases.	None
Paint Gun Cleaner	D001 (**I**, flash point <140 °F), D018, D035, F003, F005 (**T**)	Central Warehouse – Transfer waste storage area	Fifteen, 5-gallon drums (600 lbs.)	In case of fire use carbon dioxide, regular foam, regular dry chemical, water spray and water fog for extinction. Use PPE to prevent contact with skin/eyes/respiratory system. Prevent sources of ignition and open flames.	If inhaled remove person to fresh air, if in eyes rinse cautiously with water for several minutes, if on skin remove immediately all clothing and rinse skin with water, if swallowed immediately call poison center, do not induce vomiting.
Waste Flammable Liquids	D001 (**I**, flash point <140 °F), D018, U002, U019, U154, U159 (**T**) (Acetone, Methanol)	Central Warehouse - Transfer waste storage area	Five, 5-gallon drums (50 lbs.)	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	Treat symptomatically

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment personnel
Paint Related Wastes	D001 (**I**, flash point <140 °F), D018, D035, F003, F005 (Benzene, Methyl Ethyl Ketone, Toluene, **T**)	Central Warehouse - Transfer waste storage area	Eight, 55-gallon drums (3,600 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Dry Cleaning Waste (Perc) Bottoms	D007, D039, D040, F002 (**T**)	Central warehouse - Transfer waste storage area	Four, 15-gallon drums (640 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment. Use PPE to avoid absorption into the respiratory tract.	Evaluate and support the airways, breathing and circulation. Establish intravenous access in seriously ill patients. Continuously monitor cardiac rhythm.
Dry Cleaning Waste (Perc) Filters	D007, D039, D040, F002 (**T**)	Central warehouse - Transfer waste storage area	Two, 30-gallon drums (178 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment. Use PPE to avoid absorption into the respiratory tract.	Evaluate and support the airways, breathing and circulation. Establish intravenous access in seriously ill patients. Continuously monitor cardiac rhythm.
Waste Toxic Liquids, Organic	U035, U036, U043, U044, U052, U058 (**T**) (Barium, Phenol)	Central warehouse - Transfer waste storage area	Ten, 5-gallon drums (400 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	Treat symptomatically

Hazardous Waste Information (continued):

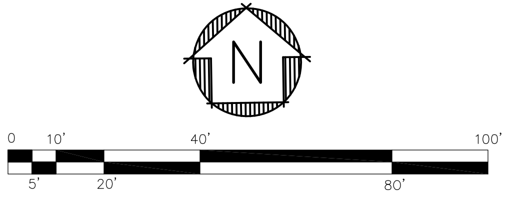
Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment personnel
Dry Cleaning Waste (Naphtha) Bottoms	D001 (**I**, flash point <140 °F), D007, D039, D040 (**T**)	Central warehouse - Transfer waste storage area	One, 16-gallon drum (162 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Dry Cleaning Waste (Naphtha) Filters	D001 (**I**, flash point <140 °F), D007, D039, D040 (**T**)	Central warehouse - Transfer waste storage area	One, 16-gallon drum (120 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Immersion Cleaner	D027, D039, D040 (**T**)	Central warehouse - Transfer storage area	Four, 16-gallon drums (280 lbs.)	Fire response: use carbon dioxide/dry chemical/alcohol resistant foam/water spray or water fog.	None
Hydrochloric Acid	D002 (**C**)	Central Warehouse, Transfer Trailer -Transfer waste storage areas	One, 55-gallon drums (400 lbs.)	Suitable extinguishing agents: water, dry chemical, chemical foam, carbon dioxide or alcohol-resistant foam. Combustion products may include carbon oxides or other toxic vapors. Use PPE to protect eyes, skin, and respiratory tract.	Move exposed persons to fresh air, wash affected areas with soap/water, rinse affected areas with water for at least 15 minutes. Seek medical attention immediately.
Waste Toxic Solids, Organic	U002, U010, U024, U025, U056 (**T**) (Selenium)	Central Warehouse - Transfer waste storage area	Eight, 15-gallon drums (400 Lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	Treat symptomatically

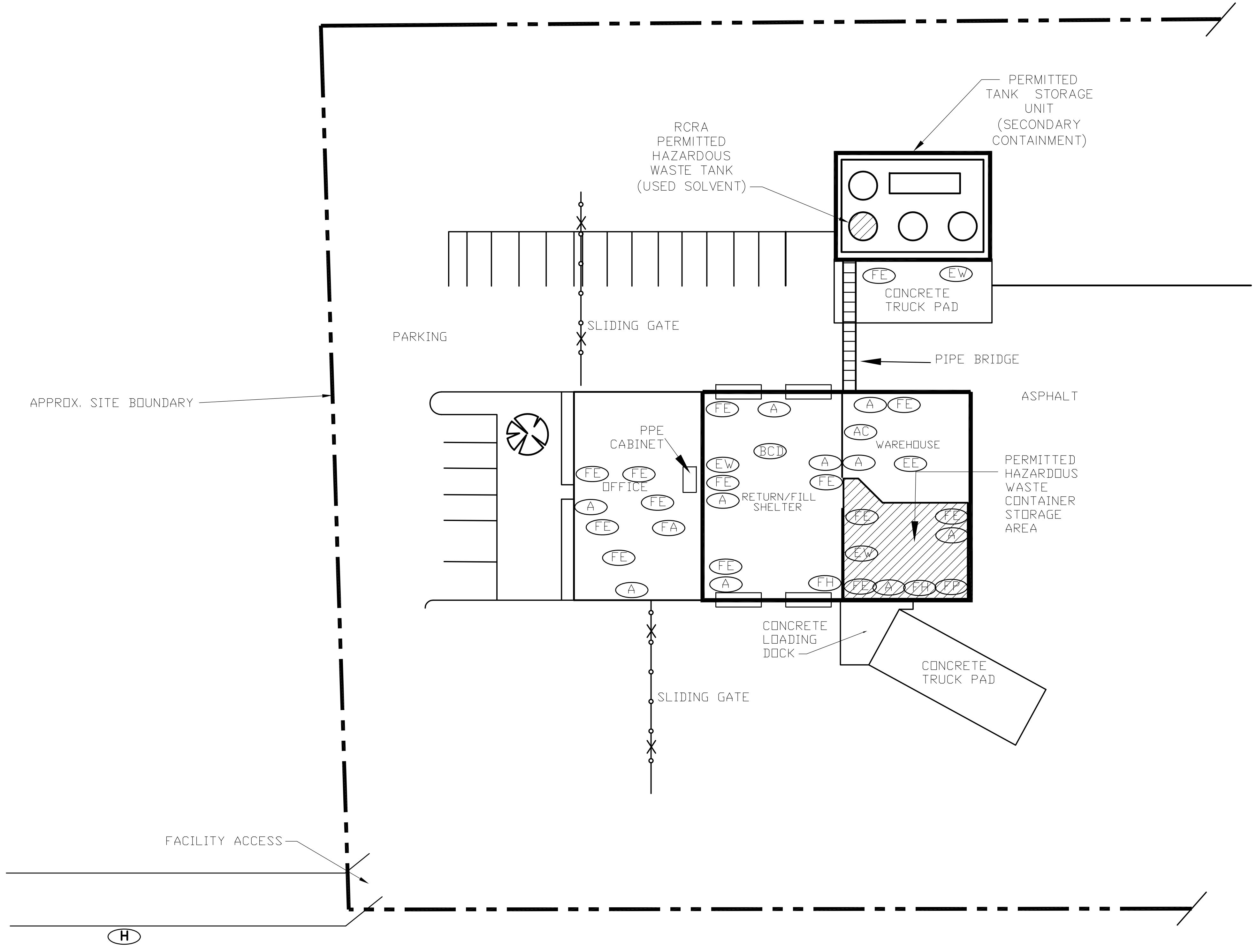
Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment personnel
Sulfuric Acid	D002 (**C**)	Central Warehouse - Transfer waste storage area	One, 55-gallon drums (400 lbs.)	Suitable extinguishing agents: water, dry chemical, chemical foam, carbon dioxide or alcohol-resistant foam. Thermal decomposition can lead to release of irritating gases & vapors. Use PPE to protect eyes, skin, and respiratory tract.	Move exposed persons to fresh air, wash affected areas with soap/water, rinse affected areas with water for at least 15 minutes. Seek medical attention immediately.
Waste Gasoline	D001 (**I**, flash point <140 °F), D008, D018 (**T**)	Central Warehouse - Transfer waste storage area	Two, 55-gallon drums (800 lbs.)	Use dry chemical, CO2, water spray or fire-fighting foam to extinguish. In the event of fire responders should use approved pressure-demand self-contained breathing apparatus with full-face piece and full protective clothing.	Do not induce vomiting if swallowed, rinse mouth, remove any contaminated clothing, rinse affected eye/skin areas with water. Seek immediate medical attention.
Waste Xylene	D001 (**I**, flash point <140°F), F003	Central Warehouse - Transfer waste storage area	Two, 30-gallon drum (230 lbs.)	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.	Inhaled – remove to fresh air, seek medical attention. Skin – remove clothing, rinse with water/shower. Do not induce vomiting if swallowed – call poison center.
Waste Mercury	D009, U151 (**T**) (Mercury)	Central Warehouse - Transfer waste storage area	Two, 5-gallon drums (20 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	Treat symptomatically

Hazardous Waste Information (continued):

Name of Waste	Waste codes/hazards	Location Accumulated	Maximum Amounts Present	Response Notes	Special Notes to Hospital/Treatment personnel
Ethanol Solutions	D001 (**I**, flash point <140 °F)	Central Warehouse - Transfer waste storage areas	Seven, 55-gallon drums (2,800 lbs.)	Prevent sources of ignition and open flames.	None
Waste Acetone	D001 (**I**, flash point <140°F), F003	Central Warehouse - Transfer waste storage areas	Four, 55-gallon drums (1,600 lbs.)	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.	Treat symptomatically
Paint Related Waste	D001 (**I**, flash point <140 °F), D018, D035, F003, F005 (**T**) (Benzene, Methyl Ethyl Ketone, Toluene)	Central Warehouse - Transfer waste storage areas	Twelve, 55-gallon drums (5,400 lbs.)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Used Parts Washer Solvent	D001 (**I**, flash point <140 °F), D018, D039, D040 (**T**)	North central side of the Facility – Tank Storage Area (Used Parts Washer Solvent Tank 15,000-gallon capacity)	Fifteen thousand gallons. (Note: Normal operating capacity is approximately 7,000 gallons)	If personnel come into direct contact with material, decontamination at the hospital may be required prior to treatment.	None
Waste Flammable Liquids, Toxic	D001 (**I**, flash point <140 °F), F003, U055, U113 **T**) (Ethyl Acrylate, Cumene)	Central Warehouse - Transfer waste storage areas	Six, 5-gallon drums (180 lbs.)	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	Treat symptomatically





QRG-7

LEGEND

—x—o—x—	CHAIN-LINK FENCE
——	HAZARDOUS WASTE MANAGEMENT AREAS
○	EXISTING ABOVEGROUND STORAGE TANK
▭	EXISTING ABOVEGROUND STORAGE TANK
EE	EMERGENCY EQUIPMENT AREA
FE	FIRE EXTINQUISHER
FP	FIRE PUMP
FH	FIRE HOSE
H	FIRE HYDRANT (500 GPM)
A	ALARM
FA	FIRST AID KIT
EW	EYEWASH/SHOWER
PPE	PERSONAL PROTECTIVE EQUIPMENT
BCD	BRANCH CONTAMINATED DEBRIS SATELLITE ACCUMULATION
AC	AEROSOL CAN SATELLITE ACCUMULATION

PROPRIETARY STATEMENT

NO.	DESCRIPTION	BY	CHK APPR	DATE

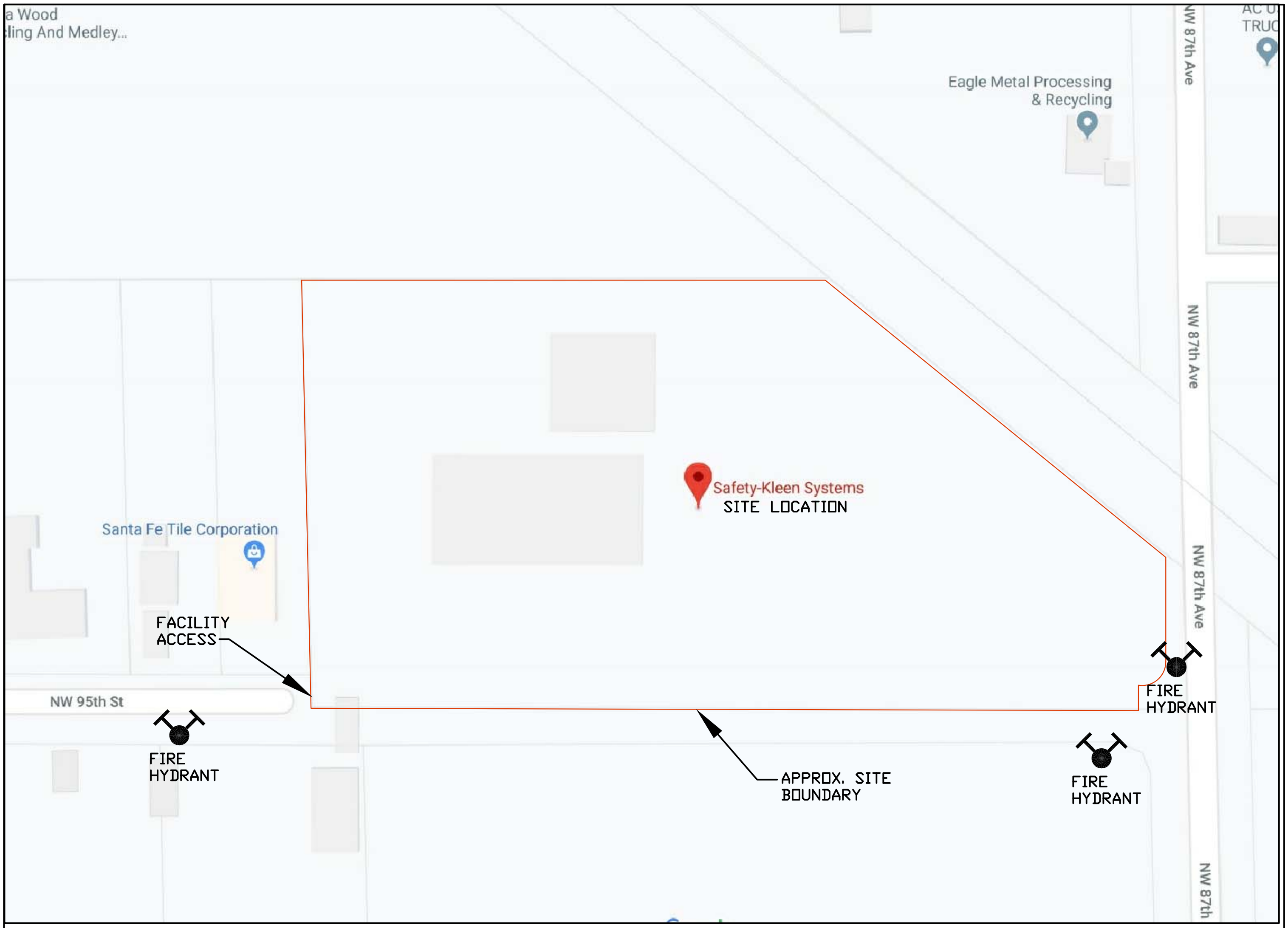
REVISIONS

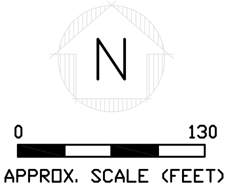
TITLE
QUICK REFERENCE GUICDE
SITE LAYOUT

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPR	OP. APPR	DATE
1"=20'-0"	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL.	7096-SP00-002	A





PROPRIETARY STATEMENT

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QUICK REFERENCE GUIDE STREET MAP

QRG-8

SAFETY–KLEEN SYSTEMS, INC.
2600 N. CENT EXPRESSWAY STE 400 RICHARDSON, TX. 75080
PHONE 800–669–5740

SCALE	BY	CHKD	APPR	OP. APPR	DATE
AS SHOWN	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL.	7096–SP00–027	A

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 Medley 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 store hazardous waste parts washer solvent (RCRA-Permitted Hazardous Waste Tank (Used Solvent)), and one 15,000-gallon tank and one 20,000 gallon tank are used for storage of Used Oil. One 10,000 gallon tank is for oily water. 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) at the Return/Fill Shelter. There is a screen at the bottom of the wet dumpster in which coarse solids in the parts washer solvents are retained. These solids are removed at the end of each day after all used parts washer solvent is dumped. Used parts washer solvent from the wet dumpster flows via 2-inch piping into the RCRA-Permitted Hazardous Waste Tank (Used Solvent). This piping runs east under the return/fill dock, turns north, and runs overhead to the tank farm building. The piping is connected by threaded connectors from the wet dumpsters to the end of the return/fill (inside secondary containment) and once leaving the return/fill it is connected by welded connectors until it reaches the permitted tank storage unit. Bulk hazardous waste parts washer solvent is picked up approximately every 20 days by a tanker truck from a Safety-Kleen TSDF, which at the same time delivers clean parts washer solvent. Solids/sludges removed from the wet dumpster are placed in a satellite accumulation container located next to the wet dumpster. When full, this container is stored as Branch generated waste in the container storage area for later shipment to a permitted Safety-Kleen or 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. This waste will be stored in the permitted container storage or 10-day transfer area.

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. Dry cleaning wastes are located in the permitted container storage or 10-day transfer area.

Used antifreeze collected and managed by Safety-Kleen within Florida is done so with the intent of it being recycled. The trucks used to collect and transport waste ethylene glycol are the same trucks used for collection and transportation of used oil. At the customer’s location, Safety-Kleen pumps used antifreeze and transports the material to the branch for off-loading into a dedicated tank for storage. The comingled material (used antifreeze/used oil) is sent to the SK East

Chicago re-refinery where the ethylene glycol is separated by distillation. The glycol is then sent to a recycler for processing into a pure product which is then 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. The Florida Department of Environmental Protection (FDEP) has determined this waste stream can be handled as non-hazardous as long as it is destined for recycling. If used antifreeze collected by the Safety-Kleen Medley facility is sent to a facility other than the East Chicago re-refinery it will be managed as follows. The material will be segregated and off-loaded into a separate storage container/tote, then sampled and analyzed for glycol percentage. If the glycol percentage is acceptable it is sent to a recycler. If the glycol percentage is not acceptable a representative sample will be taken and sent for TCLP analysis to determine if it is a hazardous waste. It will be managed properly according to the TCLP analysis result. 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 then shipped to SK distribution centers, and then shipped to a recycler.

Used antifreeze containers will be stored in the container storage area, or transfer area.

Safety-Kleen offers a used oil collection service commonly referred to as Safety-Kleen Oil Services (SKOS). Used oil is collected by straight tanker trucks and transported to the Medley branch for storage in the 15,000/20,000 gallon above ground storage tanks. The used oil is then typically transported to the SK Pompano Beach/Ocala facility where it is shipped via railcar to the Safety-Kleen East Chicago, IN re-refinery for processing. The branch is registered in Florida as a used oil transporter, and transfer facility.

Safety-Kleen also provides a paint waste reclamation service. Wastes containing various thinners and paints are collected in containers and are stored in the permitted container storage or 10-day transfer area.

The Fluid Recovery Service(FRS) is a program in which the facility manages containerized wastes as transfer wastes. These wastes are packaged in USDOT authorized packaging which are not opened until they reach a permitted Safety-Kleen/Clean Harbors TSDF. The FRS wastes are managed as transfer wastes. FRS hazardous wastes are managed as 10-day transfer wastes. While in storage at the branch, these wastes will be located in their respective transfer waste areas. The

FRS wastes may also undergo branch-to-branch or truck-to-truck transfer. This transfer will occur at the return/fill shelter 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 the Safety-Kleen website.

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/lamps are stored at the Branch in a designated area within the transfer waste storage area and labeled according to FAC 62-737.400(5)(b). 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 2.1-1 and 2.1-2 show the basic site and floor plans and the locations of waste management facilities and facility storage. Part I D.3 provides information regarding permitted/transfer/site generated wastes handled at the facility.

Safety-Kleen handles all types of 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 this same form if the electronic system is not available. A copy of the inspection form is found at the end of this plan. 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.
- A weekly check of the condition and inventory of communication devices will be made. This includes telephones, intercom, and emergency alarms.

Inspection of Security Equipment

Security equipment inspections are completed weekly on the CO Safety Security Inspection form. Security features include: gates and locks –looking for any evidence of sticking, corrosion, or unusual activity. The facility perimeter fence will be checked weekly for deterioration, gaps, and broken wire ties. Facility signage will be inspected for clarity. The container storage area security alarm system will be checked for operational status.

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 spots, and leaks.
- Check the automatic high level alarm. In addition, check the gauge level for each of 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/piping supports from the return/fill to the tank farm.
- 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 seal. 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 receptacles (wet dumpsters) will consist of an inspection for leaks and excess dumpster sludge/solid 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 Corporate Work Ticket Workbench. At this time an evaluation of the seriousness of the problem will be conducted and a decision made if the situation requires immediate action or the problem can be handled as routine maintenance. 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 with three (3) loud bursts to notify building occupants of an emergency. A head count will be performed by the emergency coordinator in the event of evacuation.

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 issued.
- In case of a release outside of the containment area that is deemed immediately uncontainable or unrecoverable, Safety-Kleen's 24 hr. emergency response system (800) 468-1760) and/or local emergency response agency 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-7 days a week availability).
- The coordinator must immediately notify the Southeast District of the FDEP, (561) 681-6600 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 reporting requirements outlined within the permit conditions of the operating permit.

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 Southeast District of the FDEP, at 3301 Gun Club Road, MSC 7210-1, West Palm Beach, FL 33406. The report must include:

1. 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 spill equal to, or less than 55 gallons of waste:

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 confirmed to be secure before movement.
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 product containers off the truck and into the customer's facility and returning the waste 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 spills equal to, or less than 55-gallons.
   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 appropriate protective equipment (PPE). Safety-Kleen spill response PPE requirements are: uniform (company issued), gloves (if chemical present use supported Neoprene as an outer glove), boots (steel toe with slip resistant soles), apron (if chemical present and SDS requirement). Dependent on the amount of the material spilled, clean-up will take place with absorbent material, or wet vacuum. 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 material and decontamination solution used to clean the affected area 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 within the Permitted Tank Storage Unit (Secondary Containment) are underlain by a concrete slab and surrounded by a concrete dike to contain any leaked, spilled or released material. The containment system has been sized in accordance with the applicable regulations, and the material will be totally contained under most leak, spill or release conditions. Should a leak, spill or release occur, arrangements must be immediately undertaken to recover the material. In the event of leak, spill, or release that involves a maintenance or integrity issue, tank repair or replacement will be initiated, whenever is deemed necessary. 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 notification/reports for leaks, spills, or releases equal to or less than one pound, and that are immediately contained and cleaned up.

Spill Control Procedures

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

1. 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 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/Clean Harbors 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 Watch Office ((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/Clean Harbors recycle center. In addition, the recovered solvent will be sent to a Safety-Kleen/Clean Harbors recycle center for reclamation.
5. 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 by the facility.

Spill/Release Response to Solid (Physical State) Waste(s)

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 Compliance and Health and Safety Departments.

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

Hazardous waste container storage takes place inside the warehouse building and is depicted on Figure 8.1-1. The containment system is sealed with an impermeable coating and is free of cracks. Containers are stored on pallets whenever possible, and double stacked. The warehouse has concrete floors, and collection trenches to form spill containment systems within the area. The container storage area is approximately 49¼’ x 80’ ft. area with a total containment capacity of 2,996-gallons. The maximum storage capacity is 29,400-gallons with 6,912-gallons of hazardous waste container storage. Wastes stored in this area may include used oil filters, paint wastes, branch generated debris, dry cleaning waste, spent immersion cleaner, and any overflow transfer waste if necessary. The types and numbers of containers may vary, however, the storage capacities 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 Medley facility are loaded/unloaded in the vicinity of the contained concrete dock on the southeast side of the building (Figure 2.1-2) and return/fill dock.
Because these areas are fully enclosed, spills originating in these areas should not come in to contact with stormwater.

FRS Wastes/10-Day Transfer Wastes

Transfer wastes will be located in the areas depicted in Figure 8.1-1. The containment system in the warehouse is coated, free of cracks, and is sufficiently impervious to prevent seepage into or through the concrete. FRS hazardous wastes are 10-day transfer only. They are not required to have containment, though they are stored in areas with containment. These areas are fully enclosed within the building. Spills in these areas should not come into contact with stormwater.

All containers are sealed during movement and are located within diked, concrete floored areas to contain any potential spill. Spills with quantities equal to, or less than 55-gallons 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 and packaged 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 Shelter

The return/fill shelter (Figure 9.3-1) is part of the enclosed building and sits between the Office Building and the Warehouse Container Storage Building. Sloping of the containment area is visually non-detectable. However, there is a slight slope toward the sumps (blind) built into the concrete floor surface in the center of the area. The entire width of the return/fill shelter has a 20-foot wide elevated steel grate, which is positioned approximately 33 inches above the concrete floor. There is drive over curbing at the north and south sides so that trucks can be positioned within containment during loading/unloading. The approximate containment capacity of the return/fill shelter is 3,693 gallons, as shown in the calculations in Appendix C, found at the end of the application. Two wet dumpsters are positioned on the steel grated area that each hold approximately 504-gallons of used parts washer solvent (though they are not intended for storage). Any spill that may occur on the concrete floor is directed by gravity into the sump. Any residual material remaining can be cleaned up with mops, wet/dry vacuums, or sorbent material, should a spill occur. Spilled used or clean parts washer solvent will be collected and placed into the wet dumpsters.

Doors in this area include four overhead roll-up doors (two to the north side and two to the south side) and two personnel doorways (one at the north side and one at the south side of the return/fill shelter and one next to the roll-up door leading from the return/fill shelter to the warehouse for employees). The floors of the office building and warehouse building are flush with the steel grated dock of the return/fill shelter (which is approximately 33 inches above the floor of the shelter). Therefore, spills originating on the steel grated area will be contained by the concrete floor and drive over curbing in the return/fill bays. Based on the capacity of the return/fill containment, it is extremely unlikely that a spill would escape the area. The return/fill shelter is covered by a fixed roof and areas directly outside the bays are asphalt covered, thus preventing direct contact with soils and ground water.

Tank Area

The permitted tank storage unit (secondary containment) (Figure 9.2-1) has a capacity for six above-ground storage tanks but currently houses five above-ground storage tanks (one-RCRA-permitted Hazardous Waste Tank (Used Solvent), one clean 150 premium solvent tank, two Used Oil tanks and one oily water tank) under a metal canopy. This unit is provided with 20,784 gallons of secondary containment, which is in excess of the single largest tank (20,000 gallons). The foundation slab is essentially flat but has a slight slope directed to a sump located in the center of the south side of the tank farm. Tank loading/unloading connections are located within the containment system on the south side of the tank farm. A drip pan is present under these connections. Any tank leaks or unloading spills will be controlled by the containment system, or the drip pan. This material may be readily removed by pumping from the containment system, sump, or drip pan by wet vacuum or sorbent material. The permitted tank storage unit has a metal canopy to prevent rainwater from entering the containment area. Should rain water enter the containment area it will be verified visually that no iridescent sheen exists before discharging to the ground outside. Only the Branch Manager or someone operating under his/her direct orders may discharge to the ground surface. If a spill has occurred from the used oil tanks, this material will be collected and pumped back into a used oil tank if the volume of the spill warrants. If it is a minor spill, it may just be cleaned up with absorbent material and placed into a branch generated container for disposal. A spill originated from the RCRA-Permitted Hazardous Waste Tank (Used Solvent) will be collected and pumped back into the tank if the volume warrants. Minor spills of this material may be cleaned up with absorbent material and placed into a branch generated container for disposal. If any rainwater exhibits an iridescent sheen indicating a mixture with solvent, then the rainwater will be pumped in to the used parts washer solvent tank via the wet dumpster at the return/fill shelter. Any spills which occur on the loading/unloading area 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 soil or surface waters.

EMERGENCY RESPONSE EQUIPMENT AND COMMUNICATION

Due to the small size of the facility, routine communication will be accomplished by voice communication. Emergency alarms are available at the return/fill shelter, permitted tank storage unit and the warehouse– these alarms can be activated manually and sound off in the office to indicate an emergency situation. High level alarms are available at the permitted tank storage unit. 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 response 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 near the return/fill dock. 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 Medley supplies water for domestic use, decontamination, and fire-fighting. The water pressure supplied by the City of Medley 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 permitted tank storage unit 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-Hg) 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: Dry-cleaning wastes are initially not flammable but may produce toxic gases and hydrochloric acid at elevated temperatures (about 1,200ºF).]

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 (ONLY out in front of the facility).

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, at least 2 ft., 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 Emergency 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 shelter, 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 a 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 Bulk Intermodal Distribution Services (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. Cam-lock 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, use of the public address system, or by sounding a car horn with 3 long bursts and are to assemble across the street from the entrance drive to the facility evacuation routes and the gathering point are noted on Figure 5.1-3 in this plan. A head count will be performed by the emergency coordinator at the gathering point to ensure all personnel, and any contractors or visitors are accounted for.

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:

1. 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.

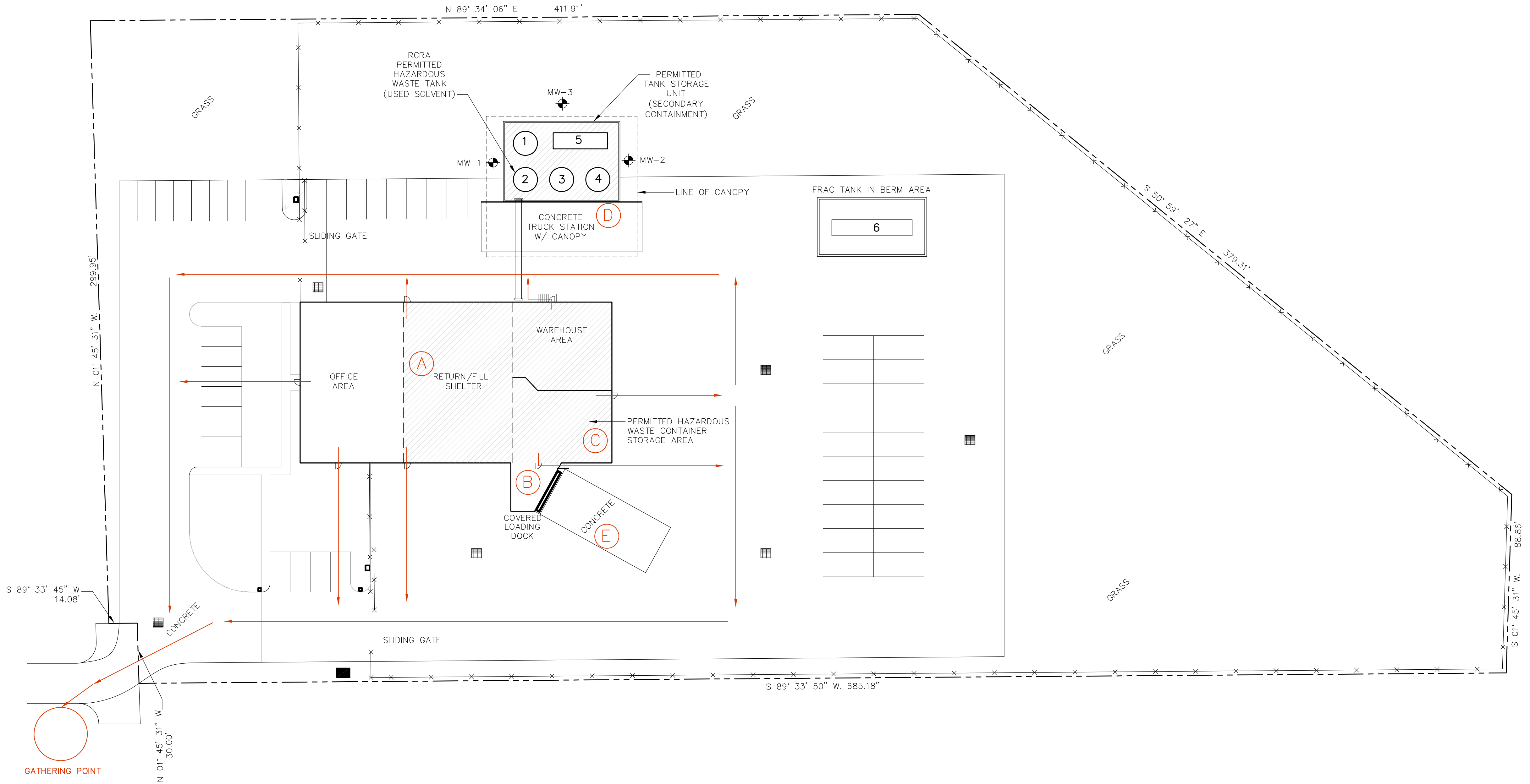
ARRANGEMENTS WITH LOCAL AUTHORITIES

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 (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 periodic fire inspections to ensure the Branch is 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.

Copies of this plan are submitted to the local authorities above via certified mail. In addition, Safety-Kleen attempts to obtain e-mail addresses so that electronic copies may be delivered. These local authorities receive paper/electronic copies of any changes/revisions to this plan when there are made, including changes to facility emergency contacts. If no response is received from these local authorities, Safety-Kleen will follow up by contacting the specific authority by telephone.

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.



GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

LEGEND

— - - —	PROPERTY BOUNDARY
×—×—×	CHAIN LINK FENCELINE
▨	HAZARDOUS WASTE MANAGEMENT AREAS
▭ ○	EXISTING ABOVE GROUND STORAGE TANKS
MW-1 ⊕	GROUND WATER MONITORING WELL
▦	STORM WATER CATCH BASIN

Ⓐ	PARTS WASHER SOLVENT DRUM DUMP/BARREL WASH/REFILL (TRUCKS DO NOT DRIVE THROUGH BLDG.
Ⓑ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTES FRS (TRANSFER) FROM TRUCKS
Ⓒ	LOADING AND UNLOADING OF DRUMS CONTAINING SOLVENTS AND WASTE FROM LOCAL AREA VANS AND TRUCKS
Ⓓ	LOADING AND UNLOADING OF PARTS WASHER SOLVENT (COVERED DRIVEWAY) USED OIL AND OILY WASTEWATER
Ⓔ	LOADING CONTAINERIZED WASTE FROM TRUCKS FOR SHIPMENT TO RECYCLE CENTERS

PROPRIETARY STATEMENT

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SAFETY-KLEEN CORP. AND IS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE DUPLICATED, USED, DIVULGED, REPRODUCED, COPIED, DISCLOSED OR APPROPRIATED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN AS EXPRESSLY AUTHORIZED BY SAFETY-KLEEN CORP. THIS DRAWING MUST BE RETURNED PROMPTLY UPON REQUEST.

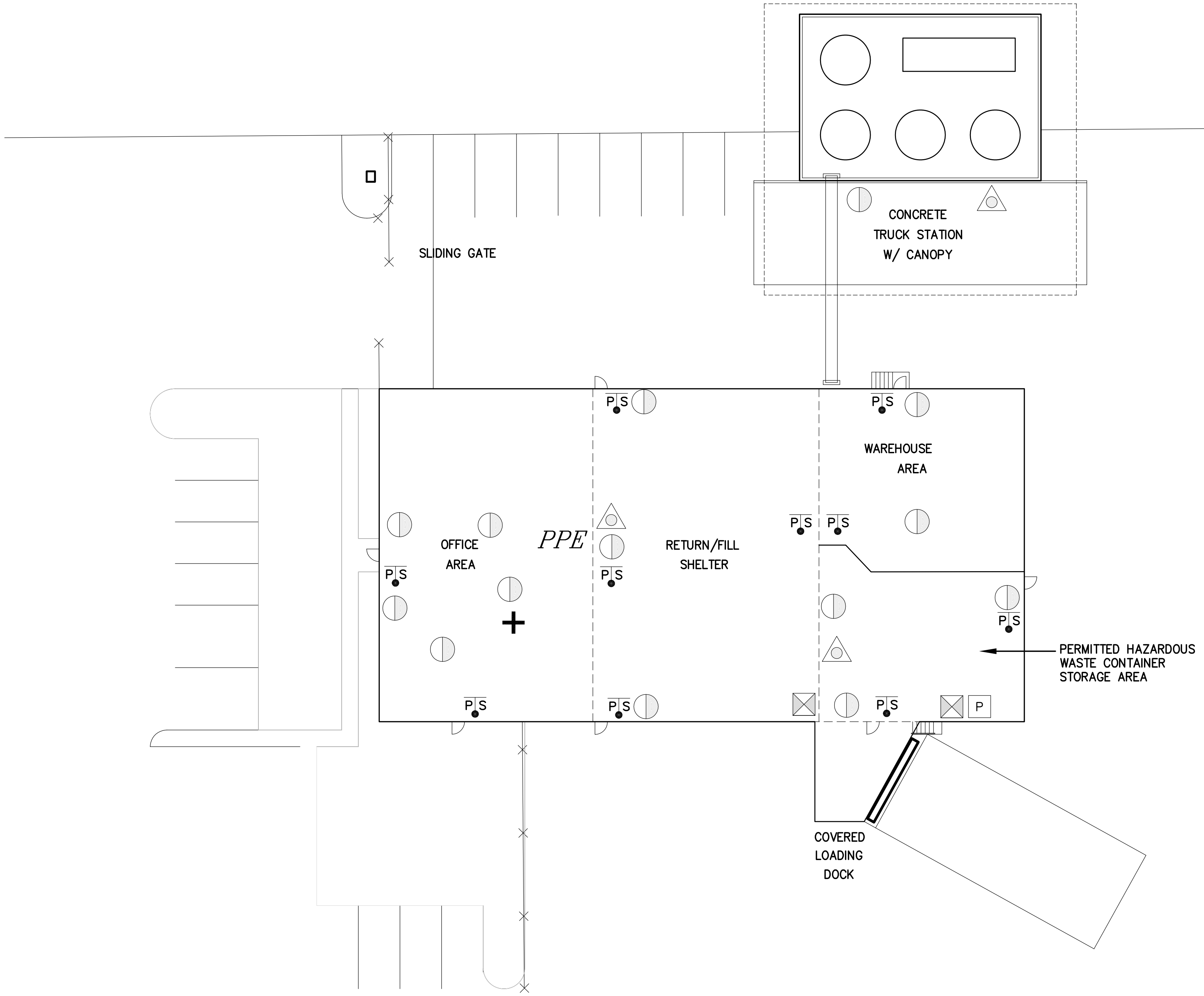
TITLE

FIGURE 5.1–3
EVACUATION ROUTES

SAFETY–KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781–792–5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL	7096–SP00–001	A



LEGEND

⦶	DRY CHEMICAL FIRE EXTINGUISHER – HAND HELD TYPE (10 # ABC)
+	FIRST AID KIT
△	EYEWASH/SHOWER
EE	EMERGENCY EQUIPMENT AREA
PS	PULL STATION (ALARM)
☒	FIRE HOSE
P	FIRE PUMP
PPE	PERSONAL PROTECTIVE EQUIPMENT

PROPRIETARY STATEMENT

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SAFETY-KLEEN SYSTEMS, INC. AND IS PROPRIETARY AND CONFIDENTIAL INFORMATION. THIS DRAWING AND THE INFORMATION CONTAINED THEREIN MUST NOT BE DUPLICATED, USED, DIVULGED, REPRODUCED, COPIED, DISCLOSED OR APPROPRIATED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAT AS EXPRESSLY AUTHORIZED BY SAFETY-KLEEN SYSTEMS, INC. THIS DRAWING MUST BE RETURNED PROMPTLY UPON REQUEST.

TITLE

FIGURE 5.6-1
LOCATIONS OF EMERGENCY EQUIPMENT

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	P.E. APPR	OP. APPR	DATE
1/16" = 1'-0"	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	STD-DWG. NUMBER	REV NO.
MEDLEY, FL.	7096-SP00-024	A

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

REVISIONS

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	Inadequate supply	Weekly
	Communication Devices	Equipment failures	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 Hoses	Pump Seals	Leaks	Daily
	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 Shelter	Wet Dumpster	Excess sediment build-up, leaks, rust, split seams, distortion, deterioration, excess debris	Daily
Container Storage Area	Total Volume in Storage	Exceeds permitted limit	Daily
	Condition of Drums	Missing or loose lids, labels missing, incomplete or incorrect, rust, leaks, distortion	Daily
	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)	Warehouse Return/Fill Area Office Area Tank Storage Area	4 4 5 1
Eyewash	Fountain	Warehouse Return/Fill Area Drum Return/Fill Area	1 1 1
First-Aid	OSHA Compliant	Office Area	1
Telephones	Standard	Managers Office	1
Telephones	Standard	Secretary's Desk	1
Telephones	Standard	Warehouse	1
Intercom	Explosion Proof	All Buildings	N/A
Gloves	Rubber	PPE Cabinet	Min. 3
Boots (Optional)	Rubber	Emergency Equip Area	Min. 3
Protective Clothing	Apron	PPE Cabinet	Min. 3
Eye Protection	Goggles/Safety Glasses	PPE Cabinet	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	PPE Cabinet	Min. 1
Pump	Hand-held, Electric	Emergency Equip Area	Min. 1
Wet/Dry Vacuum	Portable, Electric	Emergency Equip Area	1
Empty Drums for Overpack	30, 55, 85 gal.	Container Storage Area	9
Fire Sprinkler System	Foam	Container Storage Area	1

TABLE 5.8-1

DESCRIPTION AND USES OF EMERGENCY EQUIPMENT

Item	**Location**	**Use/Description**
Gloves	PPE Cabinet	The rubber plastisol gloves sold by Safety-Kleen are to be used when handling the solvents.
Safety Glasses or Face Mask	PPE Cabinet	To be worn when loading or unloading solvent.
Plastic Aprons	PPE Cabinet	For situations where a solvent may get on the workers clothing.
Eyewash Stand	Container storage area Return/Fill Area Tank Farm	Employees should operate the stand and become familiar with its operation
Showers	Office Area/Locker room	These are used for emergency and routine cleaning of employees
Fire Extinguisher	See Figure 5.6-1 (locations of emergency equipment)	An ABC extinguisher is a universal system used on paper, wood, and electrical, as well as solvent fires. The extinguishers must be full and carry an inspection tag.
Absorbent Material	Loading/Unloading Area/Warehouse	An adequate supply will be on hand to handle small spills. A 50 lb bag will also be kept in the warehouse to remediate and prevent spread of large spills
Air Purifying Respirator	Employee Lockers/Extra respirator is kept in the Emergency Equipment Area	Worn by any person entering an area or performing work where potentially harmful fumes are present or suspected to be present but not considered to be immediately dangerous to life and health
Portable Pumps Wet/Dry Vac	Warehouse	For use in picking up liquid spills in the container containment area, or other paved areas, and transfer materials associated with spills
Recovery Containers	Warehouse	Emergency storage of spilled product, cleaning fluids, or 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 Area	Minor first-aid needs and health problems
Shovels/Mops	Warehouse	Used to collect spills and residue
Communication Equip	Facility Wide	Phones with intercom systems in office/warehouse for internal and external communications
Decon. Equip.	Warehouse	2 brushes, box of detergent, rags, available for decon of clean up equip.
Fire Sprinkler System	Warehouse	An automatic sprinkler system that is activated in case of fire in the building

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, battery 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 is adequate, in the correct location, correct type of equipment, 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, correct location, other).	
Bloodborne Pathogen Kits - Check for evidence of availability (e.g., adequate inventory, correct location, correct type, other).	
Emergency Eyewashes - Check for evidence of failure (e.g., disconnected or malfunctioning valves, inadequate pressure, inaccessible, malfunctioning drain, leaking, correct location, adequate type and inventory, other).	
Emergency Showers - Check for evidence of failure (e.g., disconnected or malfunctioning valves, inadequate pressure, inaccessible, leaking, correct location, adequate type, adequate inventory, 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, correct location, correct type, not charged, inaccessible, adequate inventory, other).	
Absorbent Supply - Check for evidence of availability (e.g., adequate inventory, correct location, correct type, other).	
Recovery Drum Supply - Check for evidence of availability (e.g., adequate inventory, correct location, correct type, other).	
Respirators and Cartridges - Check for evidence of availability (e.g., adequate APR inventory, correct location, correct type, 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, correct location, 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).	
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, correct location, correct type, other).	
Portable Sump Pumps - Check for evidence of availability (e.g., adequate inventory, functioning properly, correct location, correct type, 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	

Appendix A

Example Letters to Local Authorities

____
(Date)

Certified Mail

Metro Dade Fire Rescue
9300 NW 41st Street
Miami, FL 33178

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

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. Also enclosed are Safety Data Sheets (SDSs) for materials handled at the facility.

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 (305) 884-0123.

Sincerely,

Branch Manager
Safety-Kleen - Medley

Enclosures

____
(Date)

Miami-Dade Fire Rescue
9300 NW 41st Street
Miami, FL 33178

Branch Manger
Safety-Kleen Systems, Inc.
8755 NW 95th Street
Medley, FL 33178

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

Dear Branch Manager:

This is to acknowledge that the Miami-Dade Fire Rescue has been made aware of the potential need for emergency assistance associated with the operation of the Safety-Kleen Systems, Inc. (SK) facility at 8755 NW 95th Street, Medley, FL 33178. The Miami-Dade Fire Rescue 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 Medley, Florida facility.

The Miami-Dade Fire Rescue __________________ (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems, Inc. facility at 8755 NW 95th Street, Medley, FL 33178.

Sincerely,

____
(Signature)

____
(Title)

____

(Date)

Certified Mail

Medley Police Department
7777 NW 72nd Ave
Medley, FL 33166

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

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. Also, enclosed are Safety Data Sheets (SDSs) for materials handled at the facility.

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 (305) 884-0123.

Sincerely,

Branch Manager
Safety-Kleen – Medley

Enclosures

____
(Date)

Medley Police Department
7777 NW 72nd Ave
Medley, FL 33166

Branch Manager
Safety-Kleen Systems, Inc.
8755 NW 95th Street
Medley, FL 33178

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

Dear Branch Manager:

This is to acknowledge that the Medley 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 8755 NW 95th Street, Medley, FL 33178. The Medley 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 Medley, Florida facility.

The Medley Police Department __________________ (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems, Inc. facility at 8755 NW 95th Street, Medley, FL 33178.

Sincerely,

____
(Signature)

____
(Title)

____
(Date)

Certified Mail

Hospital Administrator
Palmetto General Hospital
2001 W. 68th Street
Hialeah, FL 33016

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

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. Also enclosed are Safety Data Sheets (SDSs) for materials handled at the facility.

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 (305) 884-0123.

Sincerely,

Branch Manager
Safety-Kleen – Medley

Enclosures

____
(Date)

Hospital Administrator
Palmetto General Hospital
2001 W. 68th Street
Hialeah, FL 33016

Branch Manager
Safety-Kleen Systems, Inc.
8755 NW 95th Street
Medley, FL 33178

RE: Safety-Kleen Systems, Inc. (309702), 8755 NW 95th Street, Medley, FL 33178

Dear Branch Manager:

This is to acknowledge that the Hospital Administrator, Palmetto General 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 8755 NW 95th Street, Medley, FL 33178. The Hospital Administrator, Palmetto General 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 Medley, Florida facility.

The Hospital Administrator, Palmetto General Hospital _________________ (agrees/declines) to be available to provide emergency assistance for the Safety-Kleen Systems, Inc. facility at 8755 NW 95th Street, Medley, FL 33178.

Sincerely,

____
(Signature)

____
(Title)

Tab 4

Part II

Waste Analysis Plan

Part II

Waste Analysis Plan (WAP)

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

Waste analysis at the Safety-Kleen Medley 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 from the time they are collected at the customer location, while in storage at the SK Medley Branch, and 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. When a new service is placed with a new, or existing customer, the customer must agree to certify that they "will not introduce any substance into the parts washer solvent or aqueous cleaning solution, including without limitation any hazardous waste or hazardous waste constituent, except to the extent such introduction is incidental to the normal use of the machine". The customer further agrees that they will not clean parts/paint guns that have been contaminated with or otherwise introduce PCBs, herbicides, pesticides, dioxins, or listed hazardous wastes into the parts washer solvent or aqueous cleaning solution or said waste would not be accepted by Safety-Kleen as a core waste. In addition, the Safety-Kleen machine label provides operating and safety information which includes a statement that the addition of any other chemical or cleaner to the parts washer solvent is prohibited.

Information supplies to the customer 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:

1. The quantity of used parts washer solvent in the drum. Safety-Kleen knows the volumes of solvent provided for each parts washer model and customer owned machines. These clean volumes are listed on all Safety-Kleen service documents. When the amount of parts cleaner solvent or immersion cleaner fluid is more than 10% greater than originally supplied, the container will not be immediately accepted by the service representative. 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 parts washer solvents. However, if in the normal course of servicing the parts washer machine, the odor of the fluid in the container is noticed to be different from that of parts washer solvent or immersion cleaner, the container will not be immediately accepted by the service representative. The SK representative will inquire with the customer regarding operation and handling practices of the parts washer machine and based on the response received from the customer the container will either be left at the site or accepted.
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 field qualitative analysis in our service document (typically a handheld computer printout).

As indicated in each of the qualitative/visual analysis, if the answers provided by the customer as 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 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 if not acceptable as solvent.

At the Safety-Kleen Branch Service Center, the Safety-Kleen Representative or Material Handler is responsible for either accepting or rejecting the waste upon completing the following procedure:

- Review the manifest or shipping document for accuracy and completeness;
- Check the container label for completeness and consistency with the manifest or shipping document;
- Check the condition of each container and verify that it is USDOT approved;
- Verify that each container type is consistent with the information on the manifest or shipping document;
- Observe quantity, odor, and appearance prior to accepting used parts washer solvent and dumping into the wet dumpster. Dry-cleaning, paint waste, and immersion cleaner waste containers are not opened and inspected at the branch.

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 generator’s direction. Records of all sampled and/or rejected wastes will be kept on file at the Medley branch.

In addition, receipt analysis is performed by the Safety-Kleen Recycle Centers on all inbound bulk solvent waste deliveries from the Branch Service Centers. 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 Annual Recharacterization (AR) program (Quantitative Analysis).

Analytical data from the Annual Re-characterization sampling is subjected to an EPA SW846 approved statistical model (Exhibit C-1, found at the end of the WAP). 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. 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 used 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.

The waste streams collected by Safety-Kleen are relatively 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 permitted or 10-day transfer waste.

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 2022 are based on samples analyzed in 2019, 2020, and 2021. 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 2019/2020/2021, samples from 2018 will also be incorporated into the population.

In reviewing with Dr. Gibbons how the number of data points was derived he wrote in an 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 Re-characterization 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, found at the end of the WAP). 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 2021 (for 2022 waste codes) were:

CUSTOMER GENERATED	SAFETY-KLEEN GENERATED
Immersion Cleaner	Bulk Solvent
Parts Washer Solvent	Dumpster Sludge
Paint Gun Cleaner/Paint Wastes	Tank Bottoms
Dry Cleaner (Perchloroethylene and Naphtha, filters, bottoms and separator water)	Branch Debris
Aqueous Brake Cleaner	
Aqueous Parts Washer Solvent	

AR Sample Testing Protocol is located in Exhibit C-4, found at the end of the WAP. Procedures used for obtaining the samples is included in Exhibit C-5, found at the end of the WAP. 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 an independent NELAP accredited environmental laboratory

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 parts washer 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 264.13(b)(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), 264.13(b)(1) Parameters and Rationale

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

- Used parts washer solvent (petroleum naphtha/mineral spirits)
- Aqueous Parts Waste Solvent
- Solvent immersion cleaner
- Paint waste
- Dry Cleaner – Perchloroethylene

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), 264.13(b)(2) Test Methods

Exhibit C-4, found at the end of the WAP, details the AR sample testing protocol.

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

AR Sampling Method Requirements are outlined in Exhibit C-5, found at the end of the WAP.

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

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) for Safety-Kleen's core waste streams. 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), 264.13(b)(6)(c), 264.17 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 container storage area, located inside the warehouse, is where ignitable waste is stored are designed for this material. 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 hazardous waste containers opened at the facility are the used parts washer solvent wastes, which are eventually consolidated into the RCRA-Permitted Hazardous Waste Tank (Used Solvent) within the Permitted Tank Storage Unit. Used Parts Washer Solvent in this tank is considered ignitable. No other waste streams are added to the tank.

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

All of the permitted waste streams received and stored at the Medley 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 Branch Service Center does not dispose of any hazardous wastes onsite and does not send any permitted wastes to land disposal facilities. Therefore, the Medley 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), 268.1, 268.7, 268.9, 268.32-37, 268.41-43 Waste Analysis

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), 268.2(d), 268.2(f), 268.7, 268.30, 268.31 Spent Solvent and Dioxin Containing Waste

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), 268.7, 268.32, 268.42(a) California List Wastes

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), 268.7, 268.33-36, 268.41-43 Listed Wastes

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

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 $\geq$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, 264.73, 268.7, 268.9(d) Notification, Certification, and Recordkeeping Requirement

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 Medley facility.

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

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, 268.7(b) Notification and Certification Requirements for Treatment Facilities

This Safety-Kleen Medley Branch is not a treatment facility; therefore, this section does not apply.

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

The Safety-Kleen Medley Branch is not a Land Disposal facility; therefore, this section does not apply.

270.14(a), 264.13, 268.7(a)-(b)(6) Waste Shipped to Subtitle C Facilities

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

270.14(a), 264.13, 268.7(d), 268.9(d) Waste Shipped to Subtitle D Facilities

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

270.14(a), 264.13, 268.7(b)(6) Recyclable Materials

Safety-Kleen Medley 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, 264.73, 268.7(a)(5)(6)(7)(d) Recordkeeping

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

270.14(a), 264.73, 268.50 Requirement Pertaining to Storage of Restricted Wastes

270.14(a), 264.73, 268.50(a)(2)(i) Restricted Waste Stored in Containers

270.14(a), 264.73, 268.50(a)(2)(ii) Restricted Waste Stored in Tanks

Safety-Kleen Medley stores restricted wastes in the RCRA-Permitted Hazardous Waste Tank (Used Solvent), and in 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. The hazardous waste tank is marked with its' 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, 268.50(f) Storage of Liquid PCB Wastes

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

270.14(b)(21), 268.6 Exemption from Prohibition

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

270.14(a), 264.73, 268.7, 268.44 Variance from a Treatment Standard

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

270.14(a), 264.13(b)(7), 268.4, 268.14	***Requirements for Surface Impoundments Exempted from Land Disposal Restrictions***
270.14(a), 268.13, 268.14	***Exemption for Newly Identified of Listed Wastes***
270.14(a), 264.13, 268.4(a)(1)(b)	***Treatment of Wastes***
270.14(a), 264.13(b)(6), 268.4(a)(2)(i)(iv)	***Sampling and Testing***
270.14(a), 264.13(b)(7)(iii), 268.4(a)(2)(ii)	***Annual Removal of Wastes***
270.14(a), 264.13, 268.4(a)(3),(4)(b), 268.14	***Design Requirements***

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

Exhibit C-1

Statistical Model (Dr. Gibbons)

THE UNIVERSITY OF
CHICAGO
BIOLOGICAL SCIENCES

**DEPARTMENTS OF MEDICINE, PUBLIC SCIENCES,
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August 7, 2018

A Review of the Safety Kleen Statistical Waste Characterization Plan

In 1998, I prepared an annual statistical waste characterization plan for Safety Kleen based on a fully nonparametric approach to computing the 90% upper confidence limit for the 50th percentile of the distribution of analytic measurements. The motivation for the nonparametric approach was based on the non-normality of the distribution of analytic measurements observed at that time and even more importantly, the large proportion of measurements that did not detect the analyte in the sample; so called “non-detects.” Motivation for this methodology was laid out in U.S. EPA SW846 (1986) and more recently in the U.S. EPA Unified Statistical Guidance Document (2009) see section 21.2. As noted in the Unified Guidance, “The advantage of a nonparametric interval around the median is its greater flexibility to define confidence intervals on non-normal data sets.”

Recently, IL EPA has suggested that based on the OSWER 2002 Guidance, the nonparametric UCL that has been in use over the past 20 years should be replaced by the Chebyshev Inequality Method, which is a distribution free method. Using this method, the computed UCL for tetrachloroethylene (PCE) exceeded the regulatory standard whereas the nonparametric UCL did not. In the following, I try to shed light on this discrepancy.

To begin, nonparametric UCLs and distribution-free UCLs are in fact quite different. While neither method assumes a specific parametric form for the analyte distribution, the distribution free methods (e.g., Chebyshev Inequality Method) rely upon having a known population variance or standard deviation. Of course we never know the true standard deviation for the population, so practitioners typically substitute the observed standard deviation. As such, they are incorrect from the start. As noted in this guidance document, these distribution free methods break down when the detection frequency is low as is the case here. For PCE, only 8 of 31 measurements were detected (25.8%), and the largest measurement is an order of magnitude larger than the second largest measurement (51.72 vs. 5.8) suggesting the possibility that it is an outlier. As noted in the OSWER guidance, “If the proportion of non-detects is high (75%) or the number of samples is small (n<5), no method will work well.” This is true for the parametric or distribution free methods described in the document, but this is not true for the nonparametric methods (with n>20) that have been used by Safety Kleen for the past 20 years. In fact, the nonparametric methods are based only on the rank ordering of the data and do not require either known or estimated values of the mean and variance as the distribution-free methods do and which break down in the presence of large numbers of non-detects and/or extreme skewness “As skewness increases further, the Chebyshev method is not recommended”. The skewness of the PCE data produced by the large number of non-detects for which IEPA imputed DL/2 and the presence of a single extreme value is an example of extreme skewness. Non-detects and skewness have no effect on the nonparametric UCL used by Safety Kleen for the past 20 years and there are no distributional assumptions or summary statistics required to compute the UCL.

Sincerely yours,

Robert D. Gibbons Ph.D.

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[1] 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.

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[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* x 100th percentile of interest (e.g. the 50th percentile or median),[5] where *P* is between 0 and 1, and *n* concentration measurements, the probability that any randomly selected concentration measurements being less than the *P* x 100th percentile is simply *P* and the probability of exceeding the *P* x 100th percentile is 1 - *P*. In light of this, the number of sample values falling below the *P* x 100th 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

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

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 - α is equal to at least .90. The smallest value of U that provides 1 - α ≥ .9 is then the order statistic (i.e., ranked value) that is the nonparametric 90% UCL for the 50th percentile of the distribution.

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[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.

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 *Statisti-*

cal 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 nonparametric 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:

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

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, $\bar{x}$ 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 lognormal, the $(1-\alpha)100\%$ lognormal prediction interval for the median of the next m measurements is:

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

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

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

and the upper prediction limit is

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

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

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

where

$$g(i,r+i,m,n) = \frac{\begin{pmatrix} r-1 \\ i \end{pmatrix}\begin{pmatrix} n-r \\ n-i \end{pmatrix}}{\begin{pmatrix} n \\ m \end{pmatrix}} \tag{6}$$

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

$$G(l, u-1, r, m, n) \geq 1 - \alpha/(2k) \;, \tag{7}$$

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

Constituents used in the Analysis

Waste Stream	Constituent	CA UCL in mg/L	Nat'l UCL in mg/L	Reg Limit in mg/L
Antifreeze	PCE	272	NA	0.7
Auto Oil	PCE	696	NA	0.7
Auto Oil	Benzene	21	NA	0.5
Immersion Cleaner	1,4-DCB	80	140	7.5
Immersion Cleaner	pH	10.5	10	2-12.5
Paint Waste	TCE	64	27.1	0.5
Parts Washer Solvent 105+150	1,4-DCB	.54	<2.0	7.5
Parts Washer Solvent 105+150	2-methylphenol	.44	1.8	200
Parts Washer Solvent 105+150	Benzene	8.7	2.2	0.5
Parts Washer Solvent SDM	pH	8.7	8.2	2-12.5
Parts Washer 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 SW846 1010
	pH	EPA SW846 9045
	Apparent Specific Gravity and Bulk Density of Waste	ASTM D5057
	TCLP Metals	EPA SW846 1311, 6010, 7470, 7471
	TCLP Semi-Volatiles	EPA SW846 1311, 8270
	TCLP Volatiles	EPA SW846 1311, 8260
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 Cleaner	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 O310-005 (US) and OC310-005/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 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.

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.

3. A unique identification number must be assigned to each sample using the format ***AR2017_DEPT ID_sample description*** (e.g., AR2017_77WIB_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
  - ASTM D5495 - *Standard Practice for Sampling with a Composite Liquid Waste Sampler (COLIWASA)*
  - 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	1 quart DOT SP-9168 Exemption Packaging	Grab sample Stir/mix content of drum with COLIWASA before sampling	COLIWASA or Scoop
Immersion Cleaner	Drum	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	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

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	1 quart TCLP kit	Grab sample 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	1 quart TCLP kit	Grab sample Stir/mix content of drum with COLIWASA before sampling	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.
2. 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 **frozen freezer packs**. 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.

Revised 3/1/2017
Rick Haskins

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
    - 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.
- 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.

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Rick Haskins

BRANCH PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

WORKPLACE HAZARD ASSESSMENT SUMMARY 2015

TASK								
AQUEOUS BLENDING (MANUAL)	Yes (Np)	Yes	Yes*		S.T w/M	Goggles	Yes, w/pneumatic	
AQUEOUS SERVICE - COLD	Yes (Np)	Yes		Yes	S.T w/M	Yes		
AQUEOUS SERVICE - HEATED	Yes (Np)	Yes		Yes	S.T w/M	Yes		
AQUEOUS TEST ANALYSIS	Yes (Nr or Cp)	Yes		Yes	S.T w/SR	Yes		
BRAKE CLEANING (ABC)	Yes (Np	Yes		Yes	S.T w/M	Yes		
COOLANT SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
CONTAINERIZED WASTE (CWS)	Yes (Np)	Yes		Yes	S.T w/M	Yes		
DRY CLEANER SERVICE	Yes (Np)*	Yes		Yes	S.T w/M	Yes		
GUN CLEANERS - UNVENTED	Yes (Np/ Cp)*	Yes		Yes	S.T w/M	Yes		APR=HF or FF/Organic vapor
GUN CLEANERS - VENTED	Yes (Np/ Cp)*	Yes		Yes	S.T w/M	Yes		
IMAGING SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
IMMERSION CLEANER SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
LIGHT BULB SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
MATERIAL HANDLING	Yes (Np)	Yes		Yes	S.T w/M	Yes		
OIL SERVICE	Yes (PVC or Np)	Yes		Yes	S.T w/SR	Yes		
PARTS WASHER SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
RETURN/FILL OPERATIONS	Yes (Np)	Yes	Yes*	Yes	S.T w/SR	Yes	Yes, w/pneumatic	

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BRANCH PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

WORKPLACE HAZARD ASSESSMENT SUMMARY 2015

TASK								
RETURN PRODUCT SERVICE	Yes (Np)	Yes		Yes	S.T w/M	Yes		
SAMPLING - FIELD	Yes (Nc)	Yes	Yes*	Yes	S.T w/SR	Yes		APR=FF/ ORG. vapor/acid gas
SPILL RESPONSE (INCIDENTAL)	Yes (Np)	Yes	Yes*	Yes	S.T w/SR	Yes		APR=HF or FF/ ORG. vapor/acid gas
TANK TRUCK LOAD/UNLOAD	Yes (PVC or Np)	Yes		Yes	S.T w/SR	Yes		
TANK TRUCK TOP SAMPLING	Yes (PVC or Np)	Yes		Yes	S.T w/SR	Yes		
VAC SERVICE	Yes (PVC or Np)	Yes		Yes	S.T w/SR	Yes	Yes, w/pump on	
VISITOR IN OPS AREAS				Yes	Closed toe	Yes		
WWF SERVICE	Yes (Nc)*	Yes		Yes	S.T w/SR	Yes		

Service Reps – must have Safety Vest available

GLOVES

Cr = Cut Resistant glove (work glove)
Np = Supported Neoprene Glove (Outer Glove)
Cp = Chloroprene (5ml) (Inner Glove)
PVC = Poly Vinyl Chloride (Insulated option)
Nc = Nitrile Coated (work glove)

Cr* = Cut Resistant glove (if chemical present – Supported Neoprene)
Nr = Nitrile (8ml) glove
(Np)* = discard if show signs of breakthrough (breakthrough = discoloration, swelling, stiffness, etc.)
PVC = Poly Vinyl Chloride (Insulated option)
(Nc/Cp)* = discard if show signs of breakthrough (breakthrough = discoloration, swelling, stiffness, etc.)

APRON
Tychem QC apron w/ sleeves*= discard if show signs of breakthrough (breakthrough = discoloration, loss of coating, stain on inside of apron, etc.)

FOOTWEAR
S.T. w/M = Steel Toes with Metatarsal Guard
S.T. w/SR=Steel Toes with Slip Resistant Soles

RESPIRATOR / CARTRIDGE TYPE
APR = half face (HF) or full face (FF) air purifying respirator
(facial hair shall not come in contact with the face piece seal)

Parts Number - Arbill

Gloves - Cr –Kevlar Shell Nitrile Palm A14240, Np-SK 612, CP-151433, PVC - A141360, Nc-14056, Nr -151943. **Respirator/Cartridge Type** – HF-A500603, FF - A505820, Organic Vapor/Acid Gas- A500710, Organic Vapor – A500730,
Apron – Tychem QC apron w/sleeves – Medium – QC275BYLMD002500, Large – QC275BYLLG002500, Ex. Large – QC275BYLXL002500. **Hard Hat –** 475360-BL27128 - BL6400. **Safety Vest –** A209283. **Goggles** – A303630. **Hearing Protection –** Muffs – A401800, Plugs – A403770.

Parts Number – Century Vallen

Gloves - Cr – Kevlar Shell Nitrile Palm EDM 11-500, Np-SK 612, Cp – GLONPG888-M, PVC-EDM 4-412, Nc-EDM 37-145, Nr-BST 8005PF-L
Respirator/Cartridge Type – HF-3MS 6200, FF-3MS 6800, Organic Vapor/Acid Gas/HEPA-3MS 60923, Organic Vapor/HEPA-3MS 60921, HEPA - 3MS 2096, Dusk Mask - 3MS8511.
Apron – Tychem QC apron w/sleeves - LAK 527. **Hard Hat –** DSI HP542R -02 – SK Logo. **Safety Vest –** NORTV52B4/(SIZE). **Goggles** – UVXS700C. **Hearing Protection –** Muffs – PLT H10A. Plugs – EAR 312 – 1201.

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Tab 5

Part II.B

Part II

B. CONTAINERS

CONTAINMENT SYSTEM

The container storage areas are shown in Figure 8.1-1 occupies the southern portion of the warehouse building area which has a sloped concrete floor, and collection trench to form a spill containment system. The system is maintained. Spills are removed by a hand-held portable electric pump (the coms pump), wet-dry vacuum cleaner, or sorbent materials. The capacity of the containment system is designed to be greater than 10 percent of the total liquid storage capacity in the drum storage area. 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 permitted recycling or reclamation facility.

Only in the event that a spill was to exceed the containment capacity would spilled wastes be to extend beyond the containment area. Only six openings (doorways) exist in the container storage area. Four of these lead to other containment areas (i.e., the return/fill station and the enclosed concrete dock (Figure 8.1-1)). The other two doorways are located on the east side of the container storage area. Due to the volume of containment available and the configuration of the container storage area, it is highly unlikely that any spill would extend beyond this area.

The containment volume is composed of the warehouse sloped concrete floor and the collection trench. The total containment volume is 2,996 gallons. The types and number of each container may vary; however, total volume of product and waste stored will not exceed the maximum volume of 29,400 gallons. The estimated maximum storage volume of hazardous waste is 6,912 gallons. Containment calculations along with a container storage area integrity assessment are provided in Appendix C.

The containment areas have been coated with Sikaguard® 62 or equivalent. 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 Safety-Kleen. Inspections of the sealant in the containment areas will be conducted as part of the facility inspection plan. If the sealant is found to be worn or deteriorated such that repairs are warranted, the sealant will be repaired in accordance with the manufacturer’s specifications.

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. Drummed waste containers are loaded for transport to a Safety-Kleen/Clean Harbors TSDF at the enclosed concrete dock at the southeast corner of the building. Incoming waste containers are unloaded on the dock at the return/fill station, and also at the bay door on the east side of the building. Parts washer solvent containers are unloaded at the return/fill station dock, and then dumped into the return/fill dumpsters within 24 hours of arrival at the facility. Other containerized waste is moved to the appropriate storage area via hand truck/forklift within 24 hours of arrival at the facility.

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 any standing liquid while they are in storage. The containers will be arranged so that at least 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 ignitable wastes are stored at least 50 feet from the property line. Per 40 CFR Part 264.177(a), incompatible wastes, or incompatible wastes and materials, must not be placed in the same container, unless 40 CFR Part 264.17(b) is complied with. 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. The USDOT segregation table, found in 49 CFR Part 177.848 is used as a guideline for storage of hazardous materials at the facility. Wastes are stored primarily in polyethylene and steel containers. Immersion cleaner, dry cleaner, paint waste, and FRS (transfer) waste containers are never opened at the branch. Overpack 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 USDOT shipping container specifications.

Potential Fire Sources

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

1. *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 petroleum-based 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 fire 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.

3. *Adequate aisle spacing 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 inspected* 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.

1. *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.

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. Overpack 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 naphtha-based waste. The contents of the dry-cleaning waste containers are not removed or processed at the Medley Branch. It is stored as permitted or transfer waste prior to shipment to a permitted Safety-Kleen/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 container storage area or transfer area of the warehouse. The paint wastes are sent to a permitted Safety-Kleen/Clean Harbors TSDF.

FRS/Transfer wastes are stored in steel, polyethylene, and fiberboard 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. Other DOT approved containers are used for mercury devices. 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 transit or 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 the transfer waste areas. 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.

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 electronic inspection system is unavailable they may be completed on paper. Examples of the Inspection Logs for the container storage area, transfer areas, and associated loading/unloading areas are presented at the end of Part II.B. Daily container storage area inspections include the following:

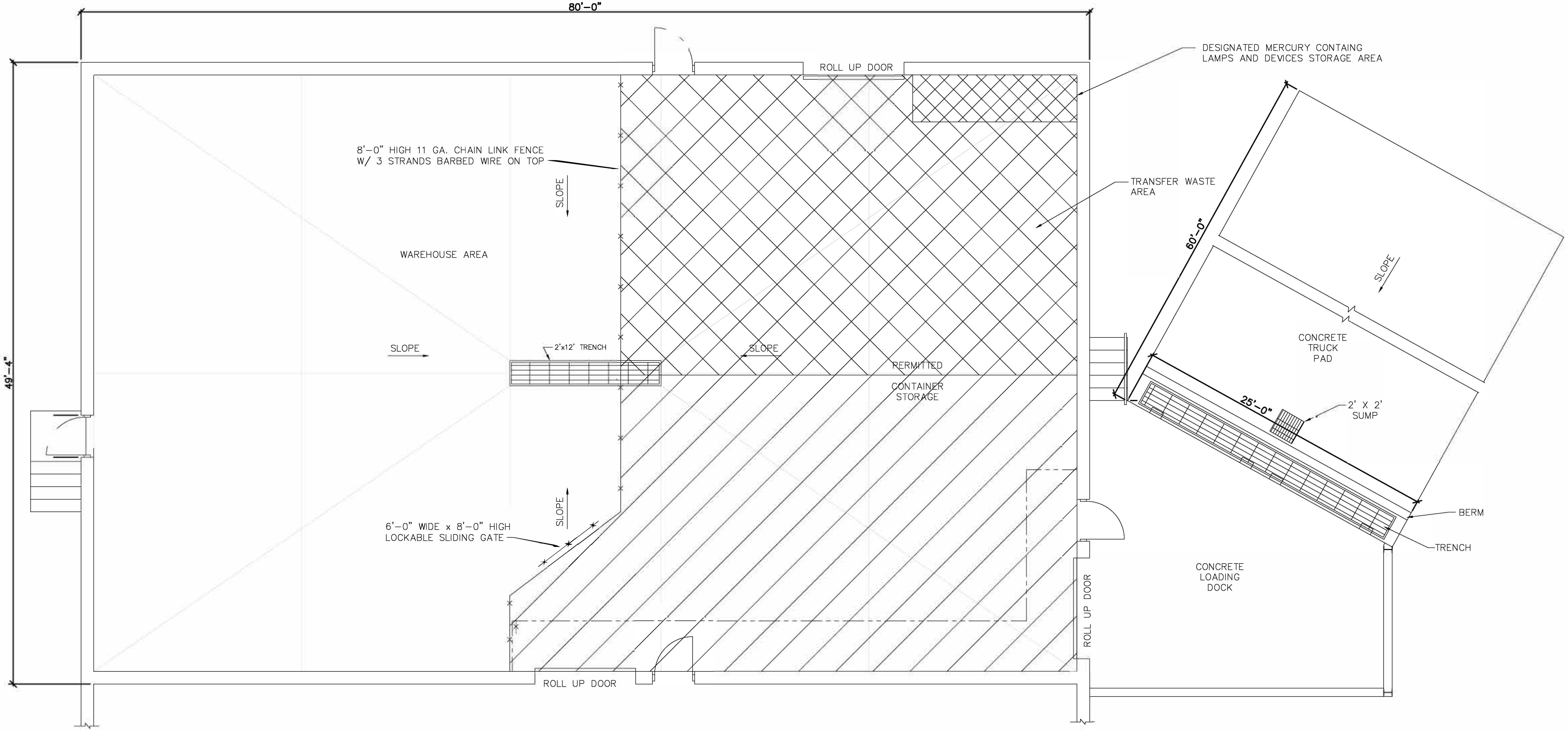
- Verify that total volume is within the permitted limits;
- Physically examine the condition of containers to verify that leaks have not occurred since the last inspection;
- Verify that all container identification, dates, and hazardous waste labels are attached and current;
- Inspect container placement and stacking such as aisle space, height, and stability of stacks; 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.



1B WAREHOUSE AREA FLOOR PLAN

NORTH

SCALE: 1/4" = 1'-0"

GENERAL NOTES

PROPRIETARY STATEMENT

TITLE

FIGURE 8.1-1
CONTAINER STORAGE AREA

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZX	092022

REVISIONS

SCALE 1/4" = 1'-0"	BY JEK	CHKD JZ	P.E. APPR JZ	OP. APPR JZ	DATE 9/20/22
SERVICE CENTER LOCATION MEDLEY, FL			SC-DWG NO. 7096-7100-200		REV NO. A

10-21-91 8:00am 7005-Q.DWG

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 Inspection Instruction	
Note the condition of inspection items. Note the number and capacity of branch generated hazardous waste containers ony (10-day transfer containers collected from customers do not apply). All unsatisfactoryf findings must be explained below. Include any repairs, changes, or other remedial actions required or performed.	
CO Branch Generated Hazardous Waste Container 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	

CleanHarbors

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). Containers do not have waste/staining on the outside which would require cleaning or overpacking.	
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).	

Site Generated Waste - debris, used absorbents, used PPE, aerosols, etc. - Check for evidence of failure (e.g., waste not containerized, proper storage location, container type, container label, 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., no free liquid, ponding or wet spots, available spill equipment, spill equipment location, spill kit supply and inventory is adequate, containment deterioration, leaks, pad condition, valve access box, housekeeping, 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 evidence of failure (e.g., container open, >55	

gallons, label, other).	
Spill Equipment - Check that spill equipment is available, clean, and ready for use. Spill equipment is placed in the correct location. Spill equipment includes the correct types of equipment in sufficient quantities.	
Additional Comments or Notes	
Comments	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Tab 6

Part II.C

Part II

C. TANK SYSTEM

ENGINEERING ASSESSMENT OF TANK SYSTEM

A formal tank integrity inspection of the 20,000-gallon RCRA Permitted Hazardous Waste Tank (Used Solvent) was performed on July 21, 2022. A copy of that inspection report is included at the end of Part II C.

TANK SYSTEM SPECIFICATIONS

There are five aboveground steel tanks at the facility located inside the permitted tank storage unit (Figure 9.2-1). Four of these tanks are all vertical and the oily water tank is horizontal. 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 the 20,000-gallon RCRA Permitted Hazardous Waste Tank (Used Solvent), prior to bulk shipment to permitted Safety-Kleen TSDF. The other four tanks; include one 20,000-gallon tank (Clean 150 Solvent), one 20,000 and one 15,000-gallon Used Oil tank, and one 10,000-gallon oily water tank. Of the five AST's located within the Permitted Tank Storage Unit, the only hazardous waste permitted tank is the RCRA Permitted Hazardous Waste Tank (Used Solvent). The other four AST's, while not RCRA regulated, are registered per Chapter 62-762, F.A.C. with the Facility ID No. 9300106 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 parts washer 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 allowed to sit for a few seconds so residual solvent drops to the bottom of the wet dumpster, then 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 from the wet dumpster to the RCRA Permitted Hazardous Waste Tank (Used Solvent) via piping and a pump.

The used parts washer solvent is fed to a sump in the bottom of the wet dumpster and automatically pumped to the RCRA Permitted Hazardous Waste Tank (Used Solvent). A basket within the sump collects sludge from the cleaning operations. This sludge is removed daily at the end of the drum cleaning operations and placed into a satellite accumulation container next to the wet dumpsters. The wet dumpsters are located in the return/fill station, which is underlain by a secondary containment structure.

The RCRA Permitted Hazardous Waste Tank (Used Solvent) is designed and constructed to be compatible with the materials stored. The tank has an 8-inch Flanged Emergency Pressure Relief 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 RCRA Permitted Hazardous Waste Tank (Used Solvent) was installed new in 1992. The tank is aboveground, supported by an 8-inch skid placed on the 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 metal canopy has been installed over the Permitted Tank Storage Unit. 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 occurred, the rainwater will be disposed of in the wet dumpsters.

Controls and Spill Prevention

The permitted tank storage unit and the return/fill station have been sealed with a chemical resistant coating. The RCRA Permitted Hazardous Waste Tank (Used Solvent) 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 shelter 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 shelter to the top of the RCRA Permitted Hazardous Waste Tank (Used Solvent) is connected by threaded connectors. This piping runs under the dock and leaves the Return/Fill shelter on the north side of the building. At that point, the piping system continues north towards the permitted tank storage unit and is outside secondary containment (this part of the system has welded connectors). Once it reaches permitted tank storage unit secondary containment the piping, with threaded connectors, 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 found in at the end of this section details the system.

Leak Detection System

The Safety-Kleen Medley branch has installed an automatic leak detection system at the permitted tank storage unit for the RCRA Permitted Hazardous Waste Tank (Used Solvent). 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 on the wall of the permitted tank storage unit secondary containment just above the floor. 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 Medley 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

All tanks are aboveground, underlain by a 58' x 40' concrete slab, surrounded by a 36¼" to 38" concrete dike and are covered by a metal canopy. No surface run-on or precipitation will come into contact with the wastes stored in the permitted tank storage unit and no run-off collection and management system is deemed necessary. The layout of the permitted tank storage unit is shown in Figure 9.2-1, found at the end of this section. Permitted tank storage unit and Return/Fill Shelter containment calculations are shown in Appendix C. The containment system in the permitted tank storage unit has been coated with Sikaguard® 62 or its equivalent, and is free of cracks. It is sufficiently impervious to prevent seepage into and through the concrete. Concrete is fully compatible with the waste stored. Inspections of the sealant will be conducted as described in the Tank System Inspections. If the sealant if found to be worn or deteriorated such that repairs are warranted, the sealant will be repaired in accordance with the manufacturer's specifications.

Return/Fill Containment

The return/fill shelter (Figure 9.3-1) is located between the office and warehouse. The floor is sloped to a containment trench located in the center of the return/fill shelter. The entire floor is coated with a chemical resistant coating. Two wet dumpsters are located on a raised grating, which measures 54¼' x 80'. These wet dumpsters handle the flow of used parts washer solvent to the RCRA Permitted Hazardous Waste Tank (Used Solvent). These dumpsters are not intended for storage but can hold a maximum of 504 gallons per dumpster.

The area is designed such that the route trucks can be backed into the return/fill shelter and up to the grated dock. The roof extends over the truck unloading area so that no precipitation can get into the return/fill shelter containment area. Return/Fill Shelter containment calculations are found in Appendix C. This area is mainly used to load/off-load containers, dump used solvent, clean parts washer drums and store clean parts washer solvent containers. Waste container storage does not take place at the Return/Fill Shelter. Any waste containers off-loaded in this area are moved to their proper storage location within 24 hours.

TANK SYSTEMS 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. Inspections are completed electronically (CO Tank Systems Inspection, CO Return and Fill Area). Examples of the Daily Inspection Logs are found at the end of Part II.C. Daily inspections of the tank and dumpsters will consist of the following:

- Check volume (liquid level) 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 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 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 integrity inspections for the RCRA Permitted Hazardous Waste Tank (Used Solvent), 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 II K. As discussed below, a contingent post-closure plan for the tank is not required.

TANK SYSTEM CONTIGENT POST-CLOSURE PLAN

The tank system at the Medley 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 and immediately contained and cleaned up 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

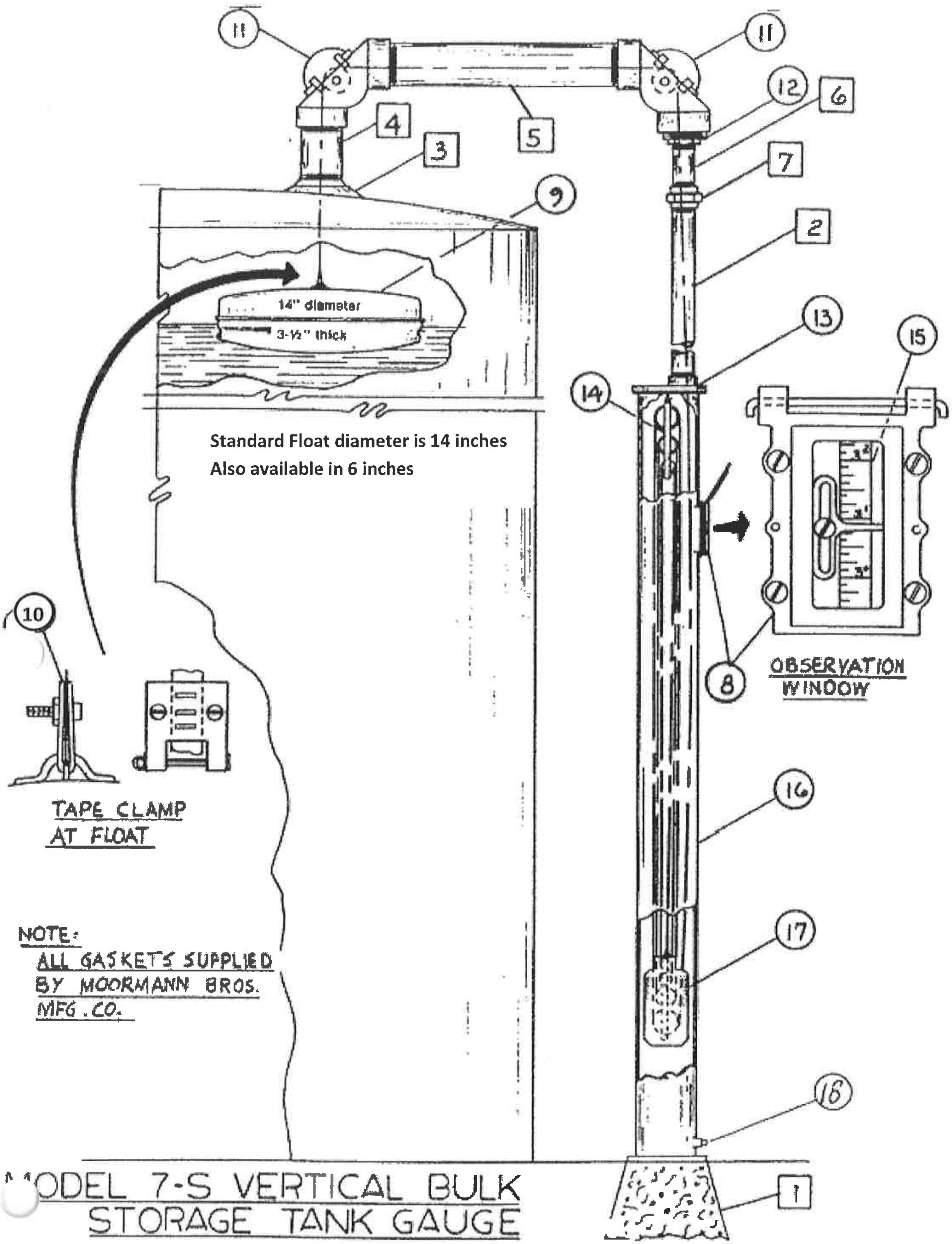
Subsequent reporting will be completed as referenced in the facility Contingency Plan.

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, in accordance with 40 CFR 270.11(d), that the repaired system is capable of handling hazardous wastes without release for the intended life of the system. This certification must be placed in the operating record and maintained until closure of the facility.

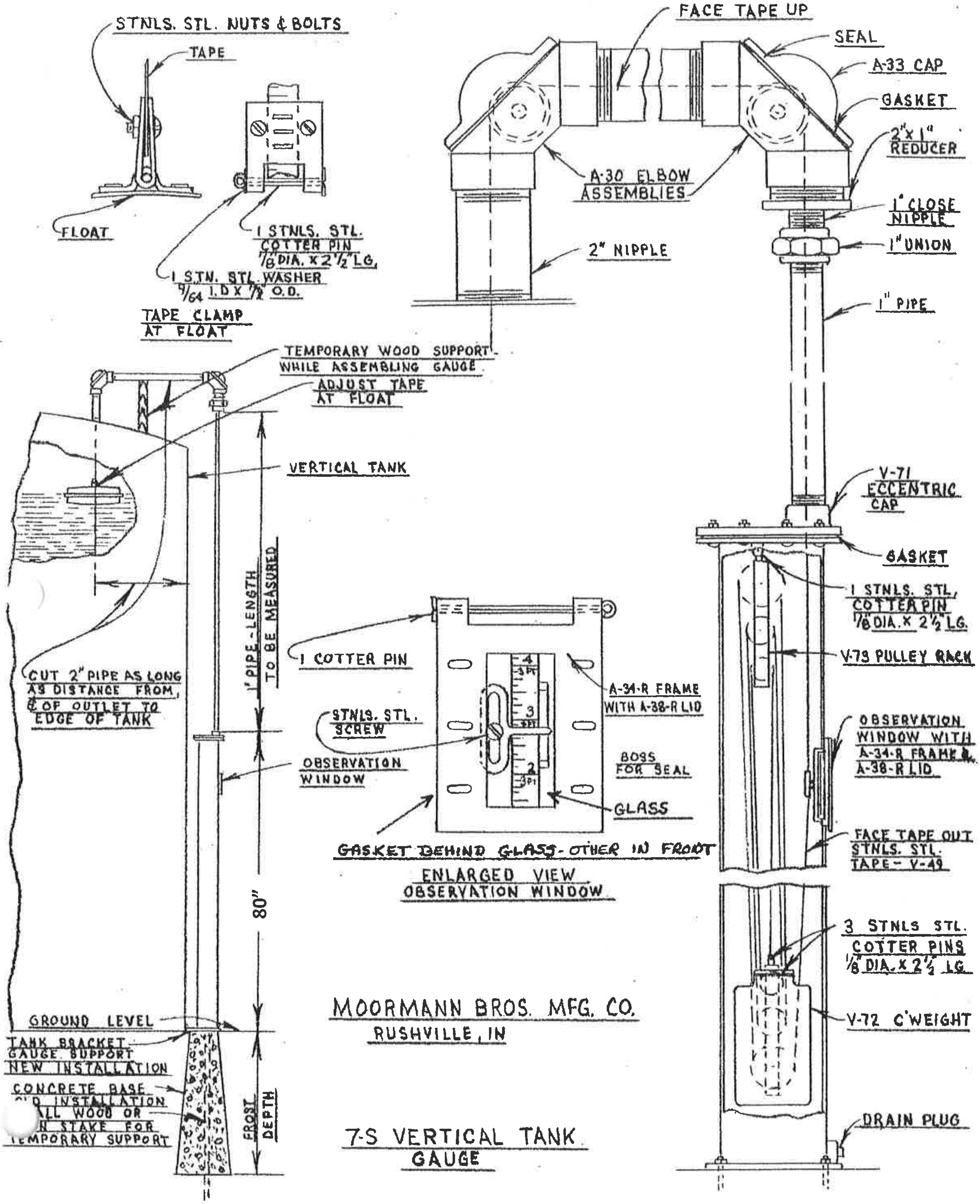
If repairs that meet these requirements cannot be performed, the tank system must be closed in accordance with the closure plan.



Standard Float diameter is 14 inches
Also available in 6 inches

NOTE:
ALL GASKETS SUPPLIED BY MOORMANN BROS. MFG. CO.

MODEL 7-S VERTICAL BULK STORAGE TANK GAUGE



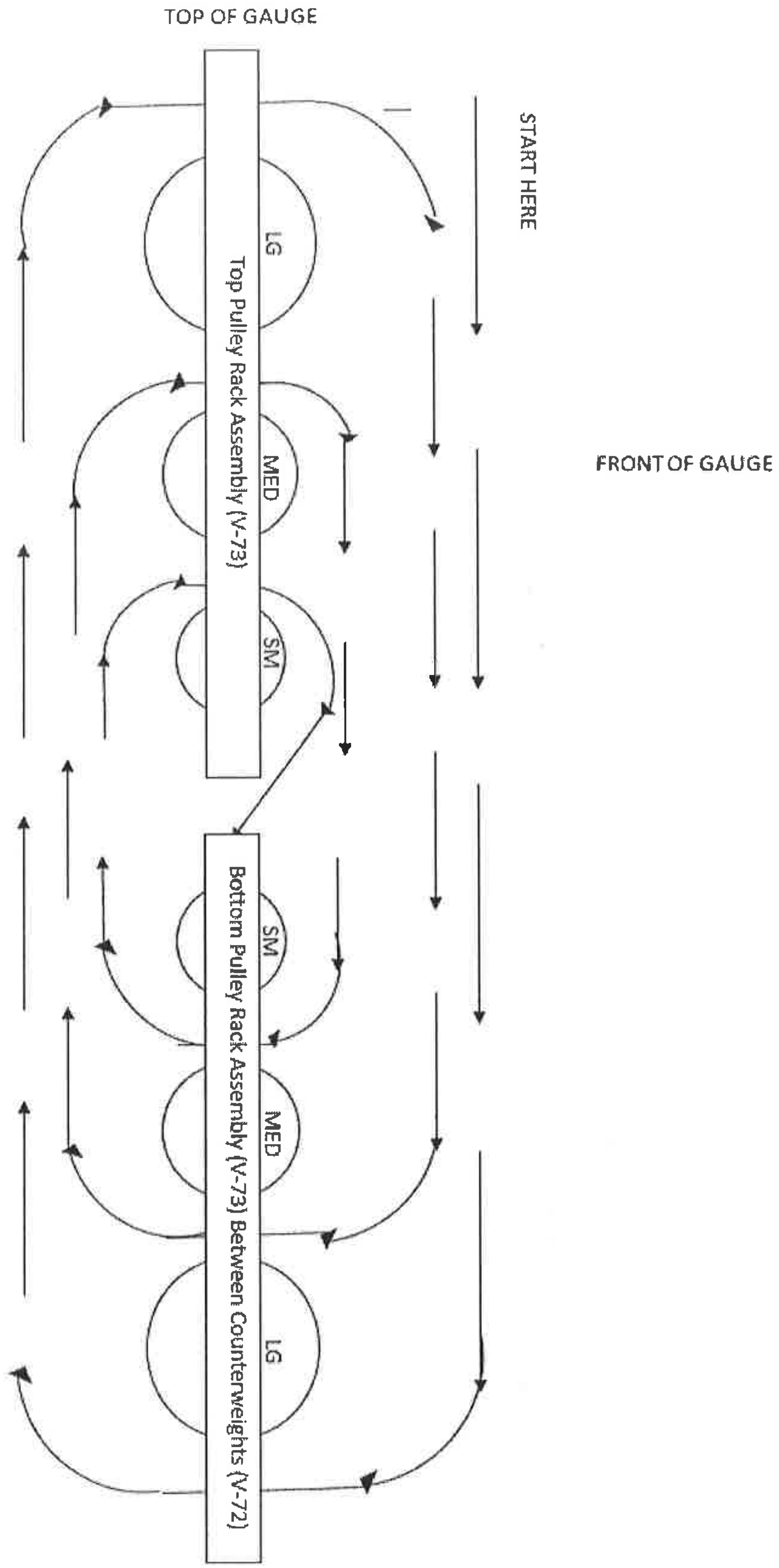
MOORMANN BROS. MFG. CO.
RUSHVILLE, IN

7-S VERTICAL TANK GAUGE

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 MEDIUM TOP PULLEY, DOWN 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 TAPE 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.

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

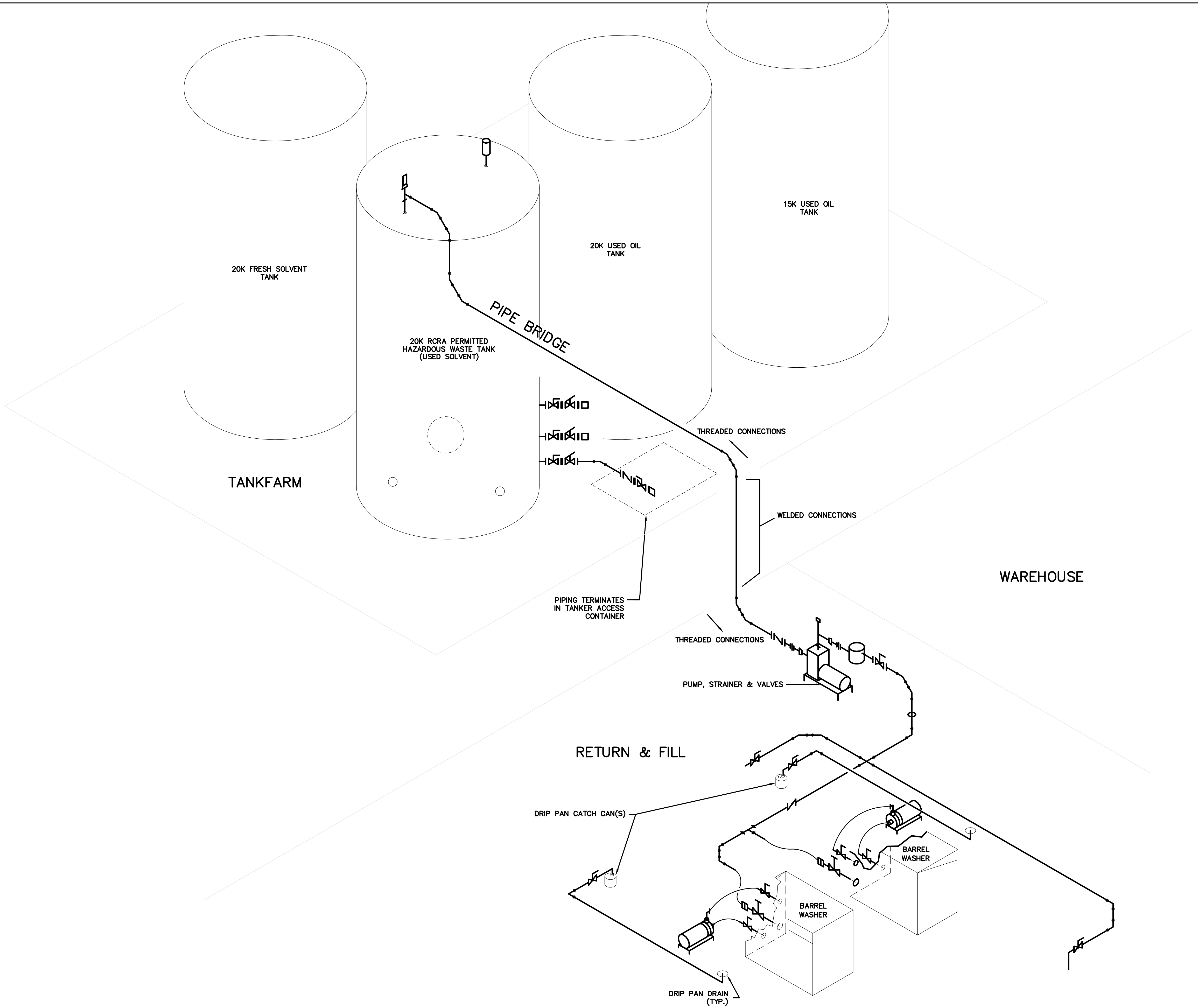
○ Material Supplied by Moormann Bros.

(see diagram to match circle with number)

	Part Name	Part No.	Quantity per Unit
8.	Observation Window Assembly (Frame & Lid)	A-34 / A-38	1
9.	Float – Aluminum or Stainless Steel 7-S comes with aluminum float (V-75) 7-S-SS comes with stainless steel (V-75-S)	V-75	1
10.	Stainless Steel Tape Clamp & Screws	V-93	1
11.	Elbow Assembly Complete	A-30, A-33	2
12.	2" to 1" Reducing Bushing	B-15	1
13.	Eccentric Cap Complete with Nuts & Bolts	V-71	1
14.	Pulley Rack Assembly	V-73	2
15.	Lufkin Stainless Steel High Visibility Tape	V-49	1
16.	Painted Steel Gauge Housing	V-77	1
17.	Counterweight	V-72	2
18.	Condensation Drain Plug	D-16	1
19.	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 Observation Window	V-94	1
	• Cotter Pin – Stainless Steel	V-96	4

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 numbers up 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" ¼" 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.



A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022
NO.	DESCRIPTION	BY	CHK	APPR	DATE

REVISIONS

PROPRIETARY STATEMENT

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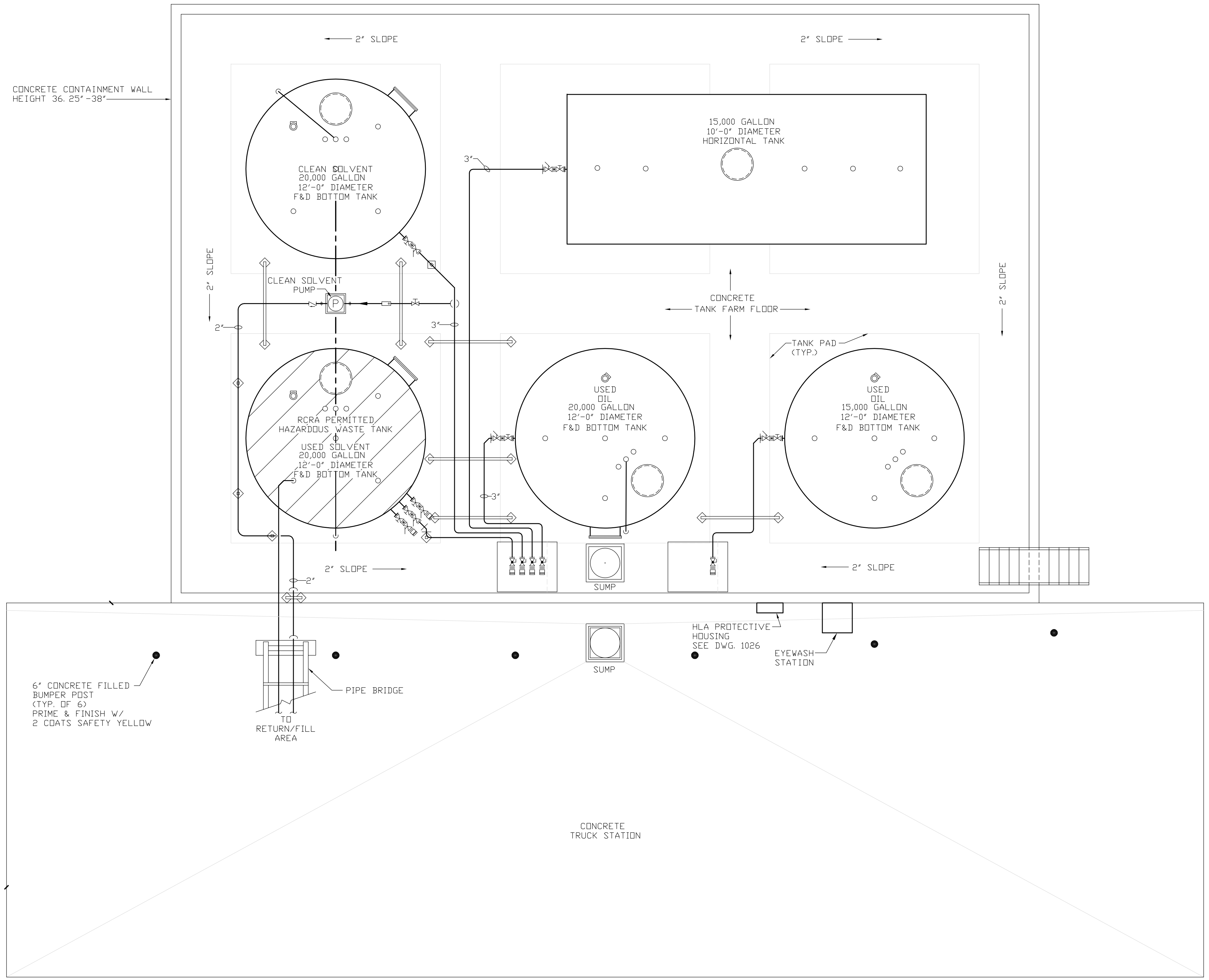
TITLE

FIGURE 9.1–1
PIPING SYSTEM DETAILS

SAFETY–KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781–792–5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
NONE	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL.	7096–5600–300	A



NORTH

TANK FARM PIPING PLAN

SCALE: 1/4" = 1'-0"

LEGEND

▨ RCRA PERMITTED HAZARDPUS WASTE TANK (USED SOLVENT)

GENERAL NOTES

PROPRIETARY STATEMENT

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TITLE
FIGURE 9.2-1
TANK STORAGE AREA

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

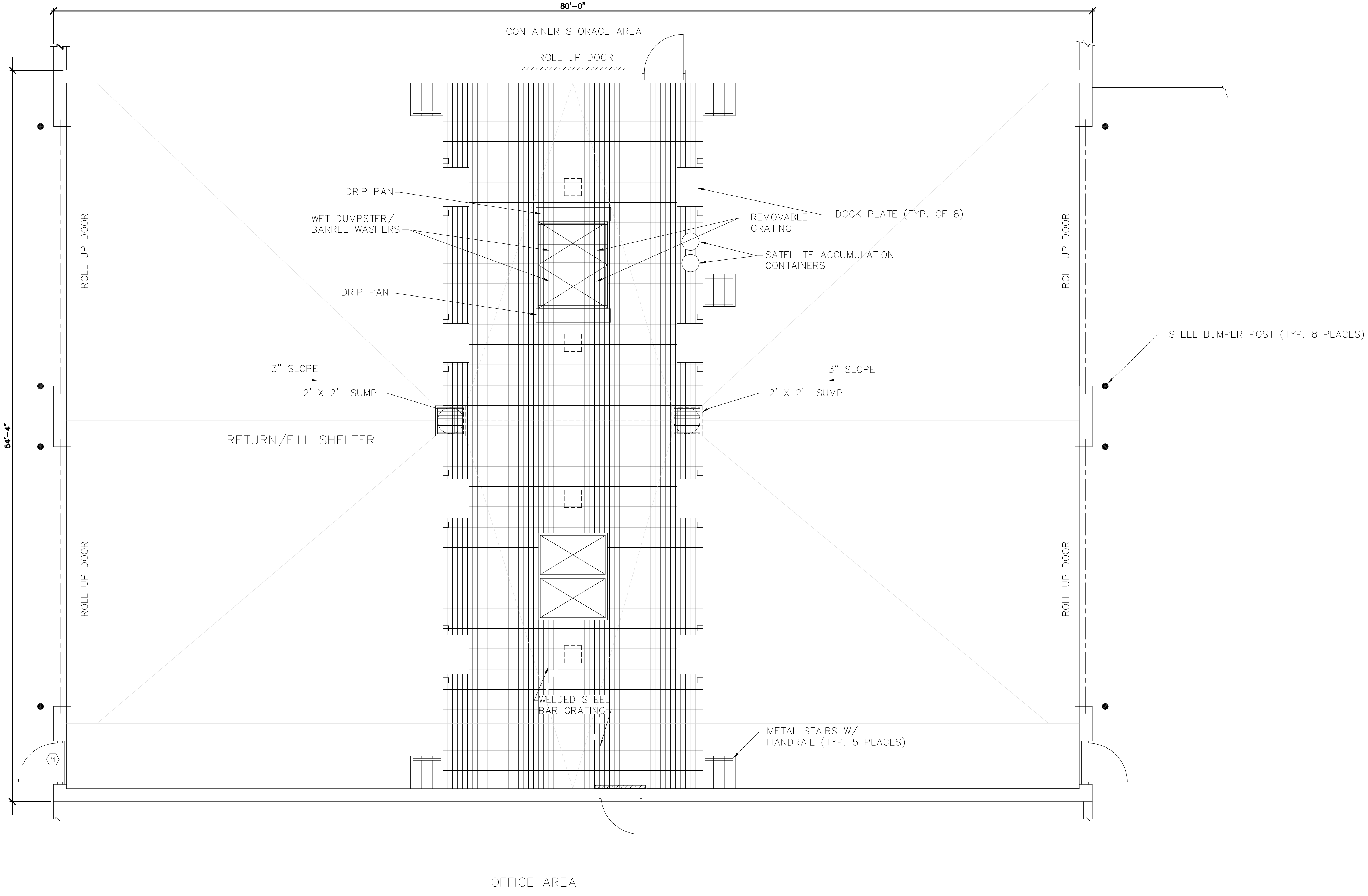
SCALE 1/4" = 1'-0"	BY JEK	CHKD JZ	P.E. APPR JZ	OP. APPR JZ	DATE 9/20/22

SERVICE CENTER LOCATION: MEDLEY, FL
SC-DWG. NUMBER: 7096-4100-200
REV. NO.: A

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZX	092022

REVISIONS

10-8-91 11:05pm 2000-Q.DWG



NORTH

RETURN/FILL AREA/FLOOR PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. DUMPSTERS MEASURE APPRX. 3' X 5'.
2. SUMPS MEASURE 2' DIA X 2' DEEP, THE NORTH SUMP STICKS OUT APPRX. 6" FROM UNDER GRATING.

PROPRIETARY STATEMENT

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TITLE

FIGURE 9.3-1
RETURN FILL SHELTER

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

A	ISSUED FOR PERMIT	JEK	JZ	JZX	092022
NO.	DESCRIPTION	BY	CHK	APPR	DATE
REVISIONS					

SCALE	BY	CHKD	P.E. APPR	OP. APPR	DATE
1/4" = 1'-0"	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NO.	REV. NO.
MEDLEY, FL	7096-5600-200	A

10-10-91 11:30am 7004-Q.DWG

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 apply to an area, mark N/A. All unsatisfactory findings must be explained. Include any repairs changes 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 evidence of failure (e.g., container open, > 55 gallons, label, other).	
Ventilation Fan - Check for evidence of failure (e.g., inoperative, shutters jammed, other).	
Site Generated Waste - debris, used absorbent, used PPE, aerosols, etc. - Check for evidence of failure. (e.g. waste not containerized, proper storage location, container type, container label, other)	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

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., leaks, rusty or loose anchoring, distortion, cleanliness, paint failure, other). Insulation - check for any damage or deterioration that may allow moisture intrusion.	
Pipes/Piping Supports - Check for evidence of failure (e.g., leaks, 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., leaks, loose, disconnected, corrosion, other).	
Liquid Level - Check for acceptable level and level guages working correctly. (e.g., high level max, permitted volume, level guage legible, other).	
Secondary Containment - Check for interior and exterior for evidence of failure (e.g., cracks, ponding or wet spots, pitting or deterioration, corrosion, erosion, other and excess liquid or debris, fire hazards, or other issues).	
Dike drain valves - Are valves closed and in	

good working condition?	
For double-wall tanks is interstitital monitoring equipment in good working condition and is the interstitial space free of liquid?	
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 evidence of failure (e.g., container open, >55 gallons, label, other).	
Manways, Hatches, Nipples, Other Openings, Ladders - Check for evidence of failure (e.g., leaks, 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., "Used Oil", "Non-Haz Only").	
Monitoring Equipment/Level Indicators/Overfill Prevention Equipment - Check that equipment is in good working condition or for evidence of failure (e.g., actuate equipment/alarms to confirm operation, pressure and temperature	

gauges, level indicators, sticking, condensation, disconnected, other).	
Loading/ Unloading Areas - Check condition of area (e.g., no free liquid, ponding or wet spots, available spill equipment, spill equipment location, spill kit supply and inventory is adequate, containment deterioration, leaks, pad condition, valve access box, housekeeping, other).	
Tank System Safety - Is the system free of any conditions that need to be addressed for continued safe operation?	
Connection Box/Drip Trays and Buckets - Are the connection box and all drip trays and buckets free of liquids or saturated absorbents, and all material properly collected and disposed?	
Site Generated Waste - debris, used absorbents, used PPE, aerosols, etc. - Check for evidence of failure (waste not containerized, proper storage location, container type, container label, other).	
Spill Equipment - Check that spill equipment is available, at the correct location, equipment supply and inventory is adequate, equipment is in good condition clean and ready for use.	
Ladders/platforms/walkways/egress pathways on or within tank or containment - Check for evidence of damage, corrosions, proper opration, pathways clear, doors/gates operable.	
Compliance Footer	
Inspector Signature	
Attach Photo	
Inspection Overall Assessment	

Inspection Services

"People and Technology Creating a Better Environment"

Safety-Kleen Systems

Medley, FL

STI SP001 Formal Internal Inspection

T-6

Inspection Date: 7/21/2022

Company Confidential

Tank Data

Design Standard:	UL	Nominal Diameter:	12’
Build Date:	No Data Available	Nominal Height:	26’
Manufactured By:	No Data Available	Material:	Steel
Orientation:	Vertical	Continuous Release Detection Method (CRDM):	RPB
Release Prevention Barrier:	Concrete	Spill Control:	Dike/Berm

SUMMARY

Conclusion:

As determined by the condition found during the inspection of T-6, the tank appears to be in suitable condition at the time of this inspection.

Recommendations:

Areas with coating failure should be cleaned, properly prepped and re-coated.

Monitor tank roof periodically.

CleanHarbors® **Inspection Services**

"People and Technology Creating a Better Environment"

EXTERNAL VISUAL INSPECTION

Foundation	General Condition				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Coating condition	☐	☒	☐	☐	Coating Failure
Concrete condition	☒	☐	☐	☐	
Containment / Dike walls	☒	☐	☐	☐	
Elastomeric Liner	☐	☐	☐	☒	
Site Drainage	☒	☐	☐	☐	
Equipment Support	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Base Support Type					Skirt
Coating	☒	☐	☐	☐	
Concrete Pad	☒	☐	☐	☐	
Corrosion	☒	☐	☐	☐	
Fireproofing	☒	☐	☐	☐	
Outer Shell	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Attachments	☒	☐	☐	☐	
Bottom Projection Plate	☐	☐	☐	☒	
Coating Condition	☐	☒	☐	☐	Coating Failure
Corrosion	☒	☐	☐	☐	
Deformation	☒	☐	☐	☐	
Insulation	☐	☐	☐	☒	
Insulation Support Bands	☐	☐	☐	☒	
Lifting Lugs	☐	☒	☐	☐	Bent
Atmospheric Venting	☒	☐	☐	☐	
Overfill Protection	☒	☐	☐	☐	
Attached Piping	☒	☐	☐	☐	
Repair(s)	☐	☐	☐	☒	
Vegetation	☐	☐	☐	☒	
Weather Jacket	☐	☐	☐	☒	
Manways / Nozzles	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Bolting Condition	☒	☐	☐	☐	
Coating Condition	☒	☐	☐	☐	
Corrosion	☒	☐	☐	☐	
Flange Condition	☒	☐	☐	☐	
Reinforcement Pad Condition	☒	☐	☐	☐	

Acc= Acceptable. FIN=Findings. N/I=Not Inspected, N/A Not Applicable

EXTERNAL VISUAL INSPECTION CONTINUED

Roof	General Condition				
Items	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Coating Condition	☒	☐	☐	☐	
Corrosion	☒	☐	☐	☐	
Deformation	☐	☒	☐	☐	Severe Dent
Proper Drainage	☐	☒	☐	☐	Tank roof is bent but the tank is under a metal canopy.
Weather Jacket	☐	☐	☐	☒	
Roof Appurtenances	**General Condition**				
Items	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Bolting Condition	☒	☐	☐	☐	
Condition of Hatch(s), Manway(s)	☒	☐	☐	☐	
Condition of Pressure/Vacuum Vent(s)	☒	☐	☐	☐	
Condition of Vent Screen(s)	☒	☐	☐	☐	
Emergency Venting	☒	☐	☐	☐	
Mixer / Agitator	☐	☐	☐	☒	
Normal Venting	☒	☐	☐	☐	
Appurtenances	**General Condition**				
Items	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Anchors	☒	☐	☐	☐	
Gauges, Sight Glass (damage)	☒	☐	☐	☐	
Grounding (tightness & corrosion)	☒	☐	☐	☐	
Liquid Level Gauge	☒	☐	☐	☐	
Data Plate	☐	☒	☐	☐	Not Attached

Acc= Acceptable. FIN=Findings. N/I=Not Inspected, N/A Not Applicable

CleanHarbors® **Inspection Services**

“People and Technology Creating a Better Environment”

INTERNAL VISUAL INSPECTION					
Floor	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Annular Ring	☐	☐	☐	☒	
Cleanliness	☒	☐	☐	☐	
Corrosion/Pitting	☒	☐	☐	☐	Scattered pitting measuring 1/6” in depth, 1 pit measured 1/8”.
Liner	☐	☐	☐	☒	
Magnetic Flux Leakage Exam	☐	☐	☐	☒	
Repair(s)	☐	☐	☐	☒	
Sump(s)	☐	☐	☐	☒	
Vacuum Box Bubble Exam	☐	☐	☐	☒	
Void(s), Low Spots	☐	☐	☐	☒	
Floor to Shell Weld (MP only)	☐	☐	☐	☒	
Shell	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Cleanliness	☒	☐	☐	☐	
Corrosion / Pitting	☒	☐	☐	☐	
Liner	☐	☐	☐	☒	
Roof	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Liner	☐	☐	☐	☒	
Corrosion / Pitting	☐	☐	☒	☐	Visual from ground only.
Nozzles, Man Ways and Attachments	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Baffles	☐	☐	☐	☒	
Corrosion/Pitting	☒	☐	☐	☐	
Down comer(s)	☒	☐	☐	☐	
Internal coils	☐	☐	☐	☒	
Mixers, agitators	☐	☐	☐	☒	
Thermowell(s)	☐	☐	☐	☒	
Roof Support(s)	**General Condition**				
Item	**Acc**	**Fin**	**N/I**	**N/A**	**Comments**
Colum(s)	☐	☐	☐	☒	
Restraining clip(s)	☐	☐	☐	☒	
Reinforcing pads	☐	☐	☐	☒	
Rafters	☐	☐	☐	☒	

Acc= Acceptable. FIN=Findings. N/I=Not Inspected, N/A Not Applicable

Thickness Data:

	0°	90°	180°	270°
First Course	0.253''	0.254''	0.252''	0.252''
	0.255''	0.253''	0.253''	0.254''
	0.252''	0.252''	0.256''	0.255''
Second Course	0.243''	0.245''	0.246''	0.245''
	0.245''	0.247''	0.247''	0.246''
	0.245''	0.246''	0.247''	0.246''
Third Course	0.250''	0.252''	0.250''	0.250''
	0.248''	0.257''	0.251''	0.250''
	0.250''	0.250''	0.249''	0.249''
Fourth Course	0.182''	0.185''	0.184''	0.185''
	0.176''	0.185''	0.185''	0.183''
	0.170''	0.186''	0.185''	0.183''

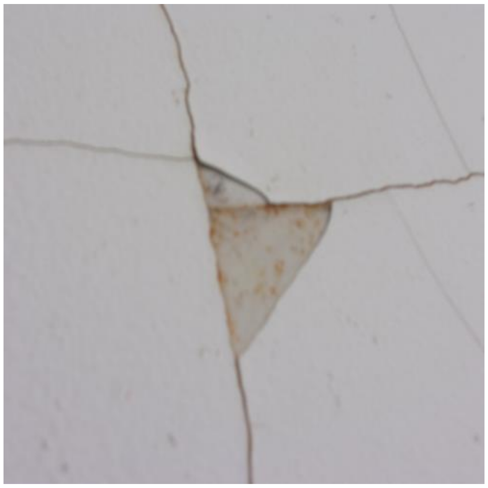
Course 1		**Course 2**	
Minimum	0.252''	Minimum	0.243''
Average	0.253''	Average	0.246''
Maximum	0.256''	Maximum	0.247''
Standard Deviation	0.001''	Standard Deviation	0.001''

Course 3		**Course 4**	
Minimum	0.248''	Minimum	0.170''
Average	0.251''	Average	0.182''
Maximum	0.257''	Maximum	0.186''
Standard Deviation	0.002''	Standard Deviation	0.005''

	0°	90°	180°	270°
Roof	0.174''	0.167''	0.183''	0.187''
Bottom	0.250''	0.247''	0.246''	0.245''

	12 o' clock	6 o' clock
Manway	0.225''	0.226''
3" Nozzle	0.284''	0.264''
3" Nozzle	0.277''	0.275''
3" Nozzle	0.270''	0.286''
3" Nozzle	0.281''	0.279''
3" Nozzle	0.281''	0.273''

Photographs



Photographs

Photographs

Inspection Certification Certificate

Tony Gutierrez under direct supervision of Taylor Sudol (Certified Inspector) has performed a STI SP001 Formal Internal Inspection on T-6 on July 21, 2022. The tank is located at the Safety-Kleen facility in Medley, FL. As determined by the condition found during the inspection of T-6, the tank appears to be in suitable condition at the time of this inspection. Facility personnel should perform periodic inspections in accordance with STI SP001.

The services performed, documentation of inspection, identification of deterioration, and the generation of a report was performed within the generally accepted principles and practices of STI SP001 (current version), Clean Harbors' Written Practice and Inspection procedures.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment.

Taylor Sudol

Taylor Sudol
STI SP001# AC44096

WARRANTY

Clean Harbors Inspection Services, USA. ("Company") has performed inspection services on equipment designated by Safety-Kleen Systems (owner/operator) and has evaluated its condition based on observations and measurements made by Company's inspectors. While our evaluation accurately describes the condition of the equipment at the time of inspection, the owner/operator must independently assess the inspection information/report provided by Company and any conclusions reached by owner/operator and any action taken or omitted to be taken are the sole responsibility of the owner/operator. With respect to inspection and testing, Company warrants only that the services have been performed in accordance with accepted industry practice. If any such services fail to meet the foregoing warranty, Company shall re-perform the service to the same extent and on the same conditions as the original service.

Company makes no warranty, express or implied, regarding goods or services provided by Company other than those warranties set forth herein. The preceding paragraph sets forth the exclusive remedy for claims based on failure or of defect in materials or services, whether such claim is made in contract or tort (including negligence) and however instituted, and, upon expiration of the warranty period, all such liability shall terminate. The foregoing warranty is exclusive and in lieu of all other warranties, whether written, oral, implied or statutory. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY, nor shall Company be liable for any loss or damage whatsoever by reason of its failure to discover, report, repair or modify latent defects or defects inherent in the design of any equipment inspected. In no event, whether a result of breach of contract, warranty or tort (including negligence) shall Company be liable for any consequential or incidental damages including, but not limited to, loss of profit or revenues, loss of use of equipment tested or services by Company or any associated damage to facilities, down-time costs or claims of other damages.

CERTIFICATION

Steel Tank Institute

Taylor Sudol

STI Inspector No: **AC 44096**

Expires: **September 1, 2025**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certification is dependent on an active API 653 certification.

Joseph Mentzer, P.E.
Steel Tank Institute

STI SPFA

The official status of this certificate can be verified at www.steeltank.com.

Issue Date:
09/01/2020

Tab 7

Part II.I

Miscellaneous Units

Part II

I. Miscellaneous Units

1. Description of Miscellaneous Unit

The wet dumpster/drum washer unit at the facility is managed under the Subpart X – Miscellaneous Units Standards of 40 CFR Part 264.600. The unit is located, designed, constructed, operated and maintained in a manner to protect human health and the environment. The unit is specifically located within the Return/Fill Shelter and sits on top of the raised steel grated dock, and area provided with secondary containment, as described in Part II.C, to prevent any potential releases from migrating to the surrounding subsurface or groundwater. Safety-Kleen has performed emissions monitoring of these units at other facilities and the data has shown that VOC emissions are below the 10,000 ppmw leak detection threshold.

1.a The unit is constructed of steel and the dimensions are approximately: H – 5’ 7”, L – 5’ 6”, W – 3’. Engineering drawings providing detailed information for the unit are found at the end of this section. It is basically a large rectangular steel box with a clam shell type lid that is manually opened upward when in use.

1.b The wet dumpster/drum washer unit is designed to allow employees to manually empty used parts washer solvent containers into the dumpster, then place the containers on roller brushes contained within the unit for rinsing. An internal spray system is turned on, and the containers rotate on the brushes where used parts washer solvent is recirculated for cleaning the inside and outside of the containers. This process takes approximately five (5) seconds per container. The containers sit in the unit for a short period of time so any residual solvent is allowed to drop back into the unit. During the dumping process the used parts washer solvent is transferred to the RCRA-Permitted Hazardous Waste Tank (Used Solvent) via an automatic float switch pump which is activated as the used parts washer solvent fills at the bottom of the unit. Once cleaned, the containers are filled with clean recycled parts washer solvent. As designed and utilized, this unit is simply a device used to effectively convey the contents of a used parts washer solvent container to the on-site RCRA-Permitted Hazardous Waste Tank (Used Solvent). The wet dumpster/drum washer unit is not designed or intended to contain an accumulation of hazardous waste. The unit operates at ambient pressure and temperature. When not actively being used to received used parts washer solvent and wash containers, the unit will be maintained in a closed position. The internal sump at the bottom of the unit will be emptied at the end of each day's operating shift.

The unit will be inspected each operating day using Form CO Return and Fill Area, which is found in Part II.C of this permit application. Items for inspection are:

- Pump seals & pump motors
- Fittings, valves, hose connections, & hose body
- Clam Shell Unit Type – check fusible link for failure (e.g., broken, spring missing, other), lid hinge assembly (e.g., broken pivot arm, damaged lid arm, missing pins, other).
- Wet Dumpster/Drum Washer – check for evidence of failure (e.g., leaks, rust, split seams, distortion, deterioration, excess debris, sediment accumulation, etc.)
- Secondary Containment – check for excess sediment, standing liquid that may indicate leak(s), distortion, deterioration, excess debris, damage, etc.).
- Loading/Unloading Area – check for cracks, ponding or wet spots, deterioration, etc.)
- Satellite Accumulation Container – check for container integrity, placement, proper labeling/marking, closed when not adding or removing waste material, etc.

If a leak is detected from the wet dumpster/drum washer unit, the defect causing the leak will be repaired no later than 45 days from the date of detection, unless the standards associated with delay of repair (40 CFR 264.1084(k)(2)) apply. First attempts to repair the unit will occur within five (5) days after leak detection.

Closure information for this unit and the Return/Fill Shelter is found in Part II.K of this permit application.

The physical properties and chemical characteristics of the used parts washer solvent transferred through this unit, and waste materials generated in the drum cleaning operation are found in Part II.A.5 of this permit application.

1.c The wet dumpster/drum washer unit is not a disposal unit, however; if future conditions show that contaminated soils cannot be completely removed or decontaminated during closure, the unit will meet the requirements of 264.601 during post-closure care. A plan to perform post-closure care in accordance with 264.118 will be prepared for implementation upon FDEP approval.

2. Environmental Performance Standards for Miscellaneous Units

The wet dumpster/drum washer unit operated by the Safety-Kleen Medley branch are not equipped with active emission control systems. As part of the company's overall emission inventory and assessment program, emission sources at the branch facilities, including the wet dumpster/drum washer units have been evaluated to determine whether the facilities should be considered sources requiring air permits. Based on this evaluation they should be considered minor sources and not require emission control permits. The reasons for the low emission levels are fourfold. First, the solvent managed at the facility, especially in those areas of maximum potential emission (i.e., wet dumpster/drum washer and bulk storage tanks, have a relatively low vapor pressure of 0.2mmHg at 68° F or 0.6mm Hg at 100° F). Secondly, the wet dumpster/drum washer unit is operated in such a manner as to minimize the potential for emissions to greatest extent practicable during unloading the used parts washer solvent into the unit. Third, the volume of the used parts washer solvent present in the wet dumpster/drum washer unit between unloading operations, approximately 2-3 gallons, is minimized and lids of the unit remains closed when used parts washer solvent is not being added or when empty drums are not being cleaned. Finally, containers are filled with clean solvent using a gasoline type dispenser that extends to the bottom of the container. This minimizes any splashing that may occur during the filling operation.

Safety-Kleen has conducted Industrial Hygiene Hazard Assessments of the emissions produced by the operation of the wet dumpster/drum washer and other sources located at a typical branch. These assessments were conducted for a number of reasons. The most important is to determine the presence of any unacceptable work place exposure regarding the protection of company employees who work directly over the process area as containers are being emptied, cleaned and refilled with clean solvent. Based on Industrial Hygiene studies performed at various Safety-Kleen branches/facilities, results do not indicate any unacceptable work place exposure. As would be expected, solvents and related compounds have been detected during sampling events, but in concentrations will below American Conference of Governmental Industrial Hygienist (ACGIH) threshold limit values (TLV) and the Occupational Safety and Health Administration's (OSHA) Permissible Exposure Limits (PEL) for the various chemical compounds encountered. A sample of the data collected by the company's Certified Industrial Hygienist is included at the end of this section.

Based on the above information there would not be any tangible environmental benefit to adding pollution controls to the wet dumpster/drum washer units. In addition, developing pollution controls would be very difficult since processing containers of used parts washer solvent requires that the lids to the unit remain open during active operation, and the unit is located over an open grated working surface provided with a concrete secondary containment system. It should also be noted that the wet dumpster/drum washer unit is drained and closed during those times of the operating day when no trucks are delivering used parts washer solvent to be processed. Also, at the end of each operating day, which typically consists of 2.5 – 4 hours of processing, the wet dumpster/drum washer unit is emptied, cleaned and closed to prepare for the next day's operation. These procedures provide an additional amount of risk reduction.

3. The potential pathways of exposure of humans to hazardous waste or hazardous waste constituents from the wet dumpster/drum washer would be through skin contact (absorption), or inhalation. Employees operating the unit are required to use the following Personal Protective Equipment (PPE) at all times to reduce and/or eliminate exposure:

- Gloves – cut resistant (outside), and supported neoprene (inside)
- Hearing protection – required when using pneumatic tools for drum closure or opening
- Footwear – steel toed boots with metatarsals and slip resistant soles
- Tychem QC apron with sleeves
- Hard Hat
- Safety glasses with side shields
- Safety-Kleen issued work uniform
- In addition, all material handlers are issued respirators and fit tested annually. It is not a requirement to use respiratory protection during operation of the unit, but any employee may choose to do so.

The potential pathways of exposure of environmental receptors to hazardous waste or hazardous waste constituents would through emissions or release of material from the unit. Emissions from the unit have been discussed above. In addition, release protection has been discussed. The unit is located inside an enclosed building with sufficient secondary containment to mitigate a release of material. In addition, the capacity of the unit is minimal compared to the secondary containment capacity in the Return/Fill Shelter, the unit is inspected each operating day for leaks, deterioration, or damage, and employees are trained to respond to any spill or release from this unit immediately

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To: Kevin Knippschild

From: Gavin Burdge

Subject: **Dec 6, 2000 Personal Air Sample Obtained at the Dolton, IL Return and Fill**

Date: Jan 27, 2001

Executive Summary

Air sampling at the return and fill indicated negligible health risk (additive exposure index < 0.1) from the inhalation route of exposure. Skin contact from splashes was a more likely route of exposure.

Discussion

A personal air sample was obtained December 6, 2000 on Tony Alvarez who worked on the 3 pm to 11 pm shift at the return and fill. A full shift sample was obtained to determine the 8-hour time-weighted average solvent concentrations. The actual dumping of drums containing 105 and 150 solvent takes about 3 to 4-hours. The air sample was obtained following standard NIOSH methods and analyzed by the AIHA accredited Safety-Kleen Lambton Occupational Hygiene Lab.

The results showed trace concentrations of several airborne solvents. All concentrations were significantly below the occupational exposure limits. A trace concentration of 0.013 ppm of benzene was detected. The TLV for benzene is 0.5 ppm. The concentration of methylene chloride detected was 0.1 ppm. The methylene chloride OSHA "action level" is 12.5 ppm. Other substances detected in trace concentrations less than 1 ppm were hexane, isopropanol, 1,1,1-trichloroethane, trichloroethylene, perchloroethylene, ethyl benzene, toluene, xylene and 1,3,5-trimethyl benzene.

This air sample did not demonstrate the need for respirators. Toluene and benzene are absorbed through the skin and all skin contact must be avoided.

The additive exposure index = conca/TLVa + concb/TLV b + … concn/TLVn = < 0.1 (negligible inhalation risk).

Recommendations

- Full-face respirators are worn for eye and face protection. Possible alternatives are wrap-around-lens type safety glasses (e..g., Uvex "Genesis" or AO Safety "GoggleGear"), and face-shield without a respirator. Chemical resistant aprons with sleeves are also recommended because of the potential for chemical splashes when drum moving, tilting, opening and dumping the drum contents.
- Chemical resistant safety boots should be worn instead of leather shoes.
- Change out of work clothes after dumping drums.

Results

<table>
<tr><td colspan="3">Tony Alvarez, dumping drums at the Return and fill, 450 minutes, December 6, 2000</td></tr>
<tr><td>Substance</td><td>Concentration</td><td>PEL/TLV</td></tr>
<tr><td>/Isopropanol</td><td>0.1 ppm</td><td>400 ppm</td></tr>
<tr><td>Methylene Chloride</td><td>0.1 ppm</td><td>25 ppm PEL</td></tr>
<tr><td>Hexane</td><td>0.3 ppm</td><td>50 ppm</td></tr>
<tr><td>Benzene</td><td>0.013 ppm</td><td>0.5 ppm (Skin), Confirmed Human Carcinogen</td></tr>
<tr><td>1,1,1-Trichloroethane</td><td>0.01 ppm</td><td>350 ppm</td></tr>
<tr><td>Trichloroethylene</td><td>0.05 ppm</td><td>50 ppm</td></tr>
<tr><td>Toluene</td><td>0.1 ppm</td><td>50 ppm (Skin)</td></tr>
<tr><td>Ethyl Benzene</td><td>0.02 ppm</td><td>100 ppm</td></tr>
<tr><td>Perchloroethylene</td><td>0.1 ppm</td><td>25 ppm</td></tr>
<tr><td>Xylene</td><td>0.2 ppm</td><td>100 ppm</td></tr>
<tr><td>1,3,5-Trimethylbenzene</td><td>0.2 ppm</td><td>25 ppm</td></tr>
</table>

Benzene is listed by ACGIH as a confirmed human carcinogen. The “skin” notation indicates that the material is absorbed through the skin.

Cc: Dan Mansueto

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Safety-Kleen Lambton Laboratory Analytical Report

Reference Numbers:	*C2072572* Safety-Kleen	*97Nov 1433* Client (PO or Project #)	
Client:	*Safety-Kleen, Columbia, SC*		
Dates:	*December 7, 2000* Sampled	*January 31, 2001* Submitted	*January 31, 2001* Analyzed
Sample Description:	*Air Monitoring*		

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Industrial Hygiene Analysis Information

(Analytical Results Attached)

Analysis Details		**Type of Analysis**		
		Dust by Gravimetry	**Metals**	**Solvent Extractable Hydrocarbons***
Sampling	Date:			December 7, 2000
	Sampled By:			Gavin Burdge
	Date Submitted:			January 31, 2001
Medium Analyzed	Type:			activated charcoal
	Supplier:			SKC
	Lot Number:			2000
Digestion / Extraction	Method:			NIOSH 1500
	Date:			January 31, 2001
	Analyst:			Larry Core
Analysis	Instrument:			GC/MS
	Date:			January 31, 2001
	Instrumentation Analyst:			Larry Core
	Blank Corrected Analytes:			None
	Sample Discard Date:		(digests consumed during analysis)	February 14, 2001 (expires 2 days after extraction)
Report	Date Reported:			February 7, 2001

*Results are not corrected for desorption efficiencies within NIOSH criteria for method accuracy.
[NIOSH; **"Development and Evaluation Methods"**, *NMAM* 4th ed. (DHHS/NIOSH Pub. No. 94-113) Sect. I, Part E, pp.40 (1996)]

NA = Not Applicable
ND = Not Detected
PQL = Practical Quantitation Limit

Sample submitted to laboratory violated NIOSH protocols for sample hold times.

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Monique Durr, B.Sc.
CHEMIST

Lab Approval:
Monique Durr, B.Sc., C.Chem.
Analytical Specialist

Feb. 7/01
Date

safety-kleen®

Safety-Kleen Lambton Laboratory Analytical Report

Reference Numbers:	*C2072572* Safety-Kleen	*97Nov 1433* Client (PO or Project #)	
Client:	*Safety-Kleen, Columbia, SC*		
Dates:	*December 7, 2000* Sampled	*January 31, 2001* Submitted	*January 31, 2001* Analyzed
Sample Description:	*Air Monitoring*		

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Industrial Hygiene Organics Analysis

Parameters:		**12072000-1**											
Air Volume (L)		42											
	PQL	back charcoal	front charcoal	per air volume	per air volume	back charcoal	front charcoal	per air volume	per air volume	back charcoal	front charcoal	per air volume	per air volume
Units:	µg	µg	µg	mg/m^3	ppm*	µg	µg	mg/m^3	ppm*	µg	µg	mg/m^3	ppm*
Blank Correction:		none	none		corrected	none	none		corrected	none	none		corrected
Isopropanol	0.7	ND	8.5	0.202	0.082								
Acrylonitrile	0.5	<0.7	<0.7	<0.017	<0.008								
Dichloromethane	0.3	1.1	8.5	0.229	0.066								
Methyl Ethyl Ketone	0.5	ND	ND	ND	ND								
Hexane	0.2	9.9	32	0.986	0.280								
Ethyl Acetate	0.2	ND	ND	ND	ND								
Chloroform	0.2	ND	ND	ND	ND								
1,2-Dichloroethane	0.3	ND	ND	ND	ND								
1,1,1-Trichloroethane	0.3	ND	2.4	0.057	0.010								
Benzene	0.5	ND	1.7	0.040	0.013								
Carbon Tetrachloride	0.5	ND	ND	ND	ND								
p-Dioxane	0.2	ND	ND	ND	ND								
Trichloroethylene	0.2	ND	11	0.255	0.047								
Methyl Isobutyl Ketone	0.2	ND	ND	ND	ND								
1,1,2-Trichloroethane	0.2	ND	ND	ND	ND								
Toluene	0.5	ND	18	0.429	0.114								
n-Butyl Acetate	0.2	ND	ND	ND	ND								
Tetrachloroethylene	0.2	ND	37	0.879	0.130								
Chlorobenzene	0.2	ND	ND	ND	ND								
Ethylbenzene	0.2	ND	2.7	0.064	0.015								
p- & m- Xylene	0.2	ND	14	0.340	0.078								
Styrene	0.3	ND	ND	ND	ND								
o-Xylene	0.3	ND	17	0.398	0.092								
1,1,2,2-Tetrachloroethane	0.2	ND	ND	ND	ND								
1,3,5-Trimethylbenzene	0.3	ND	37	0.888	0.181								
1,3-Dichlorobenzene	0.2	ND	ND	ND	ND								
1,4-Dichlorobenzene	0.2	ND	ND	ND	ND								
1,2-Dichlorobenzene	0.2	ND	ND	ND	ND								
1,3,5-Trichlorobenzene	0.2	ND	ND	ND	ND								
1,2,4-Trichlorobenzene	0.2	ND	ND	ND	ND								
1,2,3-Trichlorobenzene	0.2	ND	ND	ND	ND								
Naphthalene	0.2	ND	ND	ND	ND								
GC/FID Low Boiling Hydrocarbons		ND	ND	ND	ND								
Medium boiling Hydrocarbons		ND	ND	ND	ND								
High Boiling Hydrocarbons		ND	ND	ND	ND								

ppm*- volume/volume, assuming compounds are an ideal gas at normal tempurature,25°C(298K), and pressure,760mm Hg (101.33kPa).(NTP)

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Monique Durr, B.Sc.
CHEMIST

Lab Approval:
Monique Durr, B.Sc.,C.Chem.
Analytical Specialist

Date: Feb. 7/01

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FIELD FORM AND CALIBRATION DOCUMENTATION

Sample Number					Facility #	Facility Location
12	6	2000	GB			Dolton, IL
Month	Day	Yr	Initials	No.		

EMPLOYEE INFORMATION

Employee Name Last: Alvarez	First: Tony		
Sample Obtained for: BZ	Location/Area:	SHIFT	Start time 1500
Job Title: Material Handler	Device Type: Badge or [✓ Pump]	2ND	Stop time 2300
Job Task: Dolton, IL Return + Fill Dumping 105 + 150 Mineral Spirits @ Dolton Location R/C. (Part of Dec. 5-7, 2000 Dolton RC IH Report, Tube was not initially Sent to LAB			

SAMPLING INFORMATION

Precalibration Date: 12/6/2000	Flowrate: 0.090 lpm	Postcalibration Date: 12/7/2000	Flowrate: 0.097 lpm
Temperature: C (Degrees Centigrade)		Pressure: Std. mmHg (Millimeters of Mercury)	
Sample Duration: 450 mins	Start time: 1600		Stop time: 2330
Collection Media booms CT	Sample Type Taken Code BZ		Analytical Method GC/MS
Lab: LAMBTON Occ. Hygiene LAB	Date Sent:		Ventilation: Local Dilution
Total Shift Length: 480 mins	Full Shift: [✓ YES] NO		Remainder of Exp. Time: mins

PERSONAL PROTECTIVE EQUIPMENT

Respiratory:	[✓ YES] NO	TYPE code:	OV Cartridges	Cartridge code:	
BODY code*	Full-Face Resp	EYE code:	Safety Glasses	HAND code:	Best Neoprene
HEAD code:	N/A	OTHER codes:			

COMMENTS

450 Mins @ 95

Pre-program Pump on 1600, off 2330

*Work Uniform, No Coveralls or Apron

Leather Non-Chem. Resistant Shoes

Resp Worn when Dumping Drums

SAMPLING PERFORMED BY: G Burdy

LAIDLAW ENVIRONMENTAL SERVICES

4090 Telfer Rd.
R.R. #1 Corunna, Ontario
N0N 1G0

Telephone:
(519) 864-1021
1-800-265-7549

Facsimile:
(519) 864-3816 (Laboratory)
(519) 864-3914 (Customer Service)

Internet E-mail:
LambtLab@LESCorp.com

Request For Laboratory Analytical Services

Lambton Laboratory

Client Reference Number
97Nov 1433

For Lab Use Only
Page:______ of______
LES No: C
Received: Time Date By:
Logged In: Time Date By:

Client
Contact GAVIN BURDGE Title IH
Company SAFety-Kleen CORP Dept. H+S
Street Address 1301 GERVAIS St.
City, Province/State COLUMBIA, SC Postal/Zip Code 29201
Telephone No. (803) 933-4850 Fax No. (803) 933-4855
Client Project Identification Dolton IH Return + Fill

Send Invoice To
Contact SAME Title
Company Dept.
Street Address
City, Province/State Postal/Zip Code
Telephone No. Fax No.
Client Purchasing Identification

Date Results Required: ASAP
LES Contact(s): SAME

Turnaround Time:
☒ Normal (15 business days or as arranged)
☐ Priority (5 business days, notify lab)
☐ Emergency (48 hours, notify lab)
Prior lab notification is always recommended but is required for less than ten day turnaround.

Lab Use Only

Analysis Requested
Enter an 'X' in the box below to indicate request (specify required detection limit).

#	Sample Identification and Description (one line per container)	Date Sampled	Comments/ Preservations	Amount of Sample	AIR Volume (Liters)										Known Hazards attach information ie. MSDS's
1	12072000-1	Dec 7, 2000	O.V SCAN		42										
	NO BLANK														
	BLANK SAME AS SK 2065745														
	SUBMITTED Dec 5-7, 2000														
	PROJECT 97NOV 1673														

Chain of Custody
Relinquished by: G. Burdg Time 1310 Date JAN 30, 2001
Received by: Time Date
Relinquished by: Time Date
Received by: Time Date

Authorized by: __________ Date JAN 30, 2001
Client signature must accompany request.

Send report to: ☐ Client ~~☐ LES Contact~~ ☐ Other
Special Instructions (method, limit of detection, fax results...):

Distribution: White / LES Lab Yellow/Accounting Pink/TSR Gold/Client

Shaded areas for lab use only

safety-kleen.

To: Corporate IH File

From: Chris Bachman

Date: 4/22/05

Re: Routine Branch IH sampling event

On January 11th, 13th and January 18th, 2005 Safety-Kleen was provided with professional IH monitoring services through AIG Insurance. The objective of the surveys was to monitor (1) CSRs for solvent exposure during parts washer services, unvented gun cleaners, dry cleaning services and (2) monitor Material Handlers for solvent and noise exposure during dump/fill operations.

All results were below 50% of the applicable OSHA and ACGIH values except for the Short Term (STEL) sample for Toluene (67% of OSHA Ceiling) during the unvented gun cleaner service and the ACGIH 80-db average for Noise (88.0 db). Results will not effect the current branch PPE hazard assessments (9/2004) for servicing unvented gun cleaners, parts washers and dump/fill operations (while using pneumatic gun).

Sound Level Measurements for Dumping and Filling Operation
January 18, 2005

Location	**Sound Level (dBA)***
Moving drums with forklift onto rack	**87.5**
Drums banging on floor	**91.4 – 98.3**
Two drums banging together	**92.4**
Metal lids thrown into drums	**103.5**
Unscrewing nut on drum with pneumatic drill	**103 – 105.8**
Using pneumatic drills	**95.3 – 102.2**
Drum rolling in washer without spray	82
Drum rolling in washer with solvent spray	**95**
Scraping labels off of drums	78 to 81

Bolded results indicate sound level readings above the OSHA action level and/or PEL

Noise Monitoring Results for Dumping and Filling Operation
January 18, 2005

Employee/ Location	Time (hh:mm) On/Off	Dose[a], % 80-db Threshold	Lavg[b], dBA 80-db Threshold	Dose[a], % 90-db Threshold	Lavg[b], dBA 90-db Threshold	ACGIH Dose[a], % 80-db Threshold	ACGIH Lavg[b], dBA 80-db Threshold
Material Handler	3:31 (9:46 – 1:18)	22.08	**85.1**	11.61	80.4	86.75	**88.0**
			OSHA AL= 85 dBA		OSHA PEL= 90 dBA		ACGIH TLV® = 85 dBA

Bolded results indicate above the OSHA action level / ACGIH TLV

Field Service Short-Term (STEL) Sampling Solvent Results (1/13/05)

Employee	Time (min)* (Start/Stop)	Sample No.	Analyte	Result (ppm)	OSHA PEL Ceiling/STEL (ppm)	ACGIH TLV® Ceiling/STEL (ppm)
CSR - *Servicing unvented gun cleaner.*	10 (9:24 –9:35)	13-3T	Acetone	46	NE	750
			Toluene	**200**	**300 C**	NE
		13-4M	Methanol	21	NE	250

Bolded results indicate above the OSHA action level / Ceiling Limit

Time-Weighted Average Sampling (1/11/05)

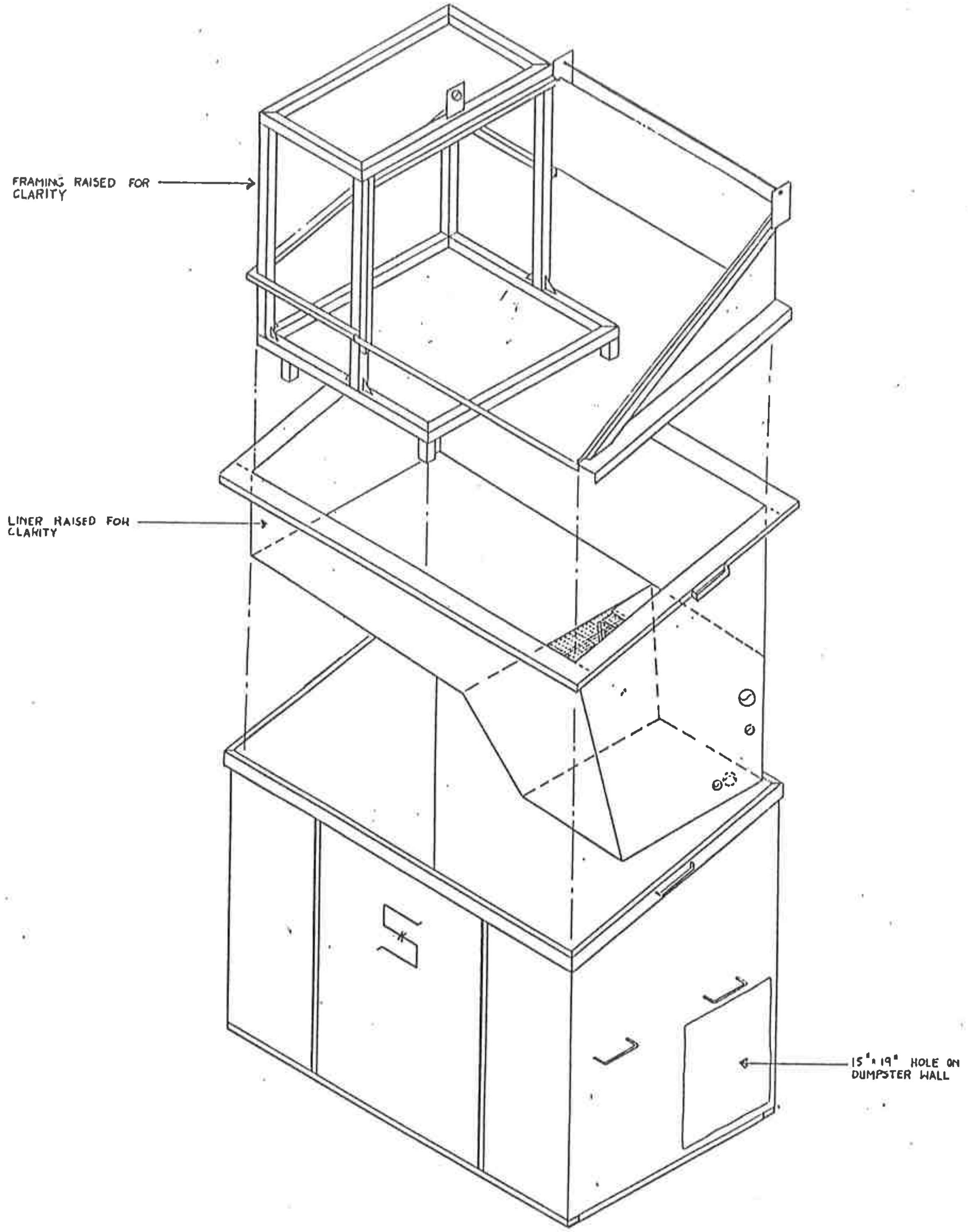
Employee	Sample No.	Time (min)* (Start/Stop)	Analyte	Result (ppm)	OSHA PEL (ppm)	ACGIH TLV® (ppm)
CSR *Servicing Parts Cleaner that uses 150 Gold*	A-1	286 (8:57 – 3:41)	Total Hydrocarbons (as Stoddard solvent)[a]	≤ 2.4	500	100
			Tetrachloroethylene	0.13	100	25
			1,1,1-Trichloroethane	< 0.09	350	350

Short-Term (STEL) Sampling Solvent Results (1/11/05)

Employee	Sample No.	Time (min)* (Start/Stop)	Analyte	Result (ppm)	OSHA PEL Ceiling/STEL (ppm)	ACGIH TLV® Ceiling/STEL (ppm)
CSR- *Servicing Model 81 Agitating Parts Cleaner that uses 150 Gold.*	S-1	32 (10:05 – 10:37)	Total Hydrocarbons (as Stoddard solvent)[a] Tetrachloroethylene	2.4 < 0.1	NE 200 C	NE 100
CSR *Servicing Parts Cleaner that uses 150 Gold.*	S-2	23 (11:09 – 11:32)	Total Hydrocarbons (as Stoddard solvent)[a] Tetrachloroethylene	≤ 2.4 < 0.2	NE 200 C	NE 100
CSR- *Removing 2 sealed perc containers from dry cleaning store*	S-3	10 (1:43 – 1:53)	Tetrachloroethylene 1,1,1-Trichloroethane	< 0.4 < 0.5	200 C NE	100 450
CSR- *Removing 2 perc containers from dry cleaning store. One container not sealed properly.*	S-4	13 (2:40 – 2:53)	Tetrachloroethylene 1,1,1-Trichloroethane	3.7 < 0.4	200 C NE	100 450

Table IV: Dumping and Filling Time-Weighted Average Sampling (1/18/05)

Employee	Time (min)* (Start/Stop)	Sample No.	Analyte	Result (ppm)	OSHA PEL (ppm)	ACGIH TLV® (ppm)
George Huggins *Dumped about fifteen 30-gallon drums of 150 solvent and nine 16-gallon drums of 105 solvent; cleaned a filter and worked with a mechanic.*	175 (9:38 – 12:34)	18-1	Total Hydrocarbons (as Stoddard solvent)[a]	1.7	500	100
			Tetrachloroethylene	0.20	100	25



SOUTHWEST INDUSTRIAL CONSTRUCTORS INC.

DATE: 1/19/90

JOB NO:

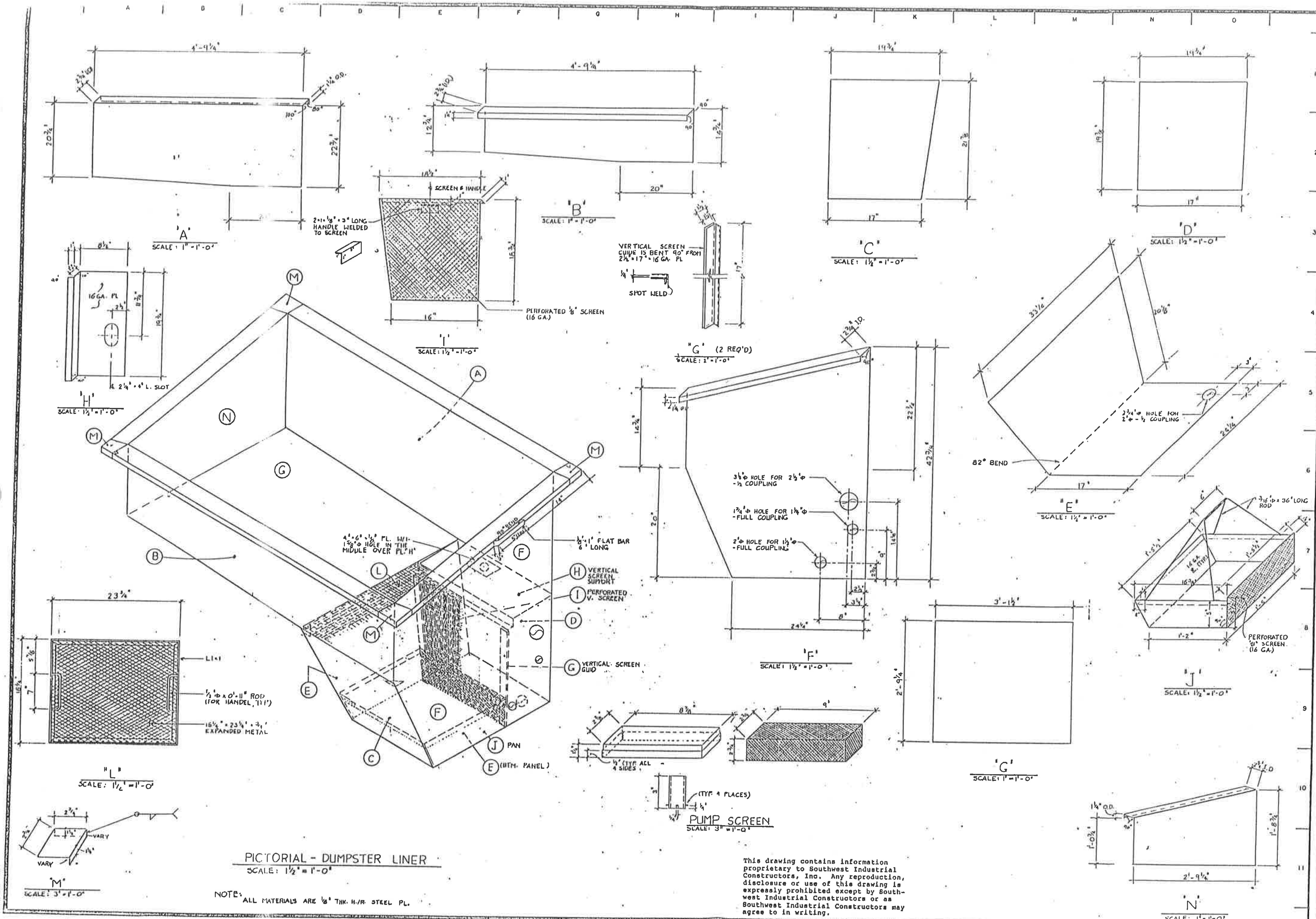
DWN: ALI

CHK:

SAFETY - KLEEN DRUM WASHER

SHEET NO. 1 OF

This drawing contains information proprietary to Southwest Industrial Constructors, Inc. Any reproduction, disclosure or use of this drawing is expressly prohibited except by Southwest Industrial Constructors or as Southwest Industrial Constructors may agree to in writing.



PICTORIAL - DUMPSTER LINER
SCALE: 1½" = 1'-0"

NOTE: ALL MATERIALS ARE ⅛" THK. H./R. STEEL PL.

This drawing contains information proprietary to Southwest Industrial Constructors, Inc. Any reproduction, disclosure or use of this drawing is expressly prohibited except by Southwest Industrial Constructors or as Southwest Industrial Constructors may agree to in writing.

SOUTHWEST INDUSTRIAL CONSTRUCTORS, INC.

DATE: 1/19/90
JOB NO:
DWN: ALI
CHK:

SAFETY - KLEEN DRUM WASHER

SHEET NO.
12
OF

Tab 8

Part II.K

Closure Plan

Part II

K. CLOSURE PLAN

Safety-Kleen constructed the Medley 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 Medley facility will remain in operation for many years to come. 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 most current requirements and FDEP guidance documents.

FACILITY DATA

1. Waste Management Facility Descriptions
    a. RCRA-Permitted Hazardous Waste Tank (Used Solvent): The tank is a 20,000-gallon steel tank. This tank is located within a containment system consisting of a 58’ x 40’ foundation slab with 36¼” to 38” perimeter walls as the floor slopes toward the south.
    b.
    c. Solvent Return/Fill Shelter: The shelter is a 54½’ x 80’ structure, located between the office area and main 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 505 gals (each).
    d. Container Storage Area: The container storage area is a 49¼’ x 80’ ft. area with a sloped floor and secondary containment collection sump. The maximum storage capacity is 29,4000 gallons with 6,912 gallons of hazardous

waste container storage. Containerized waste to be stored in this area will consist of used oil filters, paint wastes, branch generated debris, dry cleaning waste, spent immersion cleaner, and any overflow transfer waste if necessary.

2. Maximum Inventory of Wastes

   a. Used Parts Washer Solvent: 20,000 gallons
   b. Wet Dumpsters: 1,008 gallons
   c. Containerized Waste: 6,912 gallons. (Note: This includes any combination of 5, 16, 30, 55, 85-gallon containers, and 330-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 or Clean Harbors TSDF or permitted 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. Final rinsate samples will be collected and analyzed to determine the effectiveness of decontamination. Unless otherwise designated in the formal closure plan, rinsate samples will be collected from the container storage area. The rinsate samples 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. Decontamination of the mercury-containing 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 be 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 RCRA-Permitted Hazardous Waste Tank (Used Solvent) 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 RCRA-Permitted Hazardous Waste Tank (Used Solvent), and at the containment system sumps;

2. Beneath the most prominent of any cracks observed in the slab, and under the tanker connections.
3. The rainwater discharge area in the stormwater retention area.

- 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.
- 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.
- If required, 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.
- If soil removal becomes necessary, Safety-Kleen will backfill the excavated area 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.

All sampling and analyses will be done in accordance with FDEP Standard Operating Procedures (SOPs).

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:

The activities required to comply with this paragraph will, of necessity, take longer than 90 days to complete; or

1. 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 Medley facility.

CONTINGENT POST-CLOSURE PLAN

The tank system at the Medley 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	$44,879
• Storage Tank Decontamination	$17,831
• Decontaminate the Return/Fill Station	$20,231
• Decontaminate Container Storage Area	$12,643
• Containerize, Stage, Transport and Dispose of Decon Wastes	$25,112
• Closure Certification Report	$12,354
Subtotal	$133,051
2022 Total CCE with Inflation	$165,096
15% contingency	$24,764
2022 Total CCR with Inflation and Contingency	**$189,860**

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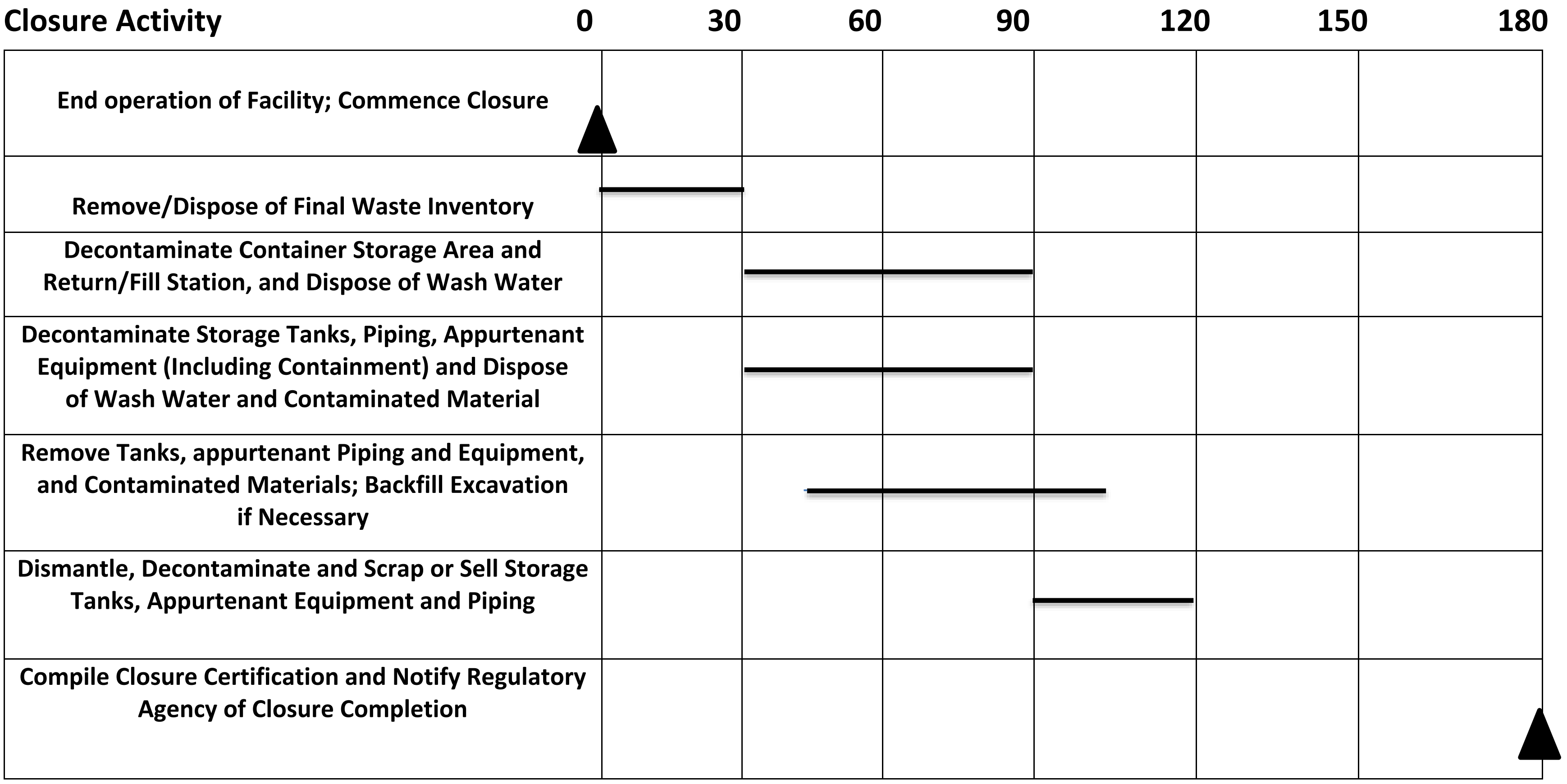
Figure 10.3-1

Typical Closure Schedule

Safety-Kleen Medley



Tab 9

Part II.P

P. Information Regarding Potential Releases from Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs)

Facility Name Safety-Kleen Systems, Inc.

EPA/DEP I.D. No. FLD 984 171 694

Facility location Medley (City) Florida (State)

1. Are any of the following (SWMUs or AOCs), existing or closed at your facility?

A SWMU is a discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include all areas at a facility where solid wastes have been routinely and systematically released, as described in the July 27,1990 Federal Register (55 FR 30798). The SWMU list in this form does not include all types of SWMUs. These are examples of the more common types of units. If you have a different type of SWMU, mark "yes" under "other".

AOCs are indiscernible units at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Examples of AOCs include areas where loading and unloading of chemicals may have occurred or an area of contamination with no known source.

Do not include hazardous waste units that are currently being permitted 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	☑ Yes	☐ No
Injection wells	☐ Yes	☑ No
Wastewater treatment units	☐ Yes	☑ No
Transfer station	☑ Yes	☐ No
Waste recycling operations	☑ Yes	☐ No
Land treatment facility	☐ Yes	☑ No
Boiler/industrial furnace	☐ Yes	☑ No
Satellite accumulation areas	☑ Yes	☐ No
Less than 90-day storage units	☐ Yes	☑ No
Stormwater retention ponds	☐ Yes	☑ No
Septic tanks	☐ Yes	☑ No
Used oil/oil filter collection units	☑ Yes	☐ No
Aerosol can/drum crushers	☐ Yes	☑ No
On-ground areas, pits, ditches	☐ Yes	☑ No
Other (units not listed above)	☑ Yes	☐ No

2. For each "yes" answer in one (1.) above, on separate sheet(s) of paper:

   a. Describe the wastes that were stored, treated or disposed of in each unit, and whether 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.

   b. Describe each unit, type of unit including construction details, capacity, dimensions (supply any available drawings), and location at the facility on the topographic map provided under 40 CFR 270.14(b)(19). Provide a site plan, if available, and the dates of operation of the unit [40 CFR 270.14(d)(1)]. If the information has previously been submitted formally to the Department, references to the documents and or summary tables may be submitted to meet this requirement.

   c. Include a copy of federal, state and local permits or authorizations for SWMUs that may be permitted under other environmental programs.

3. For each unit described in two (2.) above, and for each hazardous waste unit in your Part B application [40 CFR 270.14(d)(2)], on separate sheet(s) of paper, provide available data 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. If the data has previously been submitted formally to the Department, references to the documents and or summary tables may be submitted to meet this requirement. Provide the following information for each SWMU/AOC:

   a. Date of release
   b. Estimated or known quantity or volume of waste released
   c. Location of the release
   d. Describe the nature of the release (i.e., spill, overflow, ruptured pipe or tank, etc.).

4. Provide, for each unit, all available analytical data that describes the nature and extent of the environmental contamination due to the releases described in three (3.) above, on separate sheet(s) of paper. Focus on the concentrations of hazardous wastes or constituents present in contaminated media (e.g., soil, sediment, surface water and groundwater) [40 CFR 270.14(d)(3)]. If the information has previously been submitted formally to the Department, references to the documents and or summary tables may be submitted to meet this requirement.

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 (Above Ground Storage Tank Area) is described within the permit application in section Part II C.

SWMU-3 (Return/Fill Area) is described within the permit application in section Part II C.

SWMU-4 (Mercury Lamp Storage Area (Inside SWMU-1)) is designated for storage of mercury bulbs & devices. It is situated in the southeast corner of the container storage area. The area is approximately 4’ x 19’ 4”. Mercury bulbs are stored in 4 ft. and 8ft. boxes and devices are stored in 5-gallon poly containers.

SWMU-5 (Used Antifreeze Tanker) was located in the parking lot of the facility in the southeastern corner of the lot. This SWMU consisted of a 8,000 gallon tanker trailer that had been used for the storage of Used Antifreeze. Sometime in 2009 this tanker trailer was removed from service and in July 2012 was removed from the site.

SWMU-6 (Used Oil Filter Storage Area (Inside SWMU-3)) is located within SWMU-3 and is used for storage or Used Oil Filters in 30, and 55-gallons steel or poly containers. Any overflow of Used Oil Filter containers will be stored in the container storage area. Prior to 2009 Used Oil Filters were stored in 350-gallon bins on the tank farm pad (south side of tank farm). In late 2010 the storage of filters changed to this current location.

SWMU-7 (Transfer Waste Storage Area (Inside SWMU-1)) is described within the permit application in section Part I D, page #3.

SWMU-8 (Municipal Dumpster) is a municipal dumpster located in the northeast portion of the parking lot. This dumpster was moved to the parking lot area to the left of the south entrance gate in September 2017.

SWMU-9 (Containerized Waste Loading/Unloading Dock) is the containerized waste loading/unloading dock and is located on the southeast corner of the facility building. In this area waste containers are loaded for shipment to permitted TSDF's for reclamation/disposal and product is unloaded into the branch for storage. In addition, this area may also be used for unloading of waste containers from branch route trucks.

SWMU-10 (Satellite Container Storage Area (Inside SWMU-3)) is for Satellite container used for branch debris (sludge from wet dumpsters, used PPE, sampling equipment, etc.). This is inside SWMU-3 and is located adjacent to the northern most wet dumpster. Satellite containers are mostly 55-gallon steel containers, but 30-gallons steel containers may be used if no 55 gallon containers are available.

SWMU-11(Tank Farm Discharge Area) is an area located immediately west of the above ground tank farm. This area receives sheen-less stormwater that is pumped out of the secondary containment of the tank farm and tank farm pad after rain events provided that no sheen exists. In June 2009, as part of SK Medley's Miami-Dade DERM Industrial Waste Operating Permit, samples were taken from monitoring well-1 (MW-1). Analysis from this event detected three volatile organic compounds (VOCs). A summary of the event can be found in Part II Q of this renewal application. In addition, a copy of the current Miami-Dade DERM Industrial Waste Operating Permit is included in this Section.

SWMU-12 (French Drain) is the French Drain System for the facility. This system provides stormwater drainage off the paved areas of the facility. There are six catch basins located on the property. Figure 2.2-5 Drainage Plan provides information on the system. These catch basins are identified on Figure Part II Q.

SWMU-13 (Oily Water Frac Tank) is a 18,000 gallon Frac tank located at the northeast corner of the facility parking lot. It is used for storage of non-hazardous Vacuum Services material collected from customer sites.

Part II P.3 Prior Releases at SK Medley Facility

Date	Material	Amt. (gallons)	Explanation
5/15/06	Oily Water	60	Pump seal broke – causing contained spill at tank farm pad
9/20/06	Used Oil	60	Hose failed – causing spill in tank farm secondary containment and on tank farm pad
5/4/07	Hydraulic Oil	20	Hose on Vac truck failed – causing contained spill on tank farm pad
11/21/09	Used Oil	50	Tanker overflow – causing contained spill on tank farm pad
7/9/10	Latex Paint	1	5-gallon paint container fell – causing spill on the back loading/unloading dock
4/20/12	Used Oil	10	Hose came loose during off-load – caused contained spill on the tank farm pad
7/27/15	Oily Water	3	Hose came loose while off-loading oily water at tank farm pad. Release onto tank farm pad in containment.
4/4/17	Oily Water	140	Driver moved truck while still hooked up to oily water tank. Hose disconnected from tank releasing approximately 140 gallons of oily water into tank farm secondary containment.
10/20/20	Oily Water	8	While removing waste from the frac tank, a third-party driver was switching between tanks and the valve leaked 5-8 gallons of oily water onto the asphalt surrounding the frac tank.
6/30/21	Used Motor Oil	20	The gasket on the access hatch of the Used Motor Oil tank ruptured releasing approximately 20 gallons of used motor oil in the tank farm secondary containment.

Tab 10

Part II.Q Information Requirements for SWMUs

Part II

Q. INFORMATION REQUIREMENTS FOR SOLID WASTE MANAGEMENT UNITS

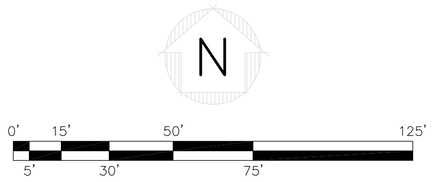
Part II.Q. of the Florida Department of Environmental Protection's (FDEP's) Application for a Hazardous Waste Permit outlines the information requirements for solid waste management units (SWMU's) at the facility. This section provides the required information.

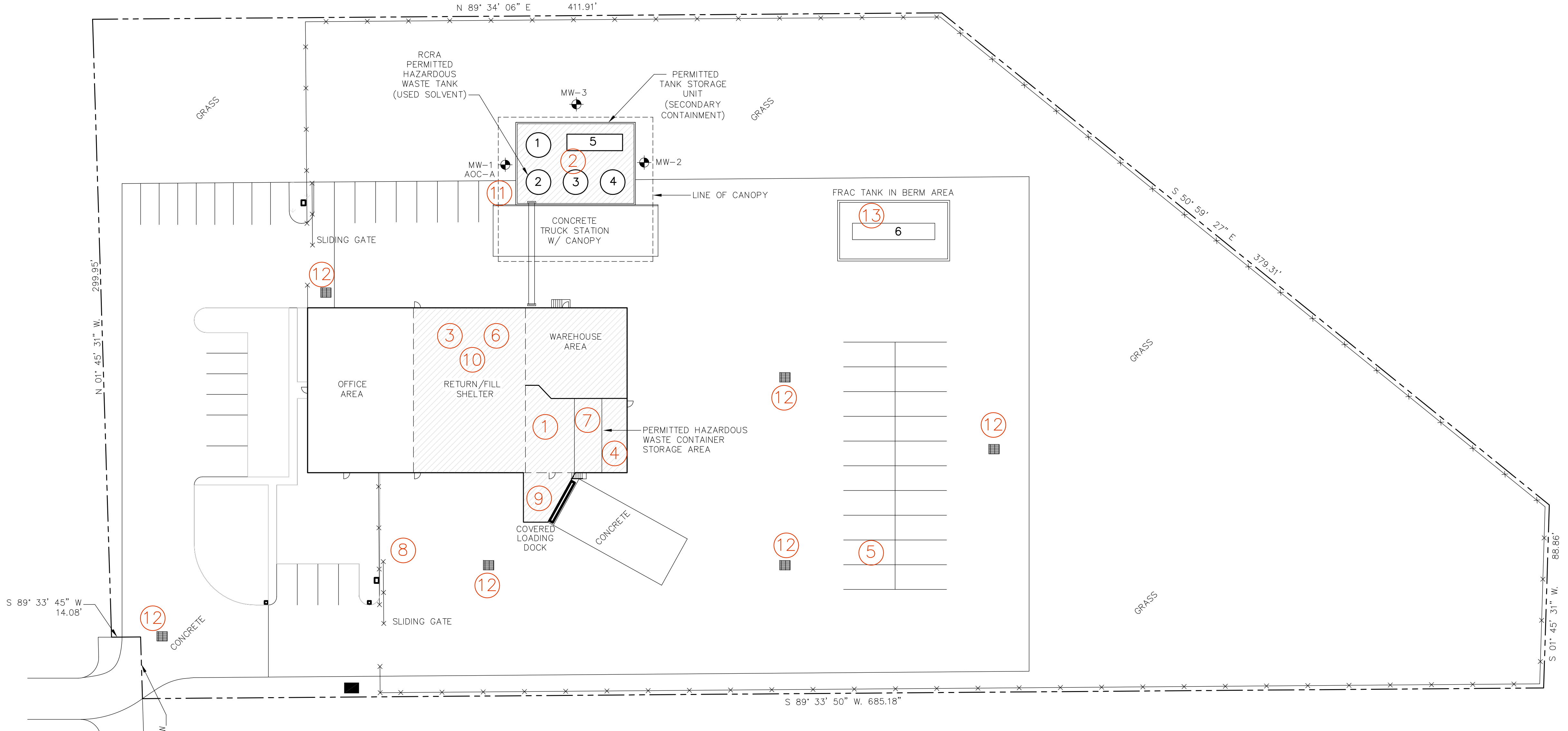
On February 12, 1993, the facility was issued a HSWA permit from Region 4 of the United States Environmental Protection Agency (USEPA). The HSWA permit (Permit No. FLD 984171694) expired on February 12, 2003 and all HSWA corrective action conditions were incorporated into the state permit issued on June 24, 2002.

Thirteen (13) SWMU's have been identified at the facility along with one Area of Concern (AOC). The Thirteen SWMU's and one AOC are listed below:

SWMU NUMBER	**DESCRIPTION**
1	Container Storage Area
2	Permitted Tank Storage Unit (Secondary Containment)
3	Return/Fill Shelter
4	Mercury Lamp Storage Area (Inside SWMU-1)
5	Used Antifreeze Tanker (removed 2012)
6	Used Oil Filter Storage Area (Inside SWMU-3)
7	Transfer Waste Storage (Inside SWMU-1)
8	Municipal Dumpster
9	Containerized Waste Loading/Unloading Dock
10	Satellite Container Area (Inside SWMU-3)
11	Secondary Containment Stormwater Discharge Area
12	French Drain System
13	Oily Water Frac Tank
AOC-A	Vicinity of monitoring well 1 (No further action at this time according to 4/5/2013 SRCO)

Appendix A, at the end of this section, includes the annual groundwater reports required by the SK Medley facility as part of its’ Miami-Dade County Industrial Waste Operating Permit (IW-000333).





GENERAL NOTES

TANK LEGEND

TANK NO.	TANK VOLUME	TANK CONTENTS	REMARKS
1	20,000 USG	FRESH SOLVENT	
2	20,000 USG	USED SOLVENT	
3	20,000 USG	USED OIL	
4	15,000 USG	USED OIL	
5	10,000 USG	OILY WATER	
6	18,000 USG	OILY WATER	

REVISIONS

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

LEGEND

– – – PROPERTY BOUNDARY

×–×–× CHAIN LINK FENCELINE

▨ HAZARDOUS WASTE MANAGEMENT AREAS

▭ ○ EXISTING ABOVE GROUND STORAGE TANKS

MW–1 ⊕ GROUND WATER MONITORING WELL

▦ STORM WATER CATCH BASIN

① CONTAINER STORAGE AREA INSIDE SERVICE CENTER
② PERMITTED TANK STORAGE UNIT (SECONDARY CONTAINMENT)
③ RETURN/FILL SHELTER
④ MERCURY LAMPS STORAGE AREA (INSIDE SWMU)
⑤ USED ANTI FREEZE TANKER (REMOVED 2012)
⑥ USED OIL FILTER STORAGE AREA (INSIDE SWMU)
⑦ TRANSFER WASTE STORAGE AREA (INSIDE SWMU)
⑧ MUNICIPAL DUMPSTER
⑨ CONTAINERIZED WASTE LOADING/UNLOADING DOCK
⑩ SATELLITE CONTAINER AREA (INSIDE SWMU)
⑪ TANKFARM DISCHARGE AREA
⑫ FRENCH DRAIN
⑬ OILY WATER FRAC TANK

PROPRIETARY STATEMENT

TITLE

FIGURE PART II–Q
LOCATIONS OF SOLID WASTE MANAGEMENT UNITS (SWMU)

SAFETY–KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781–792–5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
1"=30'	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC–DWG NUMBER	REV. NO.
MEDLEY, FL	7096–SP00–001	A

PART II.Q Appendix A

Annual Groundwater Monitoring Reports 2018-2022

Industrial Waste Operating Report Form (IWORF)

Permit #: IW-333 **Permit Year:** 2017

Reports must be mailed to:
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Ct, Suite #700
Miami, FL 33136-3912

Facility Name: SAFETY-KLEEN SYSTEMS, INC.

Facility Address: 8755 NW 95 ST
MEDLEY, FL 33178

Contact Name: Mr. Larry Rodriguez

Instructions: Indicate which report is being provided by checking off the applicable "Source Type" box(es) from the listing below. In addition, indicate the period being reported and attach the applicable information (e.g. waste manifests, analytical results, etc.) as required by each Source Type. Refer to the operating permit document for more information on reporting and sampling requirements, including analytical methodologies, applicable to the referenced facility.

Reporting Requirements:

☐ Source Type:RR-1 Reporting Frequency: Quarterly Reporting Period: ____________

Description: Copies of manifests and/or receipts of all hazardous waste, industrial waste, industrial wastewater, sludge and/or ash disposed of. Information shall include name of hauler, volume and final destination. Records shall also be maintained on-site for review.

Sampling Requirements:

☒ Source Type: SMP-1 Reporting Frequency: Annually Reporting Period: 6/15/18

Description: Groundwater from the facility monitoring well(s).

Parameters: Cadmium (Total), Chromium (Total), Lead (Total), Silver (Total)

☒ Source Type: SMP-2 Reporting Frequency: Annually Reporting Period: 6/15/18

Description: Groundwater from monitoring well nearest the containment area stormwater discharge point.

Parameters: EPA Series 8260, EPA Series 8270, TRPH

Average Daily Waste Water Flow Discharge to Sanitary Sewers: ____________ Gallons Per Day (GPD)

I hereby certify that, to the best of my knowledge, this document and all attachments are true, accurate and complete.

Authorized Representative or Corporate Officer

5/18/18
Report Completion Date

ECT Environmental Consulting & Technology, Inc.

May 18, 2018
180212-1801

Mr. Michael Montano, Environmental Specialist Supervisor
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, Suite #700
Miami, Florida 33136-3192

Re: Safety-Kleen Systems, Inc., Medley, Florida
Industrial Waste Permit No. IW-000333-2017/2018 (File # 10139)
Annual Report of Groundwater Quality

Dear Mr. Montano:

On behalf of Safety-Kleen Systems, Inc. (S-K), this document comprises the Annual Report of Groundwater Quality as required by Specific Condition 16 and the associated sampling requirements in the above-referenced Industrial Waste Annual Operating Permit for S-K's Medley, Florida facility. Environmental Consulting & Technology, Inc. (ECT) completed the annual groundwater sampling at the above-referenced Medley facility in accordance with the facility's permit.

On April 13, 2018, ECT collected groundwater samples from monitoring wells MW-1, MW-2R (a.k.a. MW-2), and MW-3 per the annual SMP-1 requirement, and from monitoring well MW-2R per the annual SMP-2 requirement. The samples from all three wells (for SMP-1) were submitted to Pace Analytical Services, Inc. (PAS) for analyses of the silver, cadmium, chromium, and lead by U.S. Environmental Protection Agency (EPA) Method 200.8. In addition, samples from monitoring well MW-2R (for SMP-2) were also submitted to PAS for analyses of volatile organic compounds (VOCs) by U.S. EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Florida Petroleum Range Organics (FLPRO). The locations of the facility's groundwater monitoring wells are shown on the enclosed Figure 2.1-1.

A peristaltic pump was used to purge and sample the monitoring wells. The field notes, groundwater sampling logs, and equipment calibration forms are provided in Attachment A. The groundwater quality results (laboratory report) are provided in Attachment B.

The laboratory report indicated that concentrations for three of the four metals (i.e., silver, cadmium, and lead) were below their respective method detection limits (MDLs) in all three wells sampled per the annual SMP-1 requirements. Chromium was detected at estimated concentrations of 0.52I micrograms per liter (µg/L) at monitoring wells MW-1, 0.62I µg/L at MW-2R; and 0.68I µg/L at MW-3. However, those concentrations were detected between the laboratory MDL and the laboratory practical quantitation limit (PQL) and are far below the groundwater clean-up target level (GCTL) of 100 µg/L for chromium as specified in the permit.

Per the annual SMP-2 requirement at monitoring well MW-2R, the laboratory report indicated the following results for the various analyses of organic parameters:

1. FLPRO concentrations were below the MDL; that is, none was detected.
2. No SVOC was detected (i.e., EPA Series 8270 parameters), with two exceptions. Specifically, naphthalene and 1-methylnaphthalene were detected at estimated

1408 N Westshore
Blvd, Suite 115
Tampa, FL
33607

(813) 289-9338

FAX
(813) 289-9388

concentrations of 0.078I µg/L and 0.0.53I µg/L. However, those concentrations were detected between the laboratory MDL and the laboratory PQL and are far below their GCTLs of 14 µg/L for naphthalene and 28 µg/L for 1-methylnaphthalene as specified in the permit.

3. No VOC was detected (i.e., EPA Series 8260 parameters).

As such, the observed groundwater quality is compliant with the permit.

If you have any questions regarding this report, please call Jeff Curtis of S-K at (561) 523-4719. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Keith F. Morrison

Keith F. Morrison
Project Manager

Gregory B. Page, P.E.
Senior Engineer III

SAFETY-KLEEN SYSTEMS, INC.

Jeff Curtis
EHS Manager, Florida
Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida 33426
jeff.curtis@safety-kleen.com

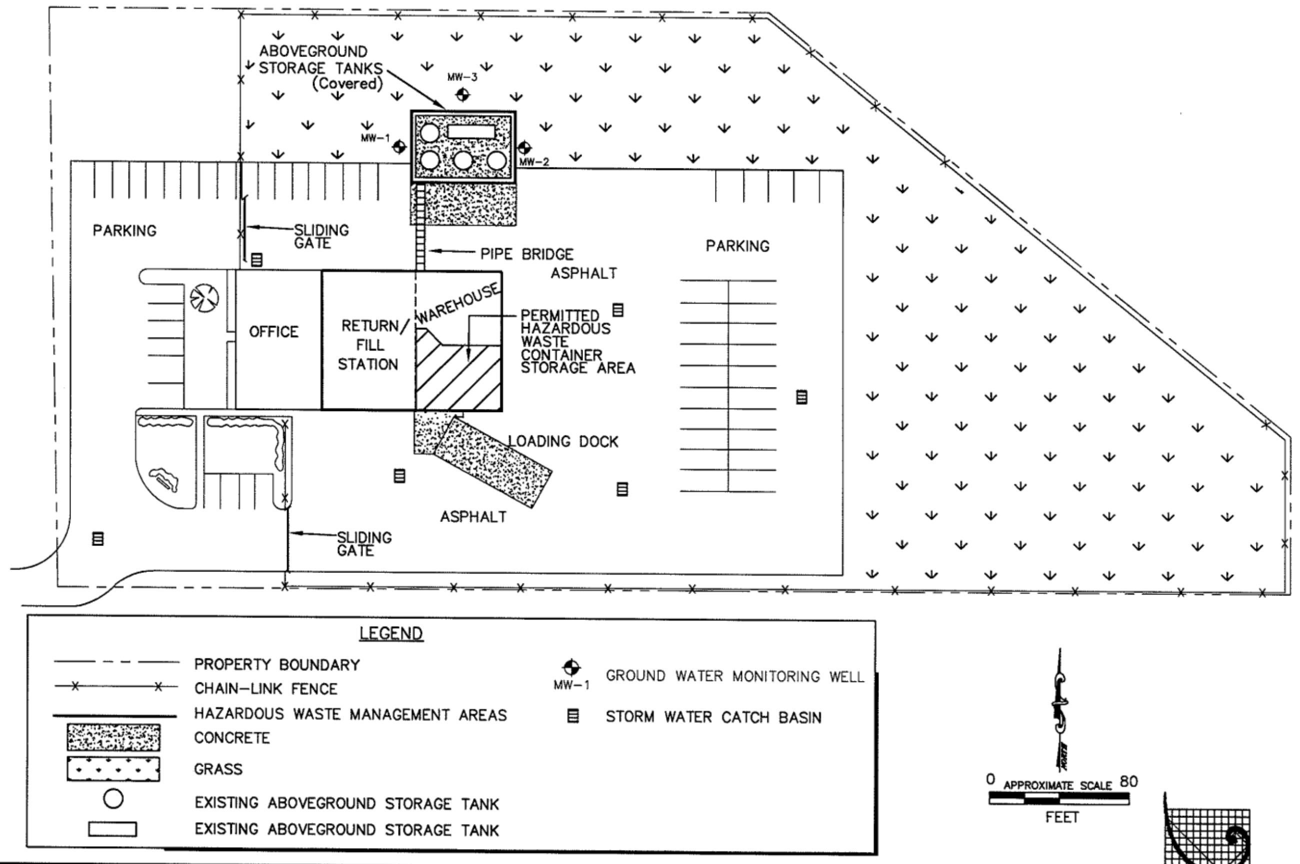
Enclosures:
Figure 2.1-1
Attachment A – Field Notes, Groundwater Sampling Logs, and Equipment Calibration Logs
Attachment B - Laboratory Reports

cc: Robert Schoepke – S-K (electronic only)
Greg Page – ECT (electronic only)
Keith Morrison – ECT (electronic only)
Facility 999 File #1760, % S-K Medley facility Branch General Manager

FIGURE

Revision 0 – 09/20/12

Figure 2.1–1
Facility Layout & Access Control Features
Safety–Kleen Systems, Inc. Facility
Medley, Florida



ERM

58585SAFKLN\01 MEDLEY\2012\Fig 2.1–1.DWG YMT

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS, AND EQUIPMENT CALIBRATION LOGS

Annual Groundwater Monitoring Per Industrial Waste Operating Permit # IW-000333-2017/2018

Location Safety-Kleen Medley Date 4-12-18 + 4-13-18

Project / Client 180212-1801 / Safety-Kleen

ECT - Keith Morrison

4-12-18

1100 Load T-13, 1115 off to Ft. Lauderdale,

1530 at Hough in Ft. Lauderdale / complete = 4.5 hrs

4-13-18 645 calibration check on meters / Load T-12

708 off for Ice, water + gatorade + Safety-Kleen Medley FL

835 at SK-Medley - Check in at office go over site Specific Health & Safety Plan, weather Sunny 69°F. No wind.

opening wells

Time	Well ID	Depth to Water	order	well lid / cap condition
853	MW-1	3.51	1	good
857	MW-2R	3.95	3	good
855	MW-3	2.99	2	good

901 purging MW-1

x 925 sampling MW-1 / 932 purging MW-3. containerize IDW water.

x 957 sampling MW-3 - containerize Investigation Derived Waste (IDW) purge water

1011 purging MW-2R

x 1033 sampling MW-2R - containerized IDW purge water

Label IDW Containers. / Check out of SK-Medley office

1115 ECT offsite to ECT TAMPA, OFFICE

1620 at ECT office, unload T-13, calibration

1645 Check on meters / complete

x = sample Time

= 10.0 hrs

Keith A Morris

Location Date

Project / Client

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company: ECT
Address: 1408 N. Westshore Blvd.
Suite 115, Tampa, FL 33607
Email: Kmorrison@ectinc.com
Phone: (813) 289-9338 Fax: 813-289-9388
Requested Due Date:

Section B
Required Project Information:

Report To: ~~RICK STEDNICKY~~ Keith Morrison
Copy To:
Purchase Order #: 180212-1801
Project Name: Safety Kleen Facility in Medley
Project #: 180212-1801

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com,
Pace Profile #: 9321 line 1

Regulatory Agency

State / Location: FL

MATRIX / CODE:
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Other OT
Tissue TS

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START Sample TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Trip BLANK	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Water	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/	FL PRO MS/MSD					Residual Chlorine (Y/N)
1	Trip Blank	WT		~~4-13-18~~	—	—	—	—	2				X						x											
2	MW-2R -041318	WT		4-13-18	1033	4-13-18	1049	25	8	X	X		X							x	x	x	x	X	X					
3	MW-1 -041318	WT		4-13-18	925	4-13-19	928	22.7	1			X											x							
4	MW-3 -041318	WT		4-13-18	957	4-13-18	1000	24.0	1			X											x							
5	0																													
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Requested Analysis Filtered (Y/N)

As required by Industrial Waste Annual operating permit number IW-000333-2017/2018

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Empty Containers		3/26/18	0835	Keith F Morrison / ECT	3/26/18	1400	
	Keith F Morrison / ECT	4/13/18	1655	for Pace	4-13-18	1700	
	for Pace	4-13-18					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F Morrison / ECT
SIGNATURE of SAMPLER: Keith F M
DATE Signed: 4-13-18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.	SITE LOCATION: 8755 NW 95th Street, Medley, FL	
WELL NO: MW-2R	SAMPLE ID: MW-2R041318	DATE: 4/13/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ¼-OD 1/8-ID	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.95	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.4 feet – 3.95 feet) X 0.16 gallons/foot = 1.19 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	PURGING INITIATED AT: 1011	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 1.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/m or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1026	1.2	1.2	0.08	4.19	7.34	25.65	522	0.07	6.04	Clear	Slight organic	-272
1029	0.24	1.44	↓	4.19	7.32	25.55	521	0.07	5.22	"	"	-267
1032	0.24	1.68		4.19	7.32	25.51	521	0.07	4.56	"	"	-263
							KFM					

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Monson/ECT	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1033	SAMPLING ENDED AT: 1049
PUMP OR TUBING DEPTH IN WELL (feet): 5.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [✓ N] Filtration Equipment Type:	FILTER SIZE: ____ μm
FIELD DECONTAMINATION: PUMP Y [✓ N]	TUBING Y [✓ N] (replaced)	DUPLICATE: Y [✓ N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-2R-041318	3	CG	40 ml	HCl+ Ice	NONE	<2	8260-Volatile Organic Compounds by EPA Method 8260	APP	<100
	2	AG	250 ml	Ice	NONE	--	8270-Semi-Volatile Organic Compounds by EPA Method 8270	APP	At purge rate
	1	PE	250 ml	HNO3 + Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate
	2	AG	100 ml	H2SO4 + Ice	NONE	<2	TRPHs by FL-PRO Method	APP	At purge rate

REMARKS: $Q = \frac{0.13\text{ gal}}{97\text{ sec}} \times \frac{60\text{ sec}}{1\text{ min}} = 0.08$ gpm

Extra Bottles/Lab QA/QC samples collected
* Note Some suspended solids in sample bottles
Pump out bottom of well after sampling

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

15

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-1

SAMPLE ID: MW-1-041318

DATE: 4/13/18

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 3.51

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.2 feet – 3.51 feet) X 0.16 gallons/foot = 1.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

PURGING INITIATED AT: 901

PURGING ENDED AT: 925

TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
918	≈1.4	≈1.4	0.08	3.65	7.29	22.08	533	0.10	0.47	Clear	slight organic	-246
921	≈0.25	≈1.65	↓	3.65	7.29	22.12	534	0.09	0.51	"	"	-242
924	≈0.25	≈1.9	↓	3.65	7.28	22.16	532	0.08	0.50	"	"	-244

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F Morrison / ECT

SAMPLER(S) SIGNATURE(S): Keith F Morrison

SAMPLING INITIATED AT: 925

SAMPLING ENDED AT: 928

PUMP OR TUBING DEPTH IN WELL (feet): 7.0

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N] FILTER SIZE: ____ µm
Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1-041318	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate

REMARKS: $Q = \frac{0.13\ gal}{97\ sec} + \frac{60\ sec}{1\ min} = 0.08\ gpm$

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

17

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.
SITE LOCATION: 8755 NW 95th Street, Medley, FL
WELL NO: MW-3
SAMPLE ID: MW-3-041318
DATE: 4/13/18

PURGING DATA

WELL DIAMETER (inches): 2
TUBING DIAMETER (inches): 1/8-ID ¼-OD
WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet
STATIC DEPTH TO WATER (feet): 2.99
PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.6 feet – 2.99 feet) X 0.16 gallons/foot = 1.39 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0
PURGING INITIATED AT: 932
PURGING ENDED AT: 956
TOTAL VOLUME PURGED (gallons): ≈2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
950	1.44	1.44	0.08	3.20	7.27	23.98	510	0.06	1.74	Clear	Slight organic	-249
953	0.24	1.68	↓	3.20	7.26	23.94	510	0.05	1.54	"	"	-253
956	0.24	1.92	↓	3.20	7.27	23.96	510	0.04	1.41	"	"	-255

KFM

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/ECT
SAMPLER(S) SIGNATURE(S): Keith F. Morr
SAMPLING INITIATED AT: 957
SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 7.0
TUBING MATERIAL CODE: HDPE
FIELD-FILTERED: Y [✓ N]
FILTER SIZE: ____ μm
Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)
DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3-041318	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate

KFM

REMARKS:

$Q = \frac{0.13\,gal}{97\,sec} \times \frac{60\,sec}{1\,min} = 0.08\ gpm$

* some suspended organic particulates came into sample bottle; pump out bottom of well after sampling.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

18

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Safety Kleen Medley
2018 Annual Groundwater Monitoring Event

Instrument Calibration and Field Verification Log

Instrument Make: InSitu / YSI
Model: SmarTroll / 556 MPS
Identification: SN# 02C0709 AA
Sampler's Name / Signature: Keith F. Morrison / Keith F Morrison
Date: (mm/dd/yy) 4/13/18

Procedure Type: ICV, CCV, Cal	[✓ icv], ccv, cal	icv, [✓ ccv], cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal
Standard Values / Time	645	1620							
pH 4.01 S.U.	4.04	4.04							
pH 7.00 S.U.	7.02	7.03							
pH 10.00 S.U.	9.98	9.95							
Within 0.2 S.U ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KM	KM							
Conductivity 500 µS/cm Cal	502	503							
Conductivity 1000 µS/cm Ver	992	989							
Within 5% ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KM	KM							
Temperature During D.O.	22 °C	24 °C	°C	°C	°C	°C	°C	°C	°C
D.O. mg/L @ Saturation (%)	8.7(99.8%)	8.4(99.6%)							
Within 0.3 mg/L ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KM	KM							
Temperature During ORP	22 °C	24 °C	°C	°C	°C	°C	°C	°C	°C
ORP in mV	235	233							
Within 10 mV ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KM	KM							

Calibration Solutions	Manufacturer	Lot Number	Expiration Date
pH 4.01 S.U.	Exaxol	180214A	02/2019
pH 7.00 S.U.	Exaxol	170802A	02/2019
pH 10.00 S.U.	Exaxol	170222B	09/2018
Conductivity 500 µS/cm Cal	Exaxol	180214C	02/2019
Conductivity 1000 µS/cm Ver	Exaxol	180214B	02/2019
ORP: mV@°C per mfr. specs.		15L100270	07/24/2018

Notes
Cal = Calibration
ICV = Initial Calibration Verification
CCV = Continued Calibration Verification

This form meets or exceeds the requirements of FDEP Form FD 9000-8

P:\A&RDEPT\QA\YSI calibration.xls

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HACH 2100Q **INSTRUMENT #** SN# 16110C053546

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER ________

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Safety-Kleen medley

Standard A 10 NTUS Lot# A6348 / Cat# 2961801 | Standard D: 800 NTUS / Lot# A6355 Cat# 266501

Standard B 20 NTUS Lot# A6351 / Lot# 2684801

Standard C 100 NTUS Lot# A6355 / Cat N. 2684901

2018 Annual Groundwater Monitoring Event

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/13/18	650	A	10.0 NTUS	10.2	±10%	Yes	INIT	KPM
	651	B	20.0 "	19.9	±8%	Yes	INIT	KPM
	652	C	100 "	99.8	±6.5%	Yes	INIT	KPM
	653	D	800 "	892	±5%	Yes	INIT	KPM
	1621	A	10 "	10.1	±10%	Yes	Cont	KPM
	1622	B	20 "	19.9	±8%	Yes	Cont	KPM
	1623	C	100 "	98.7	±6.5%	Yes	Cont	KPM
	1624	D	800 "	894	±5%	Yes	Cont	KPM

ATTACHMENT B

LABORATORY REPORTS

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

May 10, 2018

Keith Morrison
Environmental Consulting & Techlology
1408 North Westshore Bllvd
Suite 115
Tampa, FL 33607

RE: Project: Safety Kleen Facility
Pace Project No.: 35386065

Dear Keith Morrison:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

This report has been revised to include missing results for FL-PRO. This replaces the report submitted on 4/26/2018.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Pat Ines, Environmental Consulting & Technology

CERTIFICATIONS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

SAMPLE SUMMARY

Project: Safety Kleen Facility
Pace Project No.: 35386065

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35386065001	**MW-2R-041318**	Water	04/13/18 10:49	04/13/18 18:25
35386065002	**MW-1-041318**	Water	04/13/18 09:28	04/13/18 18:25
35386065003	**MW-3-041318**	Water	04/13/18 10:00	04/13/18 18:25
35386065004	**Trip Blank**	Water	04/13/18 09:28	04/13/18 18:25

SAMPLE ANALYTE COUNT

Project: Safety Kleen Facility
Pace Project No.: 35386065

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35386065001	**MW-2R-041318**	FL-PRO	BP2	3
		EPA 200.8	CRT	4
		EPA 8270 by SIM	CB1	20
		EPA 8260	SK1	57
35386065002	**MW-1-041318**	EPA 200.8	CRT	4
35386065003	**MW-3-041318**	EPA 200.8	KPP	4
35386065004	**Trip Blank**	EPA 8260	SK1	57

ANALYTICAL RESULTS

Project:	Safety Kleen Facility
Pace Project No.:	35386065

Sample: MW-2R-041318 **Lab ID: 35386065001** Collected: 04/13/18 10:49 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.80 U**	mg/L	1.0	0.80	1	04/18/18 22:40	04/20/18 03:20		
Surrogates									
o-Terphenyl (S)	68	%	82-142		1	04/18/18 22:40	04/20/18 03:20	84-15-1	J(S1), P2
N-Pentatriacontane (S)	85	%	42-159		1	04/18/18 22:40	04/20/18 03:20	630-07-09	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/16/18 09:20	04/16/18 15:09	7440-43-9	
Chromium	**0.62 I**	ug/L	1.0	0.50	1	04/16/18 09:20	04/16/18 15:09	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	04/16/18 09:20	04/16/18 15:09	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	04/16/18 09:20	04/16/18 15:09	7440-22-4	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.013 U**	ug/L	0.50	0.013	1	04/18/18 08:52	04/20/18 01:37	83-32-9	
Acenaphthylene	**0.012 U**	ug/L	0.50	0.012	1	04/18/18 08:52	04/20/18 01:37	208-96-8	
Anthracene	**0.012 U**	ug/L	0.50	0.012	1	04/18/18 08:52	04/20/18 01:37	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	04/18/18 08:52	04/20/18 01:37	56-55-3	J(L1)
Benzo(a)pyrene	**0.020 U**	ug/L	0.10	0.020	1	04/18/18 08:52	04/20/18 01:37	50-32-8	J(L1)
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	04/18/18 08:52	04/20/18 01:37	205-99-2	
Benzo(g,h,i)perylene	**0.042 U**	ug/L	0.50	0.042	1	04/18/18 08:52	04/20/18 01:37	191-24-2	
Benzo(k)fluoranthene	**0.023 U**	ug/L	0.50	0.023	1	04/18/18 08:52	04/20/18 01:37	207-08-9	J(L1)
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	04/18/18 08:52	04/20/18 01:37	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	04/18/18 08:52	04/20/18 01:37	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	04/18/18 08:52	04/20/18 01:37	206-44-0	
Fluorene	**0.016 U**	ug/L	0.50	0.016	1	04/18/18 08:52	04/20/18 01:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	04/18/18 08:52	04/20/18 01:37	193-39-5	
1-Methylnaphthalene	**0.053 I**	ug/L	2.0	0.032	1	04/18/18 08:52	04/20/18 01:37	90-12-0	
2-Methylnaphthalene	**0.11 U**	ug/L	2.0	0.11	1	04/18/18 08:52	04/20/18 01:37	91-57-6	
Naphthalene	**0.078 I**	ug/L	2.0	0.048	1	04/18/18 08:52	04/20/18 01:37	91-20-3	
Phenanthrene	**0.018 U**	ug/L	0.50	0.018	1	04/18/18 08:52	04/20/18 01:37	85-01-8	
Pyrene	**0.019 U**	ug/L	0.50	0.019	1	04/18/18 08:52	04/20/18 01:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	33-101		1	04/18/18 08:52	04/20/18 01:37	321-60-8	
p-Terphenyl-d14 (S)	81	%	38-115		1	04/18/18 08:52	04/20/18 01:37	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		04/18/18 02:04	67-64-1	
Acetonitrile	**5.0 U**	ug/L	40.0	5.0	1		04/18/18 02:04	75-05-8	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		04/18/18 02:04	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		04/18/18 02:04	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		04/18/18 02:04	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 02:04	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 02:04	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		04/18/18 02:04	56-23-5	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: MW-2R-041318 **Lab ID: 35386065001** Collected: 04/13/18 10:49 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		04/18/18 02:04	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		04/18/18 02:04	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		04/18/18 02:04	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		04/18/18 02:04	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		04/18/18 02:04	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 02:04	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	107-06-2	
1,2-Dichloroethene (Total)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	540-59-0	N2
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		04/18/18 02:04	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		04/18/18 02:04	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 02:04	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		04/18/18 02:04	74-88-4	
Isopropylbenzene (Cumene)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	98-82-8	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		04/18/18 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 02:04	108-10-1	
Methyl-tert-butyl ether	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	1634-04-4	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		04/18/18 02:04	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	75-69-4	
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		04/18/18 02:04	96-18-4	
1,2,4-Trimethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	95-63-6	
1,3,5-Trimethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	108-67-8	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		04/18/18 02:04	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		04/18/18 02:04	1330-20-7	
m&p-Xylene	**1.0 U**	ug/L	2.0	1.0	1		04/18/18 02:04	179601-23-1	
o-Xylene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 02:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	89-111		1		04/18/18 02:04	460-00-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: MW-2R-041318 **Lab ID: 35386065001** Collected: 04/13/18 10:49 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		04/18/18 02:04	17060-07-0	
Toluene-d8 (S)	99	%	89-112		1		04/18/18 02:04	2037-26-5	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: MW-1-041318 **Lab ID: 35386065002** Collected: 04/13/18 09:28 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/16/18 09:20	04/16/18 15:11	7440-43-9	
Chromium	**0.52 I**	ug/L	1.0	0.50	1	04/16/18 09:20	04/16/18 15:11	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	04/16/18 09:20	04/16/18 15:11	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	04/16/18 09:20	04/16/18 15:11	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: MW-3-041318 **Lab ID: 35386065003** Collected: 04/13/18 10:00 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/17/18 01:34	04/18/18 09:46	7440-43-9	
Chromium	**0.68 I**	ug/L	1.0	0.50	1	04/17/18 01:34	04/18/18 09:46	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	04/17/18 01:34	04/18/18 09:46	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	04/17/18 01:34	04/18/18 09:46	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: Trip Blank **Lab ID: 35386065004** Collected: 04/13/18 09:28 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**10.0 U**	ug/L	20.0	10.0	1		04/18/18 01:16	67-64-1	
Acetonitrile	**5.0 U**	ug/L	40.0	5.0	1		04/18/18 01:16	75-05-8	
Benzene	**0.10 U**	ug/L	1.0	0.10	1		04/18/18 01:16	71-43-2	
Bromochloromethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	74-97-5	
Bromodichloromethane	**0.27 U**	ug/L	0.60	0.27	1		04/18/18 01:16	75-27-4	
Bromoform	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	75-25-2	
Bromomethane	**0.50 U**	ug/L	5.0	0.50	1		04/18/18 01:16	74-83-9	
2-Butanone (MEK)	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 01:16	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 01:16	75-15-0	
Carbon tetrachloride	**0.50 U**	ug/L	3.0	0.50	1		04/18/18 01:16	56-23-5	
Chlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	108-90-7	
Chloroethane	**0.50 U**	ug/L	10.0	0.50	1		04/18/18 01:16	75-00-3	
Chloroform	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	67-66-3	
Chloromethane	**0.62 U**	ug/L	1.0	0.62	1		04/18/18 01:16	74-87-3	
1,2-Dibromo-3-chloropropane	**1.0 U**	ug/L	5.0	1.0	1		04/18/18 01:16	96-12-8	
Dibromochloromethane	**0.26 U**	ug/L	2.0	0.26	1		04/18/18 01:16	124-48-1	
1,2-Dibromoethane (EDB)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	106-93-4	
Dibromomethane	**0.50 U**	ug/L	2.0	0.50	1		04/18/18 01:16	74-95-3	
1,2-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	95-50-1	
1,4-Dichlorobenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 01:16	110-57-6	
1,1-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	75-34-3	
1,2-Dichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	107-06-2	
1,2-Dichloroethene (Total)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	540-59-0	N2
1,1-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	75-35-4	
cis-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	156-59-2	
trans-1,2-Dichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	156-60-5	
1,2-Dichloropropane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	78-87-5	
cis-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		04/18/18 01:16	10061-01-5	
trans-1,3-Dichloropropene	**0.25 U**	ug/L	0.50	0.25	1		04/18/18 01:16	10061-02-6	
Ethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	100-41-4	
2-Hexanone	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 01:16	591-78-6	
Iodomethane	**0.50 U**	ug/L	10.0	0.50	1		04/18/18 01:16	74-88-4	
Isopropylbenzene (Cumene)	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	98-82-8	
Methylene Chloride	**2.5 U**	ug/L	5.0	2.5	1		04/18/18 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.0 U**	ug/L	10.0	5.0	1		04/18/18 01:16	108-10-1	
Methyl-tert-butyl ether	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	1634-04-4	
Styrene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	100-42-5	
1,1,1,2-Tetrachloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	**0.12 U**	ug/L	0.50	0.12	1		04/18/18 01:16	79-34-5	
Tetrachloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	127-18-4	
Toluene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	108-88-3	
1,1,1-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	71-55-6	
1,1,2-Trichloroethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	79-00-5	
Trichloroethene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	79-01-6	
Trichlorofluoromethane	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	75-69-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35386065

Sample: Trip Blank **Lab ID: 35386065004** Collected: 04/13/18 09:28 Received: 04/13/18 18:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichloropropane	**0.59 U**	ug/L	2.0	0.59	1		04/18/18 01:16	96-18-4	
1,2,4-Trimethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	95-63-6	
1,3,5-Trimethylbenzene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	108-67-8	
Vinyl acetate	**1.0 U**	ug/L	10.0	1.0	1		04/18/18 01:16	108-05-4	
Vinyl chloride	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	75-01-4	
Xylene (Total)	**1.5 U**	ug/L	3.0	1.5	1		04/18/18 01:16	1330-20-7	
m&p-Xylene	**1.0 U**	ug/L	2.0	1.0	1		04/18/18 01:16	179601-23-1	
o-Xylene	**0.50 U**	ug/L	1.0	0.50	1		04/18/18 01:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	89-111		1		04/18/18 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-135		1		04/18/18 01:16	17060-07-0	
Toluene-d8 (S)	97	%	89-112		1		04/18/18 01:16	2037-26-5	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

QC Batch: 440341 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 35386065001, 35386065002

METHOD BLANK: 2390467 Matrix: Water
Associated Lab Samples: 35386065001, 35386065002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	04/16/18 14:14	
Chromium	ug/L	0.50 U	1.0	0.50	04/16/18 14:14	
Lead	ug/L	0.50 U	1.0	0.50	04/16/18 14:14	
Silver	ug/L	0.050 U	0.10	0.050	04/16/18 14:14	

LABORATORY CONTROL SAMPLE: 2390468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	5.1	103	85-115	
Chromium	ug/L	50	53.9	108	85-115	
Lead	ug/L	50	50.0	100	85-115	
Silver	ug/L	5	5.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390469 2390470

Parameter	Units	35384811001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	4.9	5.1	98	101	70-130	3	20	
Chromium	ug/L	0.50 U	50	50	52.2	52.6	104	105	70-130	1	20	
Lead	ug/L	0.50 U	50	50	49.2	49.3	98	98	70-130	0	20	
Silver	ug/L	0.050 U	5	5	5.0	5.1	101	103	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390471 2390472

Parameter	Units	35385374003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.000050 U mg/L	5	5	4.9	5.1	98	103	70-130	4	20	
Chromium	ug/L	0.0032 mg/L	50	50	54.1	56.0	102	106	70-130	3	20	
Lead	ug/L	0.00050 U mg/L	50	50	48.3	50.3	96	100	70-130	4	20	
Silver	ug/L	0.050 U	5	5	5.0	5.2	101	104	70-130	3	20	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

QC Batch: 440594 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 MET
Associated Lab Samples: 35386065003

METHOD BLANK: 2391628 Matrix: Water
Associated Lab Samples: 35386065003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	04/17/18 11:22	
Chromium	ug/L	0.50 U	1.0	0.50	04/17/18 11:22	
Lead	ug/L	0.50 U	1.0	0.50	04/17/18 11:22	
Silver	ug/L	0.050 U	0.10	0.050	04/17/18 11:22	

LABORATORY CONTROL SAMPLE: 2391629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	4.9	98	85-115	
Chromium	ug/L	50	49.0	98	85-115	
Lead	ug/L	50	49.5	99	85-115	
Silver	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2391630 2391631

Parameter	Units	35385207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.000050 U mg/L	5	5	4.9	4.9	98	98	70-130	0	20	
Chromium	ug/L	0.00050 U mg/L	50	50	50.2	50.0	100	99	70-130	0	20	
Lead	ug/L	0.00050 U mg/L	50	50	49.0	48.4	98	97	70-130	1	20	
Silver	ug/L	0.000050 U mg/L	5	5	4.7	4.7	94	94	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2391632 2391633

Parameter	Units	35385999002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	5.0	5.0	99	99	70-130	0	20	
Chromium	ug/L	0.50 U	50	50	50.2	50.9	100	101	70-130	1	20	
Lead	ug/L	152	50	50	200	202	96	100	70-130	1	20	
Silver	ug/L	0.050 U	5	5	4.9	4.9	98	98	70-130	0	20	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

QC Batch: 440900
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 35386065001, 35386065004

METHOD BLANK: 2393177
Matrix: Water
Associated Lab Samples: 35386065001, 35386065004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	04/18/18 00:04	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	04/18/18 00:04	
1,2,4-Trimethylbenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	5.0	1.0	04/18/18 00:04	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,2-Dichloroethene (Total)	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	N2
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,3,5-Trimethylbenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	04/18/18 00:04	
2-Hexanone	ug/L	5.0 U	10.0	5.0	04/18/18 00:04	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	04/18/18 00:04	
Acetone	ug/L	10.0 U	20.0	10.0	04/18/18 00:04	
Acetonitrile	ug/L	5.0 U	40.0	5.0	04/18/18 00:04	
Benzene	ug/L	0.10 U	1.0	0.10	04/18/18 00:04	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	04/18/18 00:04	
Bromoform	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Bromomethane	ug/L	0.50 U	5.0	0.50	04/18/18 00:04	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	04/18/18 00:04	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	04/18/18 00:04	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Chloroethane	ug/L	0.50 U	10.0	0.50	04/18/18 00:04	
Chloroform	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Chloromethane	ug/L	0.62 U	1.0	0.62	04/18/18 00:04	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	04/18/18 00:04	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	04/18/18 00:04	
Dibromomethane	ug/L	0.50 U	2.0	0.50	04/18/18 00:04	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Iodomethane	ug/L	0.50 U	10.0	0.50	04/18/18 00:04	
Isopropylbenzene (Cumene)	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
m&p-Xylene	ug/L	1.0 U	2.0	1.0	04/18/18 00:04	
Methyl-tert-butyl ether	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

METHOD BLANK: 2393177 Matrix: Water
Associated Lab Samples: 35386065001, 35386065004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	2.5 U	5.0	2.5	04/18/18 00:04	
o-Xylene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Styrene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Toluene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	04/18/18 00:04	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	04/18/18 00:04	
Trichloroethene	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	04/18/18 00:04	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	04/18/18 00:04	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	04/18/18 00:04	
1,2-Dichloroethane-d4 (S)	%	97	75-135		04/18/18 00:04	
4-Bromofluorobenzene (S)	%	96	89-111		04/18/18 00:04	
Toluene-d8 (S)	%	99	89-112		04/18/18 00:04	

LABORATORY CONTROL SAMPLE: 2393178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	99	70-130	
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1-Dichloroethane	ug/L	20	21.7	108	70-130	
1,1-Dichloroethene	ug/L	20	22.6	113	65-134	
1,2,3-Trichloropropane	ug/L	20	18.5	93	65-135	
1,2,4-Trimethylbenzene	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	89	62-133	
1,2-Dibromoethane (EDB)	ug/L	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	106	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloroethene (Total)	ug/L	40	42.7	107	70-130	N2
1,2-Dichloropropane	ug/L	20	21.5	107	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	100	70-130	
2-Butanone (MEK)	ug/L	40	35.7	89	61-129	
2-Hexanone	ug/L	40	39.6	99	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.1	90	70-130	
Acetone	ug/L	40	41.6	104	44-155	
Acetonitrile	ug/L	200	273	136	46-153	
Benzene	ug/L	20	22.2	111	70-130	
Bromochloromethane	ug/L	20	20.6	103	70-130	
Bromodichloromethane	ug/L	20	19.5	98	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

LABORATORY CONTROL SAMPLE: 2393178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.2	86	62-129	
Bromomethane	ug/L	20	16.9	84	10-179	
Carbon disulfide	ug/L	20	20.5	102	40-156	
Carbon tetrachloride	ug/L	20	18.7	94	66-127	
Chlorobenzene	ug/L	20	20.7	103	70-130	
Chloroethane	ug/L	20	23.2	116	57-142	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	19.2	96	45-150	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.3	92	70-130	
Dibromochloromethane	ug/L	20	16.6	83	70-130	
Dibromomethane	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	21.3	106	70-130	
Iodomethane	ug/L	40	59.9	150	21-150	
Isopropylbenzene (Cumene)	ug/L	20	19.7	98	70-130	
m&p-Xylene	ug/L	40	44.0	110	70-130	
Methyl-tert-butyl ether	ug/L	20	20.4	102	64-133	
Methylene Chloride	ug/L	20	22.0	110	65-127	
o-Xylene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	21.4	107	48-155	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.7	109	68-126	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.9	75	46-138	
Trichloroethene	ug/L	20	20.9	104	69-129	
Trichlorofluoromethane	ug/L	20	18.6	93	60-144	
Vinyl acetate	ug/L	20	19.3	97	70-130	
Vinyl chloride	ug/L	20	20.7	104	67-136	
Xylene (Total)	ug/L	60	63.3	105	70-130	
1,2-Dichloroethane-d4 (S)	%			93	75-135	
4-Bromofluorobenzene (S)	%			101	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2393715

Parameter	Units	35386361002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.9	99	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.8	89	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	21.7	109	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	21.4	106	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.8	84	65-135	
1,2,4-Trimethylbenzene	ug/L	0.50 U	20	18.2	91	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

MATRIX SPIKE SAMPLE: 2393715

Parameter	Units	35386361002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	20	16.2	81	62-133	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.4	97	70-130	
1,2-Dichloroethene (Total)	ug/L	0.50 U	40	41.4	103	70-130	N2
1,2-Dichloropropane	ug/L	0.50 U	20	19.4	97	70-130	
1,3,5-Trimethylbenzene	ug/L	0.50 U	20	18.8	94	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	34.3	86	61-129	
2-Hexanone	ug/L	5.0 U	40	31.9	80	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.7	79	70-130	
Acetone	ug/L	10.0 U	40	38.7	93	44-155	
Acetonitrile	ug/L	5.0 U	200	205	102	46-153	
Benzene	ug/L	0.10 U	20	20.6	103	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.7	103	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.9	100	70-130	
Bromoform	ug/L	0.50 U	20	16.4	82	62-129	
Bromomethane	ug/L	0.50 U	20	17.1	85	10-179	
Carbon disulfide	ug/L	5.0 U	20	21.5	106	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	21.4	107	66-127	
Chlorobenzene	ug/L	0.50 U	20	20.1	101	70-130	
Chloroethane	ug/L	0.50 U	20	21.3	107	57-142	
Chloroform	ug/L	0.50 U	20	20.5	103	70-130	
Chloromethane	ug/L	0.62 U	20	16.1	81	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	20.7	104	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	14.4	72	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.9	79	70-130	
Dibromomethane	ug/L	0.50 U	20	19.4	97	70-130	
Ethylbenzene	ug/L	0.50 U	20	21.0	105	70-130	
Iodomethane	ug/L	0.50 U	40	31.5	79	21-150	
Isopropylbenzene (Cumene)	ug/L	0.50 U	20	18.9	94	70-130	
m&p-Xylene	ug/L	1.0 U	40	42.7	107	70-130	
Methyl-tert-butyl ether	ug/L	0.50 U	20	18.4	92	64-133	
Methylene Chloride	ug/L	2.5 U	20	20.4	101	65-127	
o-Xylene	ug/L	0.50 U	20	18.2	91	70-130	
Styrene	ug/L	0.50 U	20	18.8	94	70-130	
Tetrachloroethene	ug/L	0.50 U	20	21.4	107	48-155	
Toluene	ug/L	0.50 U	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	20.7	103	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.9	74	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	13.2	66	46-138	
Trichloroethene	ug/L	0.50 U	20	21.1	106	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	20.6	103	60-144	
Vinyl acetate	ug/L	1.0 U	20	15.7	79	70-130	
Vinyl chloride	ug/L	0.50 U	20	18.9	95	67-136	
Xylene (Total)	ug/L	1.5 U	60	60.8	101	70-130	
1,2-Dichloroethane-d4 (S)	%				103	75-135	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

MATRIX SPIKE SAMPLE: 2393715

Parameter	Units	35386361002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%				101	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2393714

Parameter	Units	35386065001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2,4-Trimethylbenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.0 U	1.0 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethene (Total)	ug/L	0.50 U	0.50 U		40	N2
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,3,5-Trimethylbenzene	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acetonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Isopropylbenzene (Cumene)	ug/L	0.50 U	0.50 U		40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

SAMPLE DUPLICATE: 2393714

Parameter	Units	35386065001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	1.0 U	1.0 U		40	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
o-Xylene	ug/L	0.50 U	0.50 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	107	107	0	40	
4-Bromofluorobenzene (S)	%	98	97	0	40	
Toluene-d8 (S)	%	99	99	0	40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

QC Batch: 440828
Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510
Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35386065001

METHOD BLANK: 2392589
Matrix: Water
Associated Lab Samples: 35386065001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.032 U	2.0	0.032	04/19/18 16:52	
2-Methylnaphthalene	ug/L	0.11 U	2.0	0.11	04/19/18 16:52	
Acenaphthene	ug/L	0.013 U	0.50	0.013	04/19/18 16:52	
Acenaphthylene	ug/L	0.012 U	0.50	0.012	04/19/18 16:52	
Anthracene	ug/L	0.012 U	0.50	0.012	04/19/18 16:52	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	04/19/18 16:52	
Benzo(a)pyrene	ug/L	0.020 U	0.10	0.020	04/19/18 16:52	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	04/19/18 16:52	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.50	0.042	04/19/18 16:52	
Benzo(k)fluoranthene	ug/L	0.023 U	0.50	0.023	04/19/18 16:52	
Chrysene	ug/L	0.026 U	0.50	0.026	04/19/18 16:52	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	04/19/18 16:52	
Fluoranthene	ug/L	0.018 U	0.50	0.018	04/19/18 16:52	
Fluorene	ug/L	0.016 U	0.50	0.016	04/19/18 16:52	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	04/19/18 16:52	
Naphthalene	ug/L	0.048 U	2.0	0.048	04/19/18 16:52	
Phenanthrene	ug/L	0.018 U	0.50	0.018	04/19/18 16:52	
Pyrene	ug/L	0.019 U	0.50	0.019	04/19/18 16:52	
2-Fluorobiphenyl (S)	%	84	33-101		04/19/18 16:52	
p-Terphenyl-d14 (S)	%	95	38-115		04/19/18 16:52	

LABORATORY CONTROL SAMPLE: 2392590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	4.7	93	33-118	
2-Methylnaphthalene	ug/L	5	4.3	87	34-104	
Acenaphthene	ug/L	5	5.0	99	38-109	
Acenaphthylene	ug/L	5	4.5	90	31-115	
Anthracene	ug/L	5	5.2	105	38-111	
Benzo(a)anthracene	ug/L	5	6.0	120	36-110	J(L1)
Benzo(a)pyrene	ug/L	5	5.5	110	27-107	J(L1)
Benzo(b)fluoranthene	ug/L	5	5.6	112	32-119	
Benzo(g,h,i)perylene	ug/L	5	4.9	99	10-109	
Benzo(k)fluoranthene	ug/L	5	6.2	124	28-118	J(L1)
Chrysene	ug/L	5	6.5	130	33-130	
Dibenz(a,h)anthracene	ug/L	5	5.2	104	10-104	
Fluoranthene	ug/L	5	5.2	104	45-115	
Fluorene	ug/L	5	5.0	101	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.9	98	10-104	
Naphthalene	ug/L	5	4.3	86	38-100	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

LABORATORY CONTROL SAMPLE: 2392590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	5.3	106	41-106	
Pyrene	ug/L	5	5.2	104	45-115	
2-Fluorobiphenyl (S)	%			81	33-101	
p-Terphenyl-d14 (S)	%			91	38-115	

MATRIX SPIKE SAMPLE: 2393609

Parameter	Units	35386029003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	0.41 I	5	4.9	91	33-118	
2-Methylnaphthalene	ug/L	0.15 I	5	4.3	84	34-104	
Acenaphthene	ug/L	0.038 I	5	4.8	94	38-109	
Acenaphthylene	ug/L	0.012 U	5	4.3	87	31-115	
Anthracene	ug/L	0.012 U	5	5.1	102	38-111	
Benzo(a)anthracene	ug/L	0.055 U	5	5.9	117	36-110	J(M0)
Benzo(a)pyrene	ug/L	0.020 U	5	5.3	106	27-107	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5.3	106	32-119	
Benzo(g,h,i)perylene	ug/L	0.042 U	5	5.5	109	10-109	
Benzo(k)fluoranthene	ug/L	0.023 U	5	5.6	111	28-118	
Chrysene	ug/L	0.026 U	5	6.1	121	33-130	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5.8	116	10-104	J(M1)
Fluoranthene	ug/L	0.018 U	5	5.3	105	45-115	
Fluorene	ug/L	0.016 U	5	4.9	98	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5.6	112	10-104	J(M1)
Naphthalene	ug/L	0.45 I	5	4.5	80	38-100	
Phenanthrene	ug/L	0.035 I	5	5.1	102	41-106	
Pyrene	ug/L	0.019 U	5	5.2	104	45-115	
2-Fluorobiphenyl (S)	%				78	33-101	
p-Terphenyl-d14 (S)	%				92	38-115	

SAMPLE DUPLICATE: 2393547

Parameter	Units	35386029002 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	0.032 U	0.032 U		40	
2-Methylnaphthalene	ug/L	0.11 U	0.11 U		40	
Acenaphthene	ug/L	0.013 U	0.013 U		40	
Acenaphthylene	ug/L	0.012 U	0.012 U		40	
Anthracene	ug/L	0.012 U	0.012 U		40	
Benzo(a)anthracene	ug/L	0.055 U	0.055 U		40	
Benzo(a)pyrene	ug/L	0.020 U	0.020 U		40	
Benzo(b)fluoranthene	ug/L	0.027 U	0.027 U		40	
Benzo(g,h,i)perylene	ug/L	0.042 U	0.042 U		40	
Benzo(k)fluoranthene	ug/L	0.023 U	0.023 U		40	
Chrysene	ug/L	0.026 U	0.026 U		40	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.13 U		40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

SAMPLE DUPLICATE: 2393547

Parameter	Units	35386029002 Result	Dup Result	RPD	Max RPD	Qualifiers
Fluoranthene	ug/L	0.018 U	0.018 U		40	
Fluorene	ug/L	0.016 U	0.016 U		40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.12 U		40	
Naphthalene	ug/L	0.053 I	0.14 I		40	
Phenanthrene	ug/L	0.018 U	0.018 U		40	
Pyrene	ug/L	0.019 U	0.019 U		40	
2-Fluorobiphenyl (S)	%	74	68	9		
p-Terphenyl-d14 (S)	%	84	79	5		

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35386065

QC Batch: 441139
QC Batch Method: EPA 3510
Associated Lab Samples: 35386065001
Analysis Method: FL-PRO
Analysis Description: FL-PRO Water Low Volume

METHOD BLANK: 2394098
Matrix: Water
Associated Lab Samples: 35386065001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	04/20/18 15:48	P2
N-Pentatriacontane (S)	%	84	42-159		04/20/18 15:48	
o-Terphenyl (S)	%	62	82-142		04/20/18 15:48	J(S0)

LABORATORY CONTROL SAMPLE: 2394099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	4.6	93	55-118	
N-Pentatriacontane (S)	%			113	42-159	
o-Terphenyl (S)	%			92	82-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2394772 2394773

Parameter	Units	35386065001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L	0.80 U	5	5.1	3.4	3.9	64	72	41-101	13	20	
N-Pentatriacontane (S)	%						86	95	42-159			
o-Terphenyl (S)	%						67	79	82-142			J(S5)

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QUALIFIERS

Project:	Safety Kleen Facility
Pace Project No.:	35386065

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(S0)	Estimated Value. Surrogate recovery outside laboratory control limits.
J(S1)	Estimated Value. Surrogate recovery outside laboratory control limits (confirmed by re-analysis).
J(S5)	Estimated Value. Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Safety Kleen Facility
Pace Project No.: 35386065

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35386065001	**MW-2R-041318**	EPA 3510	441139	FL-PRO	441323
35386065001	**MW-2R-041318**	EPA 200.8	440341	EPA 200.8	440468
35386065002	**MW-1-041318**	EPA 200.8	440341	EPA 200.8	440468
35386065003	**MW-3-041318**	EPA 200.8	440594	EPA 200.8	440604
35386065001	**MW-2R-041318**	EPA 3510	440828	EPA 8270 by SIM	441381
35386065001	**MW-2R-041318**	EPA 8260	440900		
35386065004	**Trip Blank**	EPA 8260	440900		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

WO# : 35386065

35386065

Section A
Required Client Information:

Company: ECT
Address: 1408 N. Westshore Blvd.
Suite 115, Tampa, FL 33607
Email: Kmorrison@ectinc.com
Phone: (813) 289-9338 Fax 813-289-9388
Requested Due Date:

Section B
Required Project Information:

Report To: ~~RICK STEBNISKY~~ Keith Morrison
Copy To:
Purchase Order #: 180212-1801
Project Name: Safety Kleen Facility in Medley
Project #: 180212-1801

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com,
Pace Profile #: 9321 line 1

Regulatory Agency

State / Location: FL

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START Sample TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives Unpreserved	Preservatives H2SO4	Preservatives HNO3	Preservatives HCl	Preservatives NaOH	Preservatives Na2S2O3	Preservatives Methanol	Preservatives Other	Analyses Test Y/N	Trip BLANK	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Wate	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/	FL PRO MS/MSD						Residual Chlorine (Y/N)
1	Trip Blank	WT		~~4-13-18~~	—	—	—	—	2				X						x												
2	MW-2R -041318	WT		4-13-18	1033	4-13-18	1049	25.0	14	X	X		X							x	x	x	x	x	X						
3	MW-1 -041318	WT		4-13-18	925	4-13-19	928	22.7	1			X											x								
4	MW-3 -041318	WT		4-13-18	957	4-13-18	1000	24.9	1			X											x								
5	0																														
6																															
7																															
8																															
9																															
10																															
11																															
12																															

As required by Industrial Waste Annual operating permit number IW-000333-2017/2018

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Empty Containers		3/26/18	0835	Keith F Morrison / ECT	3/26/18	1400				
	Keith F Morrison / ECT	4/13/18	1655	Pace	4-13-18	1700	T263			
	Pace	4-13-18	1825	/ Pace	4/13/18	1825	1.3	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison / ECT

SIGNATURE of SAMPLER: Keith F M

DATE Signed: 4-13-19

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#:35386065

Project Manager: PM: LAP Due Date: 04/23/18

Client: CLIENT: 37-ECTTAM

Date and Initials of person:
Examining contents: DS
Label: 4/13/18
Deliver:
pH:

Thermometer Used: T-203 Date: 4/13/18 Time: 1825 Initials: mvc

State of Origin: FL

Cooler #1 Temp.°C 1.3 **(Visual)** 0.0 **(Correction Factor)** 1.3 **(Actual)** ☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C______**(Visual)** ______**(Correction Factor)** ______**(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C______**(Visual)** ______**(Correction Factor)** ______**(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C______**(Visual)** ______**(Correction Factor)** ______**(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C______**(Visual)** ______**(Correction Factor)** ______**(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C______**(Visual)** ______**(Correction Factor)** ______**(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other______

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other______

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # ______

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other______

Samples shorted to lab (If Yes, complete) Shorted Date:______ Shorted Time:______ Qty:______

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☐ Yes ☑ No ☐ N/A	they used start time Not end time
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:______
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑ Yes ☐ No ☐ N/A	Lot #/Trace #:______ Date:______ Time:______ Initials:______
Headspace in VOA Vials? (>6mm):	☐ Yes ☑ No ☐ N/A	
Trip Blank Present:	☑ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted:______ Date/Time:______

Comments/ Resolution (use back for additional comments):______

Project Manager Review:______ Date:______

ANALYTICAL REPORT

April 26, 2018

Pace Analytical - Ormond Beach, FL

Sample Delivery Group:	L986311
Samples Received:	04/17/2018
Project Number:	35386065
Description:	Safety Kleen Facility
Report To:	Lori Palmer 8 E. Tower Circle Ormond Beach, FL 32174

Entire Report Reviewed By: Nancy F. McLain

Nancy McLain
Technical Service Representative

TABLE OF CONTENTS

	Collected by	Collected date/time	Received date/time
MW-2R-041318 L986311-01 GW		04/13/18 10:49	04/17/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1099358	1	04/18/18 23:35	04/20/18 00:31	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1099358	1	04/18/18 23:35	04/25/18 17:41	AO

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy F. McLain

Nancy McLain
Technical Service Representative

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	0.316	U	0.316	1.00	1	04/20/2018 00:31	WG1099358
Acenaphthylene	0.309	U	0.309	1.00	1	04/20/2018 00:31	WG1099358
Aniline	2.43	U	2.43	10.0	1	04/20/2018 00:31	WG1099358
Anthracene	0.291	U	0.291	1.00	1	04/20/2018 00:31	WG1099358
Benzyl alcohol	0.393	U	0.393	10.0	1	04/20/2018 00:31	WG1099358
Benzidine	4.32	U	4.32	10.0	1	04/20/2018 00:31	WG1099358
Benzo(a)anthracene	0.0970	U	0.0970	1.00	1	04/20/2018 00:31	WG1099358
Benzo(b)fluoranthene	0.141	J	0.0890	1.00	1	04/20/2018 00:31	WG1099358
Benzo(k)fluoranthene	0.355	U	0.355	1.00	1	04/20/2018 00:31	WG1099358
Benzo(g,h,i)perylene	0.161	U	0.161	1.00	1	04/20/2018 00:31	WG1099358
Benzo(a)pyrene	0.340	U	0.340	1.00	1	04/20/2018 00:31	WG1099358
Bis(2-chlorethoxy)methane	0.329	U	0.329	10.0	1	04/20/2018 00:31	WG1099358
Bis(2-chloroethyl)ether	1.62	U	1.62	10.0	1	04/20/2018 00:31	WG1099358
Bis(2-chloroisopropyl)ether	0.445	U	0.445	10.0	1	04/20/2018 00:31	WG1099358
4-Bromophenyl-phenylether	0.335	U	0.335	10.0	1	04/20/2018 00:31	WG1099358
Caprolactam	2.59	U	2.59	10.0	1	04/20/2018 00:31	WG1099358
Carbazole	0.260	U	0.260	10.0	1	04/20/2018 00:31	WG1099358
Chrysene	0.332	U	0.332	1.00	1	04/20/2018 00:31	WG1099358
Dibenz(a,h)anthracene	0.279	U	0.279	1.00	1	04/20/2018 00:31	WG1099358
4-Chloroaniline	0.382	U	0.382	10.0	1	04/20/2018 00:31	WG1099358
2-Chloronaphthalene	0.330	U	0.330	1.00	1	04/20/2018 00:31	WG1099358
4-Chlorophenyl-phenylether	0.303	U	0.303	10.0	1	04/20/2018 00:31	WG1099358
3,3-Dichlorobenzidine	2.02	U	2.02	10.0	1	04/20/2018 00:31	WG1099358
2,4-Dinitrotoluene	1.65	U	1.65	10.0	1	04/20/2018 00:31	WG1099358
2,6-Dinitrotoluene	0.279	U	0.279	10.0	1	04/20/2018 00:31	WG1099358
Dibenzofuran	0.338	U	0.338	10.0	1	04/20/2018 00:31	WG1099358
2-Nitroaniline	1.90	U	1.90	10.0	1	04/20/2018 00:31	WG1099358
3-Nitroaniline	0.308	U	0.308	10.0	1	04/20/2018 00:31	WG1099358
4-Nitroaniline	0.349	U	0.349	10.0	1	04/20/2018 00:31	WG1099358
Fluorene	0.323	U	0.323	1.00	1	04/20/2018 00:31	WG1099358
Fluoranthene	0.310	U	0.310	1.00	1	04/20/2018 00:31	WG1099358
Hexachloro-1,3-butadiene	0.329	U	0.329	10.0	1	04/20/2018 00:31	WG1099358
Hexachlorobenzene	0.341	U	0.341	1.00	1	04/20/2018 00:31	WG1099358
Hexachlorocyclopentadiene	2.33	U	2.33	10.0	1	04/20/2018 00:31	WG1099358
Hexachloroethane	0.365	U	0.365	10.0	1	04/20/2018 00:31	WG1099358
Indeno(1,2,3-cd)pyrene	0.279	U	0.279	1.00	1	04/20/2018 00:31	WG1099358
Isophorone	0.272	U	0.272	10.0	1	04/20/2018 00:31	WG1099358
1-Methylnaphthalene	0.332	U	0.332	1.00	1	04/20/2018 00:31	WG1099358
2-Methylnaphthalene	0.311	U	0.311	1.00	1	04/20/2018 00:31	WG1099358
Pyridine	1.37	U	1.37	10.0	1	04/20/2018 00:31	WG1099358
Phenanthrene	0.366	U	0.366	1.00	1	04/20/2018 00:31	WG1099358
Pyrene	0.330	U	0.330	1.00	1	04/20/2018 00:31	WG1099358
Naphthalene	0.372	U	0.372	1.00	1	04/20/2018 00:31	WG1099358
Nitrobenzene	0.367	U	0.367	10.0	1	04/20/2018 00:31	WG1099358
1,2-Dichlorobenzene	3.29	U	3.29	10.0	1	04/20/2018 00:31	WG1099358
1,3-Dichlorobenzene	0.383	U	0.383	10.0	1	04/20/2018 00:31	WG1099358
1,4-Dichlorobenzene	0.401	U	0.401	10.0	1	04/20/2018 00:31	WG1099358
n-Nitrosodimethylamine	1.26	U	1.26	10.0	1	04/20/2018 00:31	WG1099358
n-Nitrosodiphenylamine	0.304	U	0.304	10.0	1	04/20/2018 00:31	WG1099358
n-Nitrosodi-n-propylamine	0.403	U	0.403	10.0	1	04/20/2018 00:31	WG1099358
Benzylbutyl phthalate	0.275	U	0.275	3.00	1	04/20/2018 00:31	WG1099358
Bis(2-ethylhexyl)phthalate	0.741	J	0.709	3.00	1	04/20/2018 00:31	WG1099358
Di-n-butyl phthalate	0.790	J	0.266	3.00	1	04/20/2018 00:31	WG1099358
Diethyl phthalate	0.282	U	0.282	3.00	1	04/20/2018 00:31	WG1099358
Dimethyl phthalate	0.283	U	0.283	3.00	1	04/20/2018 00:31	WG1099358
Di-n-octyl phthalate	0.278	U	0.278	3.00	1	04/20/2018 00:31	WG1099358

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	0.355	U	0.355	10.0	1	04/20/2018 00:31	WG1099358
4-Chloro-3-methylphenol	0.263	U	0.263	10.0	1	04/20/2018 00:31	WG1099358
2-Chlorophenol	0.283	U	0.283	10.0	1	04/20/2018 00:31	WG1099358
2,4-Dichlorophenol	0.284	U	0.284	10.0	1	04/20/2018 00:31	WG1099358
2,4-Dimethylphenol	0.624	U	0.624	10.0	1	04/20/2018 00:31	WG1099358
4,6-Dinitro-2-methylphenol	2.62	U	2.62	10.0	1	04/20/2018 00:31	WG1099358
2,4-Dinitrophenol	3.25	U	3.25	10.0	1	04/20/2018 00:31	WG1099358
2-Methylphenol	0.312	U	0.312	10.0	1	04/20/2018 00:31	WG1099358
3&4-Methyl Phenol	0.266	U	0.266	10.0	1	04/20/2018 00:31	WG1099358
1,2-Diphenylhydrazine	0.318	U	0.318	10.0	1	04/20/2018 00:31	WG1099358
2-Nitrophenol	0.320	U	0.320	10.0	1	04/20/2018 00:31	WG1099358
4-Nitrophenol	2.01	U	2.01	10.0	1	04/20/2018 00:31	WG1099358
Pentachlorophenol	0.313	U	0.313	10.0	1	04/20/2018 00:31	WG1099358
Phenol	0.334	U	0.334	10.0	1	04/20/2018 00:31	WG1099358
2,3,4,6-Tetrachlorophenol	2.00	U	2.00	10.0	1	04/20/2018 00:31	WG1099358
2,4,5-Trichlorophenol	0.236	U	0.236	10.0	1	04/20/2018 00:31	WG1099358
2,4,6-Trichlorophenol	0.297	U	0.297	10.0	1	04/20/2018 00:31	WG1099358
1,3-Dinitrobenzene	0.359	U	0.359	10.0	1	04/25/2018 17:41	WG1099358
(S) 2-Fluorophenol	*47.2*			*10.0-120*		*04/20/2018 00:31*	WG1099358
(S) Phenol-d5	*37.9*			*10.0-120*		*04/20/2018 00:31*	WG1099358
(S) Nitrobenzene-d5	*58.3*			*10.0-126*		*04/20/2018 00:31*	WG1099358
(S) 2-Fluorobiphenyl	*64.8*			*22.0-127*		*04/20/2018 00:31*	WG1099358
(S) 2,4,6-Tribromophenol	*86.3*			*10.0-153*		*04/20/2018 00:31*	WG1099358
(S) p-Terphenyl-d14	*82.6*			*29.0-141*		*04/20/2018 00:31*	WG1099358

Method Blank (MB)

(MB) R3303265-3 04/19/18 15:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acenaphthene	0.316	U	0.316	1.00
Acenaphthylene	0.309	U	0.309	1.00
Aniline	2.43	U	2.43	10.0
Anthracene	0.291	U	0.291	1.00
Benzidine	4.32	U	4.32	10.0
Benzo(a)anthracene	0.0970	U	0.0970	1.00
Benzo(b)fluoranthene	0.0890	U	0.0890	1.00
Benzo(k)fluoranthene	0.355	U	0.355	1.00
Benzo(g,h,i)perylene	0.161	U	0.161	1.00
Benzo(a)pyrene	0.340	U	0.340	1.00
Bis(2-chlorethoxy)methane	0.329	U	0.329	10.0
Bis(2-chloroethyl)ether	1.62	U	1.62	10.0
Bis(2-chloroisopropyl)ether	0.445	U	0.445	10.0
4-Bromophenyl-phenylether	0.335	U	0.335	10.0
2-Chloronaphthalene	0.330	U	0.330	1.00
4-Chlorophenyl-phenylether	0.303	U	0.303	10.0
Chrysene	0.332	U	0.332	1.00
Dibenz(a,h)anthracene	0.279	U	0.279	1.00
Caprolactam	2.59	U	2.59	10.0
Carbazole	0.260	U	0.260	10.0
4-Chloroaniline	0.382	U	0.382	10.0
3,3-Dichlorobenzidine	2.02	U	2.02	10.0
2,4-Dinitrotoluene	1.65	U	1.65	10.0
2,6-Dinitrotoluene	0.279	U	0.279	10.0
Fluoranthene	0.310	U	0.310	1.00
Dibenzofuran	0.338	U	0.338	10.0
Fluorene	0.323	U	0.323	1.00
1,2-Dichlorobenzene	3.29	U	3.29	10.0
Hexachlorobenzene	0.341	U	0.341	1.00
1,3-Dichlorobenzene	0.383	U	0.383	10.0
Hexachloro-1,3-butadiene	0.329	U	0.329	10.0
1,4-Dichlorobenzene	0.401	U	0.401	10.0
Hexachlorocyclopentadiene	2.33	U	2.33	10.0
Hexachloroethane	0.365	U	0.365	10.0
Indeno(1,2,3-cd)pyrene	0.279	U	0.279	1.00
Isophorone	0.272	U	0.272	10.0
Naphthalene	0.372	U	0.372	1.00
Nitrobenzene	0.367	U	0.367	10.0
n-Nitrosodimethylamine	1.26	U	1.26	10.0
n-Nitrosodiphenylamine	0.304	U	0.304	10.0

Method Blank (MB)

(MB) R3303265-3 04/19/18 15:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
n-Nitrosodi-n-propylamine	0.403	U	0.403	10.0
Phenanthrene	0.366	U	0.366	1.00
Benzylbutyl phthalate	0.275	U	0.275	3.00
Bis(2-ethylhexyl)phthalate	0.709	U	0.709	3.00
Di-n-butyl phthalate	0.266	U	0.266	3.00
1-Methylnaphthalene	0.332	U	0.332	1.00
Diethyl phthalate	0.282	U	0.282	3.00
2-Methylnaphthalene	0.311	U	0.311	1.00
Dimethyl phthalate	0.283	U	0.283	3.00
Di-n-octyl phthalate	0.278	U	0.278	3.00
2-Nitroaniline	1.90	U	1.90	10.0
Pyrene	0.330	U	0.330	1.00
1,2,4-Trichlorobenzene	0.355	U	0.355	10.0
3-Nitroaniline	0.308	U	0.308	10.0
4-Nitroaniline	0.349	U	0.349	10.0
1,2-Diphenylhydrazine	0.318	U	0.318	10.0
4-Chloro-3-methylphenol	0.263	U	0.263	10.0
2-Chlorophenol	0.283	U	0.283	10.0
2-Nitrophenol	0.320	U	0.320	10.0
4-Nitrophenol	2.01	U	2.01	10.0
Pentachlorophenol	0.313	U	0.313	10.0
Phenol	0.334	U	0.334	10.0
2,4,6-Trichlorophenol	0.297	U	0.297	10.0
Pyridine	1.37	U	1.37	10.0
Benzyl Alcohol	0.393	U	0.393	10.0
2,4-Dichlorophenol	0.284	U	0.284	10.0
2,4-Dimethylphenol	0.624	U	0.624	10.0
2-Methylphenol	0.312	U	0.312	10.0
3&4-Methyl Phenol	0.266	U	0.266	10.0
4,6-Dinitro-2-methylphenol	2.62	U	2.62	10.0
2,4-Dinitrophenol	3.25	U	3.25	10.0
2,3,4,6-Tetrachlorophenol	2.00	U	2.00	10.0
2,4,5-Trichlorophenol	0.236	U	0.236	10.0
(S) Nitrobenzene-d5	*61.4*			*10.0-126*
(S) 2-Fluorobiphenyl	*68.0*			*22.0-127*
(S) p-Terphenyl-d14	*81.5*			*29.0-141*
(S) Phenol-d5	*39.6*			*10.0-120*
(S) 2-Fluorophenol	*53.7*			*10.0-120*
(S) 2,4,6-Tribromophenol	*71.5*			*10.0-153*

Method Blank (MB)

(MB) R3305001-1 04/25/18 16:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,3-Dinitrobenzene	0.359	U	0.359	10.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3303265-1 04/19/18 15:04 • (LCSD) R3303265-2 04/19/18 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	50.0	38.1	38.4	76.2	76.9	42.0-120			0.799	22
Acenaphthylene	50.0	39.6	38.5	79.2	77.0	43.0-120			2.76	22
Anthracene	50.0	35.9	37.7	71.9	75.4	44.0-120			4.78	20
Benzidine	50.0	13.2	14.5	26.4	29.0	1.00-120			9.40	36
Benzo(a)anthracene	50.0	40.0	42.0	79.9	83.9	44.0-120			4.85	20
Benzo(b)fluoranthene	50.0	41.5	42.5	83.1	84.9	40.0-120			2.18	21
Benzo(k)fluoranthene	50.0	39.0	39.7	77.9	79.4	41.0-120			1.81	22
Benzo(g,h,i)perylene	50.0	42.4	42.7	84.8	85.4	45.0-121			0.720	20
Benzo(a)pyrene	50.0	40.3	40.8	80.6	81.7	41.0-120			1.33	20
Bis(2-chlorethoxy)methane	50.0	30.7	32.6	61.5	65.2	36.0-120			5.86	25
Bis(2-chloroethyl)ether	50.0	32.6	35.6	65.3	71.1	24.0-120			8.56	29
Bis(2-chloroisopropyl)ether	50.0	30.2	33.7	60.4	67.5	32.0-120			11.0	29
4-Bromophenyl-phenylether	50.0	38.6	39.1	77.2	78.2	42.0-121			1.33	21
2-Chloronaphthalene	50.0	35.9	35.0	71.8	70.0	37.0-120			2.45	24
4-Chlorophenyl-phenylether	50.0	38.4	38.9	76.7	77.8	44.0-120			1.32	21
Chrysene	50.0	39.0	40.7	78.0	81.5	45.0-120			4.40	20
Dibenz(a,h)anthracene	50.0	42.3	42.1	84.6	84.1	44.0-121			0.589	21
3,3-Dichlorobenzidine	50.0	36.2	38.6	72.4	77.3	29.0-153			6.55	23
2,4-Dinitrotoluene	50.0	41.8	41.7	83.6	83.3	47.0-127			0.293	21
2,6-Dinitrotoluene	50.0	38.1	39.3	76.1	78.5	42.0-120			3.10	22
Fluoranthene	50.0	40.3	41.3	80.6	82.6	46.0-121			2.51	20
Fluorene	50.0	40.2	40.3	80.5	80.6	45.0-120			0.202	21
Hexachlorobenzene	50.0	38.7	41.4	77.5	82.8	41.0-124			6.62	21
Aniline	50.0	23.2	24.4	46.4	48.7	10.0-120			4.86	25
Hexachloro-1,3-butadiene	50.0	28.7	29.2	57.4	58.4	26.0-120			1.66	31
Hexachlorocyclopentadiene	50.0	31.1	32.2	62.3	64.3	10.0-120			3.27	31
Hexachloroethane	50.0	31.5	32.5	63.0	64.9	22.0-120			3.02	34
Indeno(1,2,3-cd)pyrene	50.0	44.0	45.4	88.1	90.7	45.0-123			3.00	21
Isophorone	50.0	35.3	36.5	70.5	73.1	37.0-120			3.56	24
Naphthalene	50.0	28.7	29.5	57.4	59.0	33.0-120			2.81	28
Nitrobenzene	50.0	31.8	32.1	63.6	64.2	31.0-120			0.863	28
n-Nitrosodimethylamine	50.0	20.4	24.3	40.8	48.7	10.0-120			17.6	34

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3303265-1 04/19/18 15:04 • (LCSD) R3303265-2 04/19/18 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Nitrosodiphenylamine	50.0	41.4	42.2	82.7	84.4	44.0-120			2.00	21
n-Nitrosodi-n-propylamine	50.0	41.5	44.6	82.9	89.2	29.0-120			7.27	27
Phenanthrene	50.0	37.2	39.1	74.4	78.2	42.0-120			4.96	20
Benzylbutyl phthalate	50.0	40.3	43.4	80.5	86.9	36.0-123			7.56	22
Bis(2-ethylhexyl)phthalate	50.0	42.1	43.7	84.1	87.3	37.0-121			3.79	21
Di-n-butyl phthalate	50.0	41.3	42.5	82.6	85.1	43.0-122			2.92	21
Diethyl phthalate	50.0	40.7	41.6	81.3	83.1	48.0-123			2.17	20
Dimethyl phthalate	50.0	40.9	40.9	81.8	81.7	47.0-120			0.114	20
Caprolactam	50.0	13.2	13.7	26.4	27.3	10.0-120			3.56	31
Di-n-octyl phthalate	50.0	43.4	44.4	86.9	88.8	38.0-120			2.14	22
Carbazole	50.0	44.3	45.6	88.6	91.3	45.0-121			2.91	22
Pyrene	50.0	40.8	42.0	81.6	83.9	43.0-120			2.74	21
1,2,4-Trichlorobenzene	50.0	28.7	29.6	57.3	59.2	29.0-120			3.15	29
4-Chloroaniline	50.0	27.0	28.4	54.0	56.8	23.0-120			5.18	28
1,2-Diphenylhydrazine	50.0	45.0	45.5	90.0	90.9	37.0-125			0.979	20
Dibenzofuran	50.0	38.7	38.7	77.3	77.3	42.0-120			0.0185	21
1,2-Dichlorobenzene	50.0	31.2	32.9	62.4	65.9	27.0-120			5.41	30
4-Chloro-3-methylphenol	50.0	36.7	37.1	73.4	74.2	39.0-120			1.00	22
1,3-Dichlorobenzene	50.0	30.8	31.6	61.6	63.3	26.0-120			2.76	31
2-Chlorophenol	50.0	31.9	33.7	63.8	67.5	28.0-120			5.68	29
1,4-Dichlorobenzene	50.0	30.5	31.7	61.0	63.3	26.0-120			3.77	30
2,4-Dichlorophenol	50.0	32.9	33.5	65.9	67.0	37.0-120			1.72	26
2,4-Dimethylphenol	50.0	33.4	35.1	66.9	70.2	35.0-120			4.84	25
4,6-Dinitro-2-methylphenol	50.0	43.9	47.7	87.8	95.5	34.0-125			8.42	27
2,4-Dinitrophenol	50.0	37.1	37.2	74.2	74.3	10.0-120			0.126	40
2-Nitrophenol	50.0	31.3	32.4	62.6	64.9	35.0-120			3.57	28
4-Nitrophenol	50.0	23.3	24.7	46.7	49.3	10.0-120			5.44	35
1-Methylnaphthalene	50.0	29.0	29.8	57.9	59.6	33.0-120			2.89	23
Pentachlorophenol	50.0	39.1	41.0	78.2	81.9	20.0-126			4.67	32
2-Methylnaphthalene	50.0	28.3	29.7	56.7	59.3	35.0-120			4.59	25
Phenol	50.0	21.1	22.6	42.2	45.2	10.0-120			6.84	34
2,4,6-Trichlorophenol	50.0	39.8	39.0	79.6	78.1	40.0-122			2.02	24
2-Nitroaniline	50.0	39.4	39.3	78.9	78.5	43.0-120			0.438	23
3-Nitroaniline	50.0	33.5	35.6	66.9	71.2	35.0-123			6.22	25
4-Nitroaniline	50.0	43.2	45.3	86.3	90.6	23.0-160			4.78	26
Pyridine	50.0	13.4	13.8	26.8	27.5	10.0-120			2.58	39
Benzyl Alcohol	50.0	29.9	31.4	59.8	62.7	20.0-120			4.68	22
2-Methylphenol	50.0	32.4	33.9	64.9	67.9	26.0-120			4.47	27
3&4-Methyl Phenol	50.0	36.3	38.7	72.6	77.4	27.0-120			6.32	28
2,4,5-Trichlorophenol	50.0	40.0	41.3	80.0	82.7	44.0-124			3.24	24

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3303265-1 04/19/18 15:04 • (LCSD) R3303265-2 04/19/18 15:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,3,4,6-Tetrachlorophenol	50.0	45.1	45.9	90.2	91.8	39.0-122			1.79	28
(S) Nitrobenzene-d5				*63.4*	*65.7*	*10.0-126*				
(S) 2-Fluorobiphenyl				*72.8*	*73.0*	*22.0-127*				
(S) p-Terphenyl-d14				*82.7*	*83.0*	*29.0-141*				
(S) Phenol-d5				*41.8*	*42.9*	*10.0-120*				
(S) 2-Fluorophenol				*58.6*	*58.7*	*10.0-120*				
(S) 2,4,6-Tribromophenol				*77.5*	*84.1*	*10.0-153*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates the compound was analyzed for but not detected above the method detection limit.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

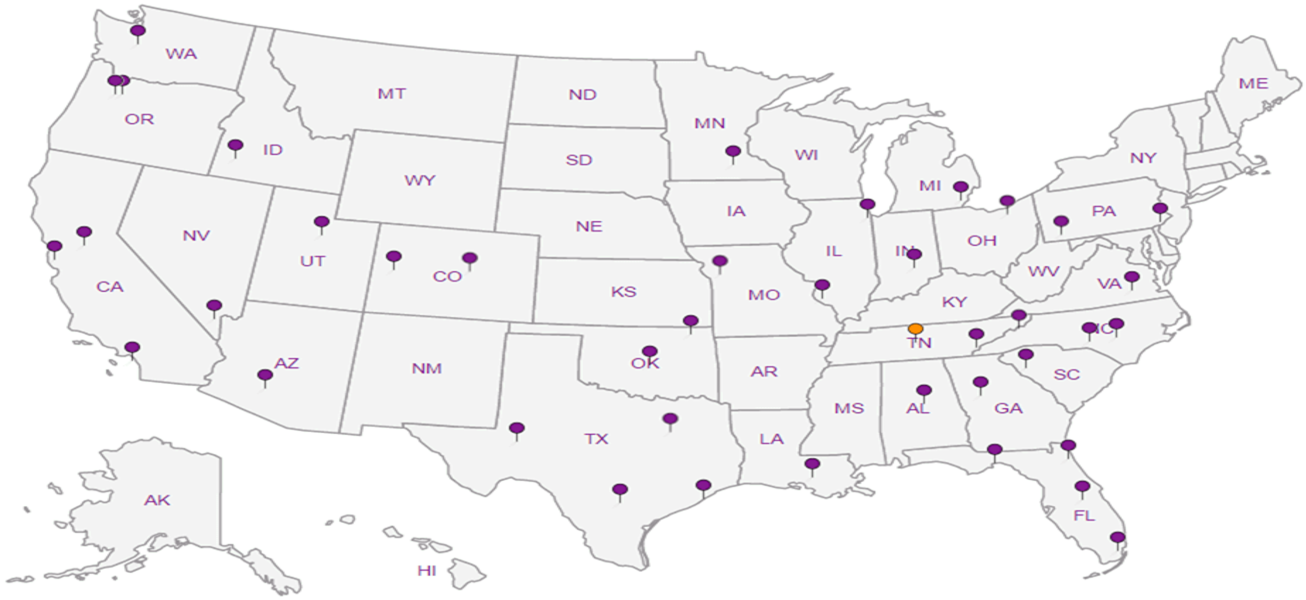
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



C079

Chain of Custody

Pace Analytical
www.pacelabs.com

L986311

Workorder: 35386065 **Workorder Name:** Safety Kleen Facility **Results Requested By:** 4/23/2018

Report / Invoice To

Lori Palmer
Pace Analytical Tampa
110 South Bayview Blvd.
Oldsmar , FL 34677
Phone (813)881-9401
Email: lori.palmer@pacelabs.com

Subcontract To

ESC

P.O. FIS-9991

State of Sample Origin: FL

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers						Requested Analysis												LAB USE ONLY
					Unpreserved						8270 Full List												
1	MW-2R-041318	4/13/2018 10:49	35386065001	Water	3						X												-01
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Dawn Sargent	4/16/18 1600	Fedex	4/16/18 1600
2			[illegible] 841	4/17/18 0845
3				

Comments

See attached ~~List~~ List

Cooler Temperature on Receipt ______ °C | Custody Seal [✓ Y] or N | Received on Ice Y or N | Samples Intact Y or N

Tracking #: 772 0 0442 8032

0.9 mg/60

3 total

L986311

Profile List

PASI Ormond Beach Laboratory

Pace Analytical®
www.pacelabs.com

Client 37-ECTTAM **Profile Number** 9321 **Line Item** 1

Line Item	Acode	Cmp List	Cmp	Analyte	CAS No.	PQL	MDL	Units	Sig Figs
1	~~8260 W~~	~~8260 W~~	tolu	Toluene	108-88-3	1	0.5	ug/L	E
			t12d	trans-1,2-Dichloroethene	156-60-5	1	0.5	ug/L	E
			t13d	trans-1,3-Dichloropropene	10061-02-6	0.5	0.25	ug/L	E
			t14d	trans-1,4-Dichloro-2-butene	110-57-6	10	5	ug/L	E
			tce	Trichloroethene	79-01-6	1	0.5	ug/L	E
			tcfl	Trichlorofluoromethane	75-69-4	1	0.5	ug/L	E
			vace	Vinyl acetate	108-05-4	10	1	ug/L	E
			vcrd	Vinyl chloride	75-01-4	1	0.5	ug/L	E
			mpxy	m&p-Xylene	179601-23-1	2	1	ug/L	E
			oxyl	o-Xylene	95-47-6	1	0.5	ug/L	E
			txyl	Xylene (Total)	1330-20-7	3	1.5	ug/L	E
	~~8270 PAHLV~~	~~8270 PAHLV~~	naph	Naphthalene	91-20-3	2	0.0479	ug/L	E
			2mnp	2-Methylnaphthalene	91-57-6	2	0.0444	ug/L	E
			1mpn	1-Methylnaphthalene	90-12-0	2	0.0315	ug/L	E
			acp2	Acenaphthylene	208-96-8	0.5	0.012	ug/L	E
			acp1	Acenaphthene	83-32-9	0.5	0.0134	ug/L	E
			fluo	Fluorene	86-73-7	0.5	0.0157	ug/L	E
			phth	Phenanthrene	85-01-8	0.5	0.0184	ug/L	E
			anth	Anthracene	120-12-7	0.5	0.0119	ug/L	E
			flut	Fluoranthene	206-44-0	0.5	0.018	ug/L	E
			pyre	Pyrene	129-00-0	0.5	0.0186	ug/L	E
			beza	Benzo(a)anthracene	56-55-3	0.1	0.0554	ug/L	E
			chry	Chrysene	218-01-9	0.5	0.0255	ug/L	E
			bezp	Benzo(a)pyrene	50-32-8	0.1	0.0199	ug/L	E
			bezf	Benzo(b)fluoranthene	205-99-2	0.1	0.0267	ug/L	E
			inde	Indeno(1,2,3-cd)pyrene	193-39-5	0.15	0.1214	ug/L	E
			diba	Dibenz(a,h)anthracene	53-70-3	0.15	0.1294	ug/L	E
			bep2	Benzo(g,h,i)perylene	191-24-2	0.5	0.0416	ug/L	E
			bef2	Benzo(k)fluoranthene	207-08-9	0.5	0.0234	ug/L	E
	8270 WSEP	8270 WSEP	phol	Phenol	108-95-2	5	0.54	ug/L	E
			bis1	bis(2-Chloroethyl) ether	111-44-4	4	0.75	ug/L	E
			2cph	2-Chlorophenol	95-57-8	5	0.68	ug/L	E
			13dc	1,3-Dichlorobenzene	541-73-1	5	0.76	ug/L	E
			14db	1,4-Dichlorobenzene	106-46-7	5	0.77	ug/L	E
			12db	1,2-Dichlorobenzene	95-50-1	5	0.68	ug/L	E
			2mph	2-Methylphenol(o-Cresol)	95-48-7	5	0.73	ug/L	E
			bis2	bis(2-Chloroisopropyl) ether	108-60-1	5	0.73	ug/L	E
			34mp	3&4-Methylphenol(m&p Cresol)		10	0.66	ug/L	E
			nidp	N-Nitroso-di-n-propylamine	621-64-7	4	0.94	ug/L	E
			hece	Hexachloroethane	67-72-1	5	0.71	ug/L	E
			nitb	Nitrobenzene	98-95-3	4	1.09	ug/L	E
			iso1	Isophorone	78-59-1	5	0.73	ug/L	E
			2nph	2-Nitrophenol	88-75-5	5	0.81	ug/L	E
			24dm	2,4-Dimethylphenol	105-67-9	5	1.58	ug/L	E
			24dc	2,4-Dichlorophenol	120-83-2	2	0.56	ug/L	E
			12b4	1,2,4-Trichlorobenzene	120-82-1	5	0.83	ug/L	E
			naph	Naphthalene	91-20-3	5	0.78	ug/L	E

L986311

Profile List

PASI Ormond Beach Laboratory

Client 37-ECTTAM **Profile Number** 9321 **Line Item** 1

Line Item	Acode	Cmp List	Cmp	Analyte	CAS No.	PQL	MDL	Units	Sig Figs
1	8270 WSEP	8270 WSEP	4cha	4-Chloroaniline	106-47-8	5	1.21	ug/L	E
			h13b	Hexachloro-1,3-butadiene	87-68-3	2	1.08	ug/L	E
			4c3m	4-Chloro-3-methylphenol	59-50-7	20	0.62	ug/L	E
			2myp	2-Methylnaphthalene	91-57-6	5	0.99	ug/L	E
			hecc	Hexachlorocyclopentadiene	77-47-4	5	1.28	ug/L	E
			24c6	2,4,6-Trichlorophenol	88-06-2	2	0.69	ug/L	E
			24t5	2,4,5-Trichlorophenol	95-95-4	4	0.52	ug/L	E
			2cna	2-Chloronaphthalene	91-58-7	5	0.8	ug/L	E
			2nnl	2-Nitroaniline	88-74-4	5	0.6	ug/L	E
			dipt	Dimethylphthalate	131-11-3	5	0.64	ug/L	E
			acp2	Acenaphthylene	208-96-8	5	0.95	ug/L	E
			26dt	2,6-Dinitrotoluene	606-20-2	2	1.22	ug/L	E
			3nin	3-Nitroaniline	99-09-2	5	0.99	ug/L	E
			acp1	Acenaphthene	83-32-9	5	0.86	ug/L	E
			24dp	2,4-Dinitrophenol	51-28-5	20	1.57	ug/L	E
			4nph	4-Nitrophenol	100-02-7	20	1.08	ug/L	E
			dibz	Dibenzofuran	132-64-9	5	0.67	ug/L	E
			24dt	2,4-Dinitrotoluene	121-14-2	2	0.53	ug/L	E
			dpht	Diethylphthalate	84-66-2	5	0.51	ug/L	E
			4cph	4-Chlorophenylphenyl ether	7005-72-3	5	0.63	ug/L	E
			fluo	Fluorene	86-73-7	5	0.56	ug/L	E
			4nin	4-Nitroaniline	100-01-6	4	0.69	ug/L	E
			46dp	4,6-Dinitro-2-methylphenol	534-52-1	20	1.32	ug/L	E
			nndp	N-Nitrosodiphenylamine	86-30-6	5	0.5	ug/L	E
			4bpp	4-Bromophenylphenyl ether	101-55-3	5	0.67	ug/L	E
			hecb	Hexachlorobenzene	118-74-1	1	0.8	ug/L	E
			ptcf	Pentachlorophenol	87-86-5	20	0.66	ug/L	E
			phth	Phenanthrene	85-01-8	5	0.52	ug/L	E
			anth	Anthracene	120-12-7	5	0.6	ug/L	E
			dnbp	Di-n-butylphthalate	84-74-2	5	0.41	ug/L	E
			flut	Fluoranthene	206-44-0	5	0.54	ug/L	E
			pyre	Pyrene	129-00-0	5	0.68	ug/L	E
			bbzp	Butylbenzylphthalate	85-68-7	5	0.72	ug/L	E
			33db	3,3'-Dichlorobenzidine	91-94-1	10	0.69	ug/L	E
			beza	Benzo(a)anthracene	56-55-3	5	0.63	ug/L	E
			chry	Chrysene	218-01-9	5	0.37	ug/L	E
			bis4	bis(2-Ethylhexyl)phthalate	117-81-7	5	0.8	ug/L	E
			dnop	Di-n-octylphthalate	117-84-0	5	0.9	ug/L	E
			bezf	Benzo(b)fluoranthene	205-99-2	2	0.62	ug/L	E
			bef2	Benzo(k)fluoranthene	207-08-9	4	0.51	ug/L	E
			bezp	Benzo(a)pyrene	50-32-8	1	0.58	ug/L	E
			inde	Indeno(1,2,3-cd)pyrene	193-39-5	2	0.73	ug/L	E
			diba	Dibenz(a,h)anthracene	53-70-3	2	0.65	ug/L	E
			bep2	Benzo(g,h,i)perylene	191-24-2	5	0.68	ug/L	E
			carz	Carbazole	86-74-8	5	0.47	ug/L	E
			cprl	Caprolactam	105-60-2	5	1.26	ug/L	E
			23p6	2,3,4,6-Tetrachlorophenol	58-90-2	5	3.85	ug/L	E

L98631

Profile List

PASI Ormond Beach Laboratory

Client 37-ECTTAM **Profile Number** 9321 **Line Item** 1

Line Item	Acode	Cmp List	Cmp	Analyte	CAS No.	PQL	MDL	Units	Sig Figs
1	8270 WSEP	8270 WSEP	12dz	1,2-Diphenylhydrazine	122-66-7	5	0.33	ug/L	E
			anil	Aniline	62-53-3	5	1.98	ug/L	E
			bezd	Benzidine	92-87-5	25	0.77	ug/L	E
			bis0	bis(2-Chloroethoxy)methane	111-91-1	5	2.95	ug/L	E
			nndm	N-Nitrosodimethylamine	62-75-9	2	0.97	ug/L	E
			pyri	Pyridine	110-86-1	5	1.49	ug/L	E
			1mpe	1-Methylnaphthalene	90-12-0	5	1	ug/L	E
			23t6	2,3,5,6-Tetrachlorophenol	935-95-5	5	0.52	ug/L	E
			12dnb	1,2-Dinitrobenzene	528-29-0	5	0.327	ug/L	E
			13dn	1,3-Dinitrobenzene	99-65-0	8	0.297	ug/L	E
			beal	Benzyl alcohol	100-51-6	5	0.63	ug/L	E
	FLPRO WLV	FLPRO WLV	pro	Petroleum Range Organics		1	0.8	mg/L	E
	SUBOUT-OUT								

*The MDLs listed are not instrument specific.

*Signficant Figures:

Numeric Value - The actual number of significant figures

E (EPA) - Numbers less than 10 have 2 significant figures and numbers greater than or equal to 10 have 3 significant figures

M (Metals) - Numbers less than 100 have 2 significant figures and numbers greater than or equal to 100 have 3 significant figures

O (Organics) - Numbers less than 1 have 1 significant figure, numbers less than 100 but not less than 1 have 2 significant figures, and numbers greater than or equal to 100 have 3 significant figures.

ESC LAB SCIENCES
Cooler Receipt Form

Client: PACEOBFL SDG# L986311

Cooler Received/Opened On: 04/17 /18 Temperature: 0.9

Received By: Kelly Mercer

Signature: Kelly Mercer

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Industrial Waste Operating Report Form (IWORF)

Permit #: IW-333 **Permit Year:** 2018

Facility Name: SAFETY-KLEEN SYSTEMS, INC.

Facility Address: 8755 NW 95 ST
MEDLEY, FL 33178

Contact Name: Mr. Larry Rodriguez

Reports must be mailed to:
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Ct, Suite #700
Miami, FL 33136-3912

Instructions: Indicate which report is being provided by checking off the applicable "Source Type" box(es) from the listing below. In addition, indicate the period being reported and attach the applicable information (e.g. waste manifests, analytical results, etc.) as required by each Source Type. Refer to the operating permit document for more information on reporting and sampling requirements, including analytical methodologies, applicable to the referenced facility.

Reporting Requirements:

☐ Source Type:RR-1 Reporting Frequency: Quarterly Reporting Period: ____________

Description: Copies of manifests and/or receipts of all hazardous waste, industrial waste, industrial wastewater, sludge and/or ash disposed of. Information shall include name of hauler, volume and final destination. Records shall also be maintained on-site for review.

Sampling Requirements:

☒ Source Type: SMP-1 Reporting Frequency: Annually Reporting Period: 6/15/19

Description: Groundwater from the facility monitoring well(s).

Parameters: Cadmium (Total), Chromium (Total), Lead (Total), Silver (Total)

☒ Source Type: SMP-2 Reporting Frequency: Annually Reporting Period: 6/15/19

Description: Groundwater from monitoring well nearest the containment area stormwater discharge point.

Parameters: EPA Series 8260, EPA Series 8270, TRPH

Average Daily Waste Water Flow Discharge to Sanitary Sewers: ____________ Gallons Per Day (GPD)

I hereby certify that, to the best of my knowledge, this document and all attachments are true, accurate and complete.

Authorized Representative or Corporate Officer

6/5/19
Report Completion Date

Environmental
Consulting &
Technology, Inc.

June 5, 2019
180212-1901

Mr. Michael Montano, Environmental Specialist Supervisor
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, Suite #700
Miami, Florida 33136-3192

Re: Safety-Kleen Systems, Inc., Medley, Florida
Industrial Waste Permit No. IW-000333-2018/2019 (File # 10139)
Annual Report of Groundwater Quality

Dear Mr. Montano:

On behalf of Safety-Kleen Systems, Inc. (S-K), this document comprises the Annual Report of Groundwater Quality as required by Specific Condition 16 and the associated sampling requirements in the above-referenced Industrial Waste Annual Operating Permit for S-K's Medley, Florida facility. Environmental Consulting & Technology, Inc. (ECT) completed the annual groundwater sampling at the above-referenced Medley facility in accordance with the facility's permit.

On May 2, 2019, ECT collected groundwater samples from monitoring wells MW-1, MW-2R (a.k.a. MW-2), and MW-3 per the annual SMP-1 requirement, and from monitoring well MW-2R per the annual SMP-2 requirement. The samples from all three wells (for SMP-1) were submitted to Pace Analytical Services, Inc. (PAS) for analyses of the silver, cadmium, chromium, and lead by U.S. Environmental Protection Agency (EPA) Method 200.8. In addition, samples from monitoring well MW-2R (for SMP-2) were also submitted to PAS for analyses of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Florida Petroleum Range Organics (FLPRO). The locations of the facility's groundwater monitoring wells are shown on the enclosed Figure 2.1-1.

A peristaltic pump was used to purge and sample the monitoring wells. The field notes, groundwater sampling logs, and equipment calibration forms are provided in Attachment A. The groundwater quality results (laboratory report) are provided in Attachment B.

The laboratory report indicated that concentrations for three of the four metals (i.e., silver, cadmium, and lead) were below their respective method detection limits (MDLs) in all three wells sampled per the annual SMP-1 requirements. Chromium was detected at estimated concentrations of 0.62I micrograms per liter (µg/L) at monitoring well MW-2R and 0.79I µg/L at monitoring well MW-3. However, those concentrations were detected between the laboratory MDL and the laboratory practical quantitation limit (PQL) and are far below the groundwater cleanup target level (GCTL) of 100 µg/L for chromium as specified in the permit. Chromium was also detected at a concentration of 1.4 µg/L at monitoring well MW-1 but was well below its GCTL of 100 µg/L for chromium as specified in the permit.

1408 N Westshore
Blvd, Suite 115
Tampa, FL
33607

(813) 289-9338

FAX
(813) 289-9388

Per the annual SMP-2 requirement at monitoring well MW-2R, the laboratory report indicated the following results for the various analyses of organic parameters:

1. FLPRO concentrations were below the MDL; that is, none was detected.
2. No SVOC was detected (i.e., EPA Series 8270 parameters).
3. No VOC was detected (i.e., EPA Series 8260 parameters) with one exception. Specifically, acetone was detected at an estimated concentration of 7.9I µg/L. However, that concentration was detected between the laboratory MDL and the laboratory PQL and is far below its GCTL of 6,300 µg/L as specified in the permit. In addition, acetone is a recognized laboratory contaminant and was also detected at an estimated concentration of 5.8I µg/L in the trip blank provided by the laboratory.

As such, the observed groundwater quality is compliant with the permit.

If you have any questions regarding this report, please call Jeff Curtis of S-K at (561) 523-4719. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Keith F. Morrison

Keith F. Morrison
Project Manager

Gregory B. Page, P.E.
Senior Engineer III

SAFETY-KLEEN SYSTEMS, INC.

Jeff Curtis
EHS Manager, Florida
Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida 33426
jeff.curtis@safety-kleen.com

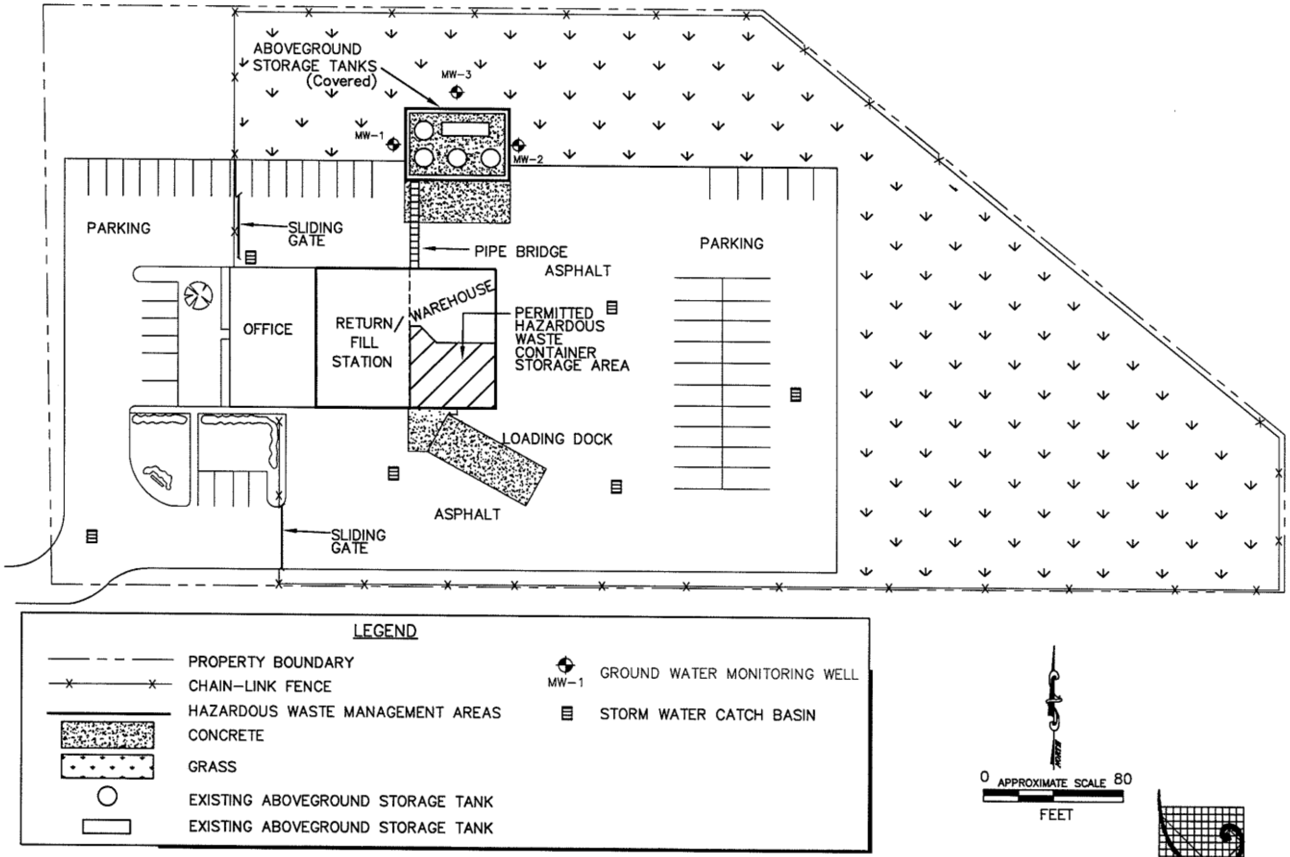
Enclosures:
Figure 2.1-1
Attachment A – Field Notes, Groundwater Sampling Logs, and Equipment Calibration Logs
Attachment B - Laboratory Report

cc: Robert Schoepke – S-K (electronic only)
Greg Page – ECT (electronic only)
Keith Morrison – ECT (electronic only)
Facility 999 File #1760, % S-K Medley facility Branch General Manager

FIGURE

Revision 0 – 09/20/12

Figure 2.1–1
Facility Layout & Access Control Features
Safety–Kleen Systems, Inc. Facility
Medley, Florida



ERM

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS, AND EQUIPMENT CALIBRATION LOGS

Safety Kleen-Medley / 2019 Annual Groundwater Monitoring Event P.2
180212-0200

ECT-Keith Morrison 5-1-19 & 5-2-19

5-1-19

1200 mobilize from TAMPA to Ft Lauderdale.

1600 at Condo in Ft. Lauderdale complete

= 4.0 hrs Keith F. Morrison

5-2-19 calibration check on meters. @630

700 off to Safety-Kleen Medley

815 onsite SK-Medley check in at office.

825 opening monitoring wells MW-1, MW-2R + MW-3. Weather overcast. ENE wind at 5 mph 74°F

Time	Well ID	Depth to Water	Well Lid/Cap condition
840	MW-1	3.25	good
836	MW-2R	3.69	good
838	MW-3	2.69	good

845 purging MW-2R

X 909 Sampling MW-2R / QA/QC (Lab samples collected for 8270 + TRPHS

928 complete

936 purging MW-3

X 1012 Sampling MW-3 - metals only

purging MW-1 / (2-5 gallon Buckets of IDW purge water generated

X 1035 Sampling MW-1 / clean up checkout of office)

1100 ECT - off to TAMPA Back to SK-Medley

1600 met PACE LAB courier at ECT office

Unload truck. calibration check on meters

1630 complete = 10.0 hrs

Keith F Morrison

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-1

SAMPLE ID: MW-1-050219

DATE: 5/2/19

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 3.25

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.2 feet – 3.25 feet) X 0.16 gallons/foot = 1.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

PURGING INITIATED AT: 1011

PURGING ENDED AT: 10

TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1028	1.36	1.36	0.08	3.41	7.04	26.31	544	0.29	1.29	Clear	None	-209
1031	0.24	1.60	↓	3.41	7.05	26.32	540	0.30	0.98	↓	↓	-209
1034	0.24	1.84	↓	3.41	7.06	26.34	537	0.29	0.90	↓	↓	-208

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison / ECT

SAMPLER(S) SIGNATURE(S): Keith F Morrison

SAMPLING INITIATED AT: 1035

SAMPLING ENDED AT: 1038

PUMP OR TUBING DEPTH IN WELL (feet): 7.0

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N] FILTER SIZE: ____ µm
Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1-050219	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate
									@303

REMARKS: $Q = \frac{0.13\ \text{gal}}{46\ \text{sec}} \times \frac{60\ \text{sec}}{1\ \text{min}} = 0.08\ \text{gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

17

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.
SITE LOCATION: 8755 NW 95th Street, Medley, FL
WELL NO: MW-2R
SAMPLE ID: MW-2- 050219
DATE: 5/2/19

PURGING DATA

WELL DIAMETER (inches): 2
TUBING DIAMETER (inches): ¼-OD 1/8-ID
WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet
STATIC DEPTH TO WATER (feet): 3.69
PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.4 feet – 3.69 feet) X 0.16 gallons/foot = 1.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0
PURGING INITIATED AT: 845
PURGING ENDED AT: 908
TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
902	≈1.4	≈1.4	0.08	3.85	7.05	25.76	556	0.59	2.92	Clear	None	-138
905	0.24	≈1.64	↓	3.85	7.03	25.79	546	0.56	2.27	↓	↓	-142
908	0.24	≈1.88	↓	3.85	7.04	25.81	540	0.54	1.90	↓	↓	-147

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison /ECT
SAMPLER(S) SIGNATURE(S):
SAMPLING INITIATED AT: 909
SAMPLING ENDED AT: 928
PUMP OR TUBING DEPTH IN WELL (feet): 5.0
TUBING MATERIAL CODE: HDPE
FIELD-FILTERED: Y [✓ N] FILTER SIZE: ____ µm
Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N](replaced)
DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-2R-050219	3	CG	40 ml	HCl+ Ice	NONE	<2	8260-Volatile Organic Compounds by EPA Method 8260	APP	~~<100~~ @ 303 ml/min
↓	~~1~~	~~AG~~	~~250 ml~~	~~Ice~~	~~NONE~~	~~--~~	8270-Semi-Volatile Organic Compounds by EPA Method 8270	APP	At purge rate 303
	1	AG	1L	Ice	None	—			
	1	PE	250 ml	HNO3 + Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate 303
↓	2	AG	100 ml	H2SO4 + Ice	NONE	<2	TRPHs by FL-PRO Method	APP	At purge rate 303

REMARKS: $Q = \frac{0.13\text{ gal}}{96\text{ sec}} \times \frac{60\text{ sec}}{1\text{ min}} = 0.08$ gpm
QA/QC - MS/MSD - Samples collected for 8270/TRPHs/
2-pieces of roots in 8260 bottles

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

17

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-3

SAMPLE ID: MW-3- 050219

DATE: 5/2/19

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 2.69

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.6 feet – 2.69 feet) X 0.16 gallons/foot = 1.43 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

PURGING INITIATED AT: 936

PURGING ENDED AT: 1001

TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
955	1.52	1.52	0.08	2.88	7.00	25.68	518	0.37	1.52	Clear	None	-139
958	0.24	1.76	↓	2.88	7.01	25.70	518	0.35	1.36	↓	↓	-144
1001	0.24	2.0	↓	2.88	7.01	25.72	517	0.36	1.29	↓	↓	-148

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/EES

SAMPLER(S) SIGNATURE(S): Keith F Morrison

SAMPLING INITIATED AT: 1002

SAMPLING ENDED AT: 1004

PUMP OR TUBING DEPTH IN WELL (feet): 7.0

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N] FILTER SIZE: ____ μm
Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
mw-3-050219	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate @ 303

REMARKS: $Q = \frac{0.13 \text{ gal}}{97 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.08 \text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

19 **pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Safety-Kleen Medley
2019 Annual Groundwater
monitoring

Instrument Calibration and Field Verification Log

Instrument Make: InSitu / YSI
Model: SmarTroll / [✓ 556 MPS]
Identification: ECT #2 | SN# 02C0709 AA
Sampler's Name / Signature: Keith F. Morrison / Keith F Morrison
Date: (mm/dd/yy) 5/2/19

Procedure Type: ICV, CCV, Cal	[✓ icv], ccv, cal	icv, [✓ ccv], cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal
Standard Values Time	630	1610							
pH 4.01 S.U.	4.07	4.06							
pH 7.00 S.U.	7.06	7.05							
pH 10.00 S.U.	9.94	9.95							
Within 0.2 S.U ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Conductivity 500 µS/cm Cal	502	503							
Conductivity 1000 µS/cm Ver	995	994							
Within 5% ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Temperature During D.O.	24 °C	25 °C	°C	°C	°C	°C	°C	°C	°C
D.O. mg/L @ Saturation (1/2)	8.5 | 100.1%	9.3 (99.2%)							
Within 0.3 mg/L ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Temperature During ORP	24 °C	25 °C	°C	°C	°C	°C	°C	°C	°C
ORP in mV	232	231							
Within 10 mV ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							

Calibration Solutions	Manufacturer	Lot Number	Expiration Date
pH 4.01 S.U.	Exaxol	19227C	09 / 2020
pH 7.00 S.U.	Exaxol	180507D	11 / 2019
pH 10.00 S.U.	Exaxol	191204A	06 / 2020
Conductivity ______ µS/cm Cal	Exaxol	190227A	~~10 / 2019~~ 03/2020
Conductivity ______ µS/cm Ver	Exaxol	181016B	10 /2019
ORP: mV@°C per mfr. specs.		181204B	12/2019

Notes Cal = Calibration
ICV = Initial Calibration Verification
CCV = Continued Calibration Verification

This form meets or exceeds the requirements of FDEP Form FD 9000-8

P:\A&RDEPT\QA\YSI calibration.xls

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

Safety-Kleen Medley 2019 Groundwater monitoring

INSTRUMENT (MAKE/MODEL#) HACH 2100Q **INSTRUMENT #** ELT #1 / SN# 161100535

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER ____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 10 NTUS STANDARD D. 800 NTUS

Standard B 20 NTUS

Standard C 100 NTUS

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
May 2, 2019	631	A	10 NTUS	9.85	±10%	Yes	INIT	KPM
	632	B	20 "	19.8	±8%	Yes	INIT	KPM
	633	C	100 "	98.1	±6.5%	Yes	INIT	KPM
	634	D	800 "	787	±5%	Yes	INIT	KPM
	1615	A	10 "	9.87	±10%	Yes	Cont	KPM
	1616	B	20 "	19.7	±8%	Yes	Cont	KPM
	1617	C	100 "	98.6	±6.5%	Yes	Cont	KPM
	1618	D	800 "	788	±5%	Yes	Cont	KPM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information

Company: Environmental Consulting & Technology-Tampa
Address: 1408 North Westshore Blvd
Tampa, FL 33607
Email: kmorrison@ectinc.com
Phone: 813-493-0383 Fax:
Requested Due Date:

Section B
Required Project Information

Report To: Keith Morrison
Copy To:
Purchase Order #:
Project Name: Safety Kleen Facility
Project #: 180212-0200

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com
Pace Profile #: 9321 line 1

Regulatory Agency:
State / Location: FL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME sample	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION OC	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Wate	Metals 200 8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	Trip BLANK						Residual Chlorine (Y/N)	
1	MW-2R -050219	WT		5-2-19	909	5-2-19	918	2.5	14	X	X	X							X	X	X	X	X	X								
2	MW-1 -050219	WT		5-2-19	1035	5-2-19	1038	2.6	1			X										X										
3	MW-3 - 050219	WT		5-2-19	1002	5-2-19	1004	2.5	1			X										X										
4	Trip Blank	WT																							x							
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Empty Containers	Pace	4/25/19	0730	Keith F. Morrison / ECT	4-26-19	1401				
	Keith F. Morrison / ECT	5-2-19	1630	for KRIC	5-2-19	1630				
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison / ECT
SIGNATURE of SAMPLER: Keith F. Morrison
DATE Signed: 5-2-19

Pace Container Order #491290

Order By :

Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Ship To :

Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Return To:

Company Pace Analytical Oldsmar
Contact Palmer, Lori
Email lori.palmer@pacelabs.com
Address 110 South Bayview Blvd.
Address 2
City Oldsmar
State FL Zip 34677
Phone (813)881-9401

Info

Project Name Safety Kleen Facility
Due Date 04/26/2019
Profile 9321 line 1
Quote
Project Palmer, Lori
Return
Carrier Pace Courier
Locatio FL

Trip Blanks

☒ Include Trip Blanks

Bottle

☐ Blank
☐ Pre-Printed No Sample IDs
☒ Pre-Printed With Sample IDs

☐ Boxed Cases
☐ Individually Wrapped
☐ Grouped By Sample

Return Shipping

☐ No Shipper
☐ With Shipper

COC Options

☐ Number of Blanks
☒ Pre-Printed

Misc

☐ Sampling Instructions
☐ Custody Seal
☐ Temp. Blanks
☐ Coolers
☐ Syringes

☐ Extra Bubble Wrap
☐ Short Hold/Rush
☐ DI Liter(s)
☐ USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	8260 Full List	3-40mL vial HCl	3	0		
1	WT	8270 Full list plus PAHs	1L Amber Glass Unpreserved + 250 mL AG unpres	2	0		
1	WT	FL Pro Low Volume for Waters	2-100 ml glass amber H2SO4	2	0		
3	WT	Metals 200.8 Ag,Cd,Cr,Pb	250mL plastic w/HNO3	3	0		
1	WT	8270 Full list plus PAHs MS/MSD	2-1L Amber Glass Unpreserved + 250 mL AG unpres	4	4		
1	WT	FL PRO MS/MSD	100ml glass amber H2SO4	2	2		
1	WT	Trip BLANK	2-40mL HCL	2	2		

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 8:00am-6:00pm unless special arrangements are made with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

Sample

Ship Date : 04/26/2019
Prepared BB
Verified By: BB

ATTACHMENT B

LABORATORY REPORT

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

May 10, 2019

Keith Morrison
Environmental Consulting & Techlology
1408 North Westshore Bllvd
Suite 115
Tampa, FL 33607

RE: Project: Safety Kleen Facility
Pace Project No.: 35465452

Dear Keith Morrison:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: A/P, Environmental Consulting & Technology

CERTIFICATIONS

Project:	Safety Kleen Facility
Pace Project No.:	35465452

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

SAMPLE SUMMARY

Project: Safety Kleen Facility
Pace Project No.: 35465452

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35465452001	**MW-2R-050219**	Water	05/02/19 09:28	05/02/19 17:00
35465452002	**MW-1-050219**	Water	05/02/19 10:38	05/02/19 17:00
35465452003	**MW-3-050219**	Water	05/02/19 10:04	05/02/19 17:00
35465452004	**Trip Blank**	Water	05/02/19 09:28	05/02/19 17:00

SAMPLE ANALYTE COUNT

Project: Safety Kleen Facility
Pace Project No.: 35465452

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35465452001	**MW-2R-050219**	FL-PRO	RJR	3
		EPA 200.8	FDV	4
		EPA 8270 by SIM	CB1	20
		EPA 8270	TWB	64
		EPA 8260	BTN	57
35465452002	**MW-1-050219**	EPA 200.8	FDV	4
35465452003	**MW-3-050219**	EPA 200.8	FDV	4
35465452004	**Trip Blank**	EPA 8260	BTN	57

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: MW-2R-050219 **Lab ID: 35465452001** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.77 U**	mg/L	0.96	0.77	1	05/07/19 10:55	05/07/19 20:48		
Surrogates									
o-Terphenyl (S)	90	%	66-139		1	05/07/19 10:55	05/07/19 20:48	84-15-1	
N-Pentatriacontane (S)	100	%	42-159		1	05/07/19 10:55	05/07/19 20:48	630-07-09	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:43	7440-43-9	
Chromium	**0.62 I**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:43	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:43	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:43	7440-22-4	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.040 U**	ug/L	0.50	0.040	1	05/06/19 13:19	05/07/19 14:51	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	05/06/19 13:19	05/07/19 14:51	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	05/06/19 13:19	05/07/19 14:51	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	05/06/19 13:19	05/07/19 14:51	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	05/06/19 13:19	05/07/19 14:51	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	05/06/19 13:19	05/07/19 14:51	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	05/06/19 13:19	05/07/19 14:51	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	05/06/19 13:19	05/07/19 14:51	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	05/06/19 13:19	05/07/19 14:51	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	05/06/19 13:19	05/07/19 14:51	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	05/06/19 13:19	05/07/19 14:51	206-44-0	
Fluorene	**0.088 U**	ug/L	0.50	0.088	1	05/06/19 13:19	05/07/19 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	05/06/19 13:19	05/07/19 14:51	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	05/06/19 13:19	05/07/19 14:51	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	05/06/19 13:19	05/07/19 14:51	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	05/06/19 13:19	05/07/19 14:51	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	05/06/19 13:19	05/07/19 14:51	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	05/06/19 13:19	05/07/19 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	33-82		1	05/06/19 13:19	05/07/19 14:51	321-60-8	
p-Terphenyl-d14 (S)	77	%	49-104		1	05/06/19 13:19	05/07/19 14:51	1718-51-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Aniline	**0.90 U**	ug/L	4.8	0.90	1	05/09/19 08:43	05/10/19 12:54	62-53-3	
Benzidine	**0.84 U**	ug/L	24.0	0.84	1	05/09/19 08:43	05/10/19 12:54	92-87-5	
Benzyl alcohol	**1.2 U**	ug/L	4.8	1.2	1	05/09/19 08:43	05/10/19 12:54	100-51-6	J(M1)
4-Bromophenylphenyl ether	**1.6 U**	ug/L	4.8	1.6	1	05/09/19 08:43	05/10/19 12:54	101-55-3	
Butylbenzylphthalate	**1.1 U**	ug/L	4.8	1.1	1	05/09/19 08:43	05/10/19 12:54	85-68-7	
Caprolactam	**0.38 U**	ug/L	4.8	0.38	1	05/09/19 08:43	05/10/19 12:54	105-60-2	N2
Carbazole	**1.1 U**	ug/L	4.8	1.1	1	05/09/19 08:43	05/10/19 12:54	86-74-8	J(L2)
4-Chloro-3-methylphenol	**5.2 U**	ug/L	19.2	5.2	1	05/09/19 08:43	05/10/19 12:54	59-50-7	J(M1)
4-Chloroaniline	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	106-47-8	J(M1)
bis(2-Chloroethoxy)methane	**1.6 U**	ug/L	4.8	1.6	1	05/09/19 08:43	05/10/19 12:54	111-91-1	J(M1)
bis(2-Chloroethyl) ether	**0.33 U**	ug/L	3.8	0.33	1	05/09/19 08:43	05/10/19 12:54	111-44-4	J(M1)

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: MW-2R-050219 **Lab ID: 35465452001** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Chloroisopropyl) ether	**1.7 U**	ug/L	5.8	1.7	1	05/09/19 08:43	05/10/19 12:54	108-60-1	
2-Chloronaphthalene	**0.33 U**	ug/L	4.8	0.33	1	05/09/19 08:43	05/10/19 12:54	91-58-7	J(M1)
2-Chlorophenol	**1.3 U**	ug/L	4.8	1.3	1	05/09/19 08:43	05/10/19 12:54	95-57-8	J(M1)
4-Chlorophenylphenyl ether	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	7005-72-3	J(M1)
Dibenzofuran	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	132-64-9	J(M1)
1,2-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	05/09/19 08:43	05/10/19 12:54	95-50-1	J(M1)
1,3-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	05/09/19 08:43	05/10/19 12:54	541-73-1	J(M1)
1,4-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	05/09/19 08:43	05/10/19 12:54	106-46-7	
3,3'-Dichlorobenzidine	**1.0 U**	ug/L	9.6	1.0	1	05/09/19 08:43	05/10/19 12:54	91-94-1	J(L2), J(M0)
2,4-Dichlorophenol	**0.33 U**	ug/L	1.9	0.33	1	05/09/19 08:43	05/10/19 12:54	120-83-2	J(M1)
Diethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	84-66-2	J(M1)
2,4-Dimethylphenol	**0.99 U**	ug/L	4.8	0.99	1	05/09/19 08:43	05/10/19 12:54	105-67-9	J(M1)
Dimethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	131-11-3	J(M1)
Di-n-butylphthalate	**1.0 U**	ug/L	4.8	1.0	1	05/09/19 08:43	05/10/19 12:54	84-74-2	J(L2)
4,6-Dinitro-2-methylphenol	**4.4 U**	ug/L	19.2	4.4	1	05/09/19 08:43	05/10/19 12:54	534-52-1	J(v1)
1,2-Dinitrobenzene	**1.8 U**	ug/L	5.8	1.8	1	05/09/19 08:43	05/10/19 12:54	528-29-0	
1,3-Dinitrobenzene	**1.1 U**	ug/L	7.7	1.1	1	05/09/19 08:43	05/10/19 12:54	99-65-0	J(v1)
2,4-Dinitrophenol	**2.5 U**	ug/L	19.2	2.5	1	05/09/19 08:43	05/10/19 12:54	51-28-5	J(v1)
2,4-Dinitrotoluene	**0.26 U**	ug/L	3.8	0.26	1	05/09/19 08:43	05/10/19 12:54	121-14-2	J(v1)
2,6-Dinitrotoluene	**0.27 U**	ug/L	1.9	0.27	1	05/09/19 08:43	05/10/19 12:54	606-20-2	
Di-n-octylphthalate	**0.88 U**	ug/L	4.8	0.88	1	05/09/19 08:43	05/10/19 12:54	117-84-0	
1,2-Diphenylhydrazine	**1.3 U**	ug/L	4.8	1.3	1	05/09/19 08:43	05/10/19 12:54	122-66-7	J(M1)
bis(2-Ethylhexyl)phthalate	**1.1 U**	ug/L	4.8	1.1	1	05/09/19 08:43	05/10/19 12:54	117-81-7	
Hexachloro-1,3-butadiene	**0.34 U**	ug/L	1.9	0.34	1	05/09/19 08:43	05/10/19 12:54	87-68-3	
Hexachlorobenzene	**0.28 U**	ug/L	0.96	0.28	1	05/09/19 08:43	05/10/19 12:54	118-74-1	
Hexachlorocyclopentadiene	**3.3 U**	ug/L	10.6	3.3	1	05/09/19 08:43	05/10/19 12:54	77-47-4	
Hexachloroethane	**1.3 U**	ug/L	4.8	1.3	1	05/09/19 08:43	05/10/19 12:54	67-72-1	
Isophorone	**1.6 U**	ug/L	4.8	1.6	1	05/09/19 08:43	05/10/19 12:54	78-59-1	J(M1)
2-Methylphenol(o-Cresol)	**0.29 U**	ug/L	4.8	0.29	1	05/09/19 08:43	05/10/19 12:54	95-48-7	J(M1)
3&4-Methylphenol(m&p Cresol)	**0.21 U**	ug/L	9.6	0.21	1	05/09/19 08:43	05/10/19 12:54		J(M1)
2-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	05/09/19 08:43	05/10/19 12:54	88-74-4	J(v1)
3-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	05/09/19 08:43	05/10/19 12:54	99-09-2	
4-Nitroaniline	**0.18 U**	ug/L	3.8	0.18	1	05/09/19 08:43	05/10/19 12:54	100-01-6	
Nitrobenzene	**0.36 U**	ug/L	3.8	0.36	1	05/09/19 08:43	05/10/19 12:54	98-95-3	J(M1)
2-Nitrophenol	**1.3 U**	ug/L	4.8	1.3	1	05/09/19 08:43	05/10/19 12:54	88-75-5	J(M1), J(v1)
4-Nitrophenol	**1.9 U**	ug/L	19.2	1.9	1	05/09/19 08:43	05/10/19 12:54	100-02-7	
N-Nitrosodimethylamine	**0.19 U**	ug/L	1.9	0.19	1	05/09/19 08:43	05/10/19 12:54	62-75-9	
N-Nitroso-di-n-propylamine	**0.32 U**	ug/L	3.8	0.32	1	05/09/19 08:43	05/10/19 12:54	621-64-7	J(M1)
N-Nitrosodiphenylamine	**1.2 U**	ug/L	4.8	1.2	1	05/09/19 08:43	05/10/19 12:54	86-30-6	J(M1)
Pentachlorophenol	**1.6 U**	ug/L	19.2	1.6	1	05/09/19 08:43	05/10/19 12:54	87-86-5	
Phenol	**0.60 U**	ug/L	4.8	0.60	1	05/09/19 08:43	05/10/19 12:54	108-95-2	
Pyridine	**1.1 U**	ug/L	4.8	1.1	1	05/09/19 08:43	05/10/19 12:54	110-86-1	
2,3,4,6-Tetrachlorophenol	**1.0 U**	ug/L	4.8	1.0	1	05/09/19 08:43	05/10/19 12:54	58-90-2	J(M1)
2,3,5,6-Tetrachlorophenol	**1.8 U**	ug/L	8.6	1.8	1	05/09/19 08:43	05/10/19 12:54	935-95-5	N2
1,2,4-Trichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	05/09/19 08:43	05/10/19 12:54	120-82-1	J(M1)

ANALYTICAL RESULTS

Project:	Safety Kleen Facility
Pace Project No.:	35465452

Sample: MW-2R-050219 **Lab ID: 35465452001** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2,4,5-Trichlorophenol	**0.22 U**	ug/L	3.8	0.22	1	05/09/19 08:43	05/10/19 12:54	95-95-4	
2,4,6-Trichlorophenol	**0.35 U**	ug/L	1.9	0.35	1	05/09/19 08:43	05/10/19 12:54	88-06-2	J(M1)
Surrogates									
Nitrobenzene-d5 (S)	27	%	10-94		1	05/09/19 08:43	05/10/19 12:54	4165-60-0	
2-Fluorobiphenyl (S)	28	%	10-96		1	05/09/19 08:43	05/10/19 12:54	321-60-8	
p-Terphenyl-d14 (S)	63	%	24-129		1	05/09/19 08:43	05/10/19 12:54	1718-51-0	
Phenol-d5 (S)	10	%	10-35		1	05/09/19 08:43	05/10/19 12:54	4165-62-2	
2-Fluorophenol (S)	13	%	10-55		1	05/09/19 08:43	05/10/19 12:54	367-12-4	
2,4,6-Tribromophenol (S)	48	%	10-126		1	05/09/19 08:43	05/10/19 12:54	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**7.9 I**	ug/L	20.0	5.3	1		05/03/19 18:56	67-64-1	
Acetonitrile	**24.5 U**	ug/L	40.0	24.5	1		05/03/19 18:56	75-05-8	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 18:56	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		05/03/19 18:56	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		05/03/19 18:56	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		05/03/19 18:56	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		05/03/19 18:56	74-83-9	J(v2)
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		05/03/19 18:56	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		05/03/19 18:56	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		05/03/19 18:56	56-23-5	J(v2)
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		05/03/19 18:56	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		05/03/19 18:56	75-00-3	J(L1), J(v1)
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		05/03/19 18:56	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		05/03/19 18:56	74-87-3	
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		05/03/19 18:56	96-12-8	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		05/03/19 18:56	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		05/03/19 18:56	106-93-4	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		05/03/19 18:56	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		05/03/19 18:56	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		05/03/19 18:56	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		05/03/19 18:56	110-57-6	J(v2)
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		05/03/19 18:56	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 18:56	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 18:56	540-59-0	N2
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 18:56	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 18:56	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		05/03/19 18:56	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		05/03/19 18:56	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		05/03/19 18:56	10061-01-5	J(v2)
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		05/03/19 18:56	10061-02-6	J(v2)
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 18:56	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		05/03/19 18:56	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		05/03/19 18:56	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 18:56	98-82-8	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: MW-2R-050219 **Lab ID: 35465452001** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		05/03/19 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		05/03/19 18:56	108-10-1	J(v2)
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		05/03/19 18:56	1634-04-4	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		05/03/19 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		05/03/19 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		05/03/19 18:56	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		05/03/19 18:56	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		05/03/19 18:56	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 18:56	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 18:56	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		05/03/19 18:56	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		05/03/19 18:56	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		05/03/19 18:56	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		05/03/19 18:56	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		05/03/19 18:56	108-67-8	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		05/03/19 18:56	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		05/03/19 18:56	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		05/03/19 18:56	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		05/03/19 18:56	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 18:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/03/19 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/03/19 18:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/03/19 18:56	2037-26-5	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: MW-1-050219 **Lab ID: 35465452002** Collected: 05/02/19 10:38 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:50	7440-43-9	
Chromium	**1.4**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:50	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:50	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:50	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: MW-3-050219 **Lab ID: 35465452003** Collected: 05/02/19 10:04 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:52	7440-43-9	
Chromium	**0.79 I**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:52	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	05/03/19 09:28	05/04/19 11:52	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	05/03/19 09:28	05/04/19 11:52	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: Trip Blank **Lab ID: 35465452004** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.8 I**	ug/L	20.0	5.3	1		05/03/19 12:50	67-64-1	
Acetonitrile	**24.5 U**	ug/L	40.0	24.5	1		05/03/19 12:50	75-05-8	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 12:50	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		05/03/19 12:50	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		05/03/19 12:50	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		05/03/19 12:50	75-25-2	
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		05/03/19 12:50	74-83-9	J(v2)
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		05/03/19 12:50	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		05/03/19 12:50	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		05/03/19 12:50	56-23-5	J(v2)
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		05/03/19 12:50	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		05/03/19 12:50	75-00-3	J(L1), J(v1)
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		05/03/19 12:50	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		05/03/19 12:50	74-87-3	
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		05/03/19 12:50	96-12-8	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		05/03/19 12:50	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		05/03/19 12:50	106-93-4	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		05/03/19 12:50	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		05/03/19 12:50	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		05/03/19 12:50	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		05/03/19 12:50	110-57-6	J(v2)
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		05/03/19 12:50	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 12:50	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 12:50	540-59-0	N2
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 12:50	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 12:50	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		05/03/19 12:50	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		05/03/19 12:50	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		05/03/19 12:50	10061-01-5	J(v2)
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		05/03/19 12:50	10061-02-6	J(v2)
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 12:50	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		05/03/19 12:50	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		05/03/19 12:50	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 12:50	98-82-8	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		05/03/19 12:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		05/03/19 12:50	108-10-1	J(v2)
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		05/03/19 12:50	1634-04-4	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		05/03/19 12:50	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		05/03/19 12:50	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		05/03/19 12:50	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		05/03/19 12:50	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		05/03/19 12:50	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 12:50	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		05/03/19 12:50	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		05/03/19 12:50	79-01-6	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35465452

Sample: Trip Blank **Lab ID: 35465452004** Collected: 05/02/19 09:28 Received: 05/02/19 17:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		05/03/19 12:50	75-69-4	
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		05/03/19 12:50	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		05/03/19 12:50	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		05/03/19 12:50	108-67-8	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		05/03/19 12:50	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		05/03/19 12:50	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		05/03/19 12:50	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		05/03/19 12:50	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		05/03/19 12:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/03/19 12:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/03/19 12:50	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/03/19 12:50	2037-26-5	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

QC Batch: 535904 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 35465452001, 35465452002, 35465452003

METHOD BLANK: 2903212 Matrix: Water
Associated Lab Samples: 35465452001, 35465452002, 35465452003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	05/04/19 11:22	
Chromium	ug/L	0.50 U	1.0	0.50	05/04/19 11:22	
Lead	ug/L	0.50 U	1.0	0.50	05/04/19 11:22	
Silver	ug/L	0.050 U	0.10	0.050	05/04/19 11:22	

LABORATORY CONTROL SAMPLE: 2903213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	5.3	105	85-115	
Chromium	ug/L	50	50.3	101	85-115	
Lead	ug/L	50	51.6	103	85-115	
Silver	ug/L	5	5.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2903214 2903215

Parameter	Units	35465511001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	5.2	5.1	104	102	70-130	1	20	
Chromium	ug/L	0.50 U	50	50	50.8	50.3	101	100	70-130	1	20	
Lead	ug/L	0.50 U	50	50	50.0	49.7	100	99	70-130	1	20	
Silver	ug/L	0.050 U	5	5	5.2	5.2	104	103	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2903216 2903217

Parameter	Units	35465267002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.11	5	5	5.4	5.4	106	105	70-130	0	20	
Chromium	ug/L	0.95 I	50	50	52.7	52.2	104	103	70-130	1	20	
Lead	ug/L	1.4	50	50	51.8	51.8	101	101	70-130	0	20	
Silver	ug/L	0.071 I	5	5	5.4	5.5	107	108	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

QC Batch: 535969
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 35465452001, 35465452004

METHOD BLANK: 2903460
Matrix: Water
Associated Lab Samples: 35465452001, 35465452004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	05/03/19 11:12	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	05/03/19 11:12	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	05/03/19 11:12	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	05/03/19 11:12	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	05/03/19 11:12	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	05/03/19 11:12	
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	05/03/19 11:12	
1,2,4-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	05/03/19 11:12	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	5.0	1.9	05/03/19 11:12	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	1.0	0.31	05/03/19 11:12	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	05/03/19 11:12	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	05/03/19 11:12	
1,2-Dichloroethene (Total)	ug/L	0.27 U	1.0	0.27	05/03/19 11:12	N2
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	05/03/19 11:12	
1,3,5-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	05/03/19 11:12	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	05/03/19 11:12	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	05/03/19 11:12	
2-Hexanone	ug/L	0.85 U	10.0	0.85	05/03/19 11:12	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	05/03/19 11:12	J(v2)
Acetone	ug/L	5.3 U	20.0	5.3	05/03/19 11:12	
Acetonitrile	ug/L	24.5 U	40.0	24.5	05/03/19 11:12	
Benzene	ug/L	0.30 U	1.0	0.30	05/03/19 11:12	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	05/03/19 11:12	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	05/03/19 11:12	
Bromoform	ug/L	2.6 U	3.0	2.6	05/03/19 11:12	
Bromomethane	ug/L	4.0 U	5.0	4.0	05/03/19 11:12	J(v2)
Carbon disulfide	ug/L	0.45 U	10.0	0.45	05/03/19 11:12	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	05/03/19 11:12	J(v2)
Chlorobenzene	ug/L	0.35 U	1.0	0.35	05/03/19 11:12	
Chloroethane	ug/L	3.7 U	10.0	3.7	05/03/19 11:12	J(v1)
Chloroform	ug/L	0.32 U	1.0	0.32	05/03/19 11:12	
Chloromethane	ug/L	0.97 U	1.0	0.97	05/03/19 11:12	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	05/03/19 11:12	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	05/03/19 11:12	J(v2)
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	05/03/19 11:12	
Dibromomethane	ug/L	0.68 U	2.0	0.68	05/03/19 11:12	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	05/03/19 11:12	
Iodomethane	ug/L	9.3 U	10.0	9.3	05/03/19 11:12	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	05/03/19 11:12	
m&p-Xylene	ug/L	2.1 U	4.0	2.1	05/03/19 11:12	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	05/03/19 11:12	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

METHOD BLANK: 2903460 Matrix: Water
Associated Lab Samples: 35465452001, 35465452004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	2.0 U	5.0	2.0	05/03/19 11:12	
o-Xylene	ug/L	0.27 U	1.0	0.27	05/03/19 11:12	
Styrene	ug/L	0.26 U	1.0	0.26	05/03/19 11:12	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	05/03/19 11:12	
Toluene	ug/L	0.33 U	1.0	0.33	05/03/19 11:12	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	05/03/19 11:12	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	05/03/19 11:12	J(v2)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	05/03/19 11:12	J(v2)
Trichloroethene	ug/L	0.36 U	1.0	0.36	05/03/19 11:12	
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	05/03/19 11:12	
Vinyl acetate	ug/L	0.19 U	10.0	0.19	05/03/19 11:12	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	05/03/19 11:12	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	05/03/19 11:12	
1,2-Dichloroethane-d4 (S)	%	100	70-130		05/03/19 11:12	
4-Bromofluorobenzene (S)	%	98	70-130		05/03/19 11:12	
Toluene-d8 (S)	%	100	70-130		05/03/19 11:12	

LABORATORY CONTROL SAMPLE: 2903461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	18.7	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	92	68-125	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	70-130	
1,1-Dichloroethene	ug/L	20	19.1	95	66-133	
1,2,3-Trichloropropane	ug/L	20	18.1	91	62-127	
1,2,4-Trimethylbenzene	ug/L	20	19.1	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.2	81	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	18.8	94	70-130	
1,2-Dichlorobenzene	ug/L	20	17.4	87	70-130	
1,2-Dichloroethane	ug/L	20	16.9	84	70-130	
1,2-Dichloroethene (Total)	ug/L	40	35.8	90	70-130	N2
1,2-Dichloropropane	ug/L	20	18.2	91	70-130	
1,3,5-Trimethylbenzene	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	17.9	90	70-130	
2-Butanone (MEK)	ug/L	40	33.8	85	47-143	
2-Hexanone	ug/L	40	32.7	82	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	32.0	80	57-132	J(v3)
Acetone	ug/L	40	37.1	93	46-148	
Acetonitrile	ug/L	200	193	97	33-175	
Benzene	ug/L	20	18.3	92	70-130	
Bromochloromethane	ug/L	20	17.0	85	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

LABORATORY CONTROL SAMPLE: 2903461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	16.4	82	49-126	
Bromomethane	ug/L	20	14.0	70	10-165	J(v3)
Carbon disulfide	ug/L	20	20.1	100	60-141	
Carbon tetrachloride	ug/L	20	16.2	81	63-126	J(v3)
Chlorobenzene	ug/L	20	17.8	89	70-130	
Chloroethane	ug/L	20	39.7	199	71-142	J(L1),J(v1)
Chloroform	ug/L	20	18.4	92	70-130	
Chloromethane	ug/L	20	24.0	120	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.3	76	70-130	J(v3)
Dibromochloromethane	ug/L	20	16.8	84	62-118	
Dibromomethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	18.8	94	70-130	
Iodomethane	ug/L	40	10.3	26	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	20	18.9	95	70-130	
m&p-Xylene	ug/L	40	38.7	97	70-130	
Methyl-tert-butyl ether	ug/L	20	18.8	94	64-124	
Methylene Chloride	ug/L	20	18.5	92	65-136	
o-Xylene	ug/L	20	18.5	93	70-130	
Styrene	ug/L	20	18.7	94	70-130	
Tetrachloroethene	ug/L	20	18.1	91	64-134	
Toluene	ug/L	20	18.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	68-127	
trans-1,3-Dichloropropene	ug/L	20	15.5	77	65-121	J(v3)
trans-1,4-Dichloro-2-butene	ug/L	20	15.3	76	42-129	J(v3)
Trichloroethene	ug/L	20	17.6	88	70-130	
Trichlorofluoromethane	ug/L	20	22.1	110	65-135	
Vinyl acetate	ug/L	20	16.0	80	60-144	
Vinyl chloride	ug/L	20	22.3	111	68-131	
Xylene (Total)	ug/L	60	57.2	95	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2903555

Parameter	Units	35465449002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	20.5	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	18.5	93	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	21.1	106	66-133	
1,2,3-Trichloropropane	ug/L	1.1 U	20	15.9	79	62-127	
1,2,4-Trimethylbenzene	ug/L	0.24 U	20	20.9	104	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

MATRIX SPIKE SAMPLE: 2903555

Parameter	Units	35465449002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	20	16.3	81	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	0.29 U	20	18.3	92	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	17.9	89	70-130	
1,2-Dichloroethene (Total)	ug/L	0.27 U	40	39.4	99	70-130	N2
1,2-Dichloropropane	ug/L	0.23 U	20	19.5	98	70-130	
1,3,5-Trimethylbenzene	ug/L	0.24 U	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	7.5 U	40	35.5	89	47-143	
2-Hexanone	ug/L	0.85 U	40	32.4	81	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	32.1	80	57-132	J(v3)
Acetone	ug/L	35.5	40	50.5	38	46-148	J(M1)
Acetonitrile	ug/L	24.5 U	200	192	96	33-175	
Benzene	ug/L	0.30 U	20	19.9	100	70-130	
Bromochloromethane	ug/L	0.37 U	20	18.9	95	70-130	
Bromodichloromethane	ug/L	0.19 U	20	20.3	102	70-130	
Bromoform	ug/L	2.6 U	20	16.2	81	49-126	
Bromomethane	ug/L	4.0 U	20	10.2	51	10-165	J(v3)
Carbon disulfide	ug/L	0.45 U	20	23.0	114	60-141	
Carbon tetrachloride	ug/L	1.1 U	20	17.7	89	63-126	J(v3)
Chlorobenzene	ug/L	0.35 U	20	18.9	94	70-130	
Chloroethane	ug/L	3.7 U	20	41.3	206	71-142	J(M0),J(v1)
Chloroform	ug/L	0.32 U	20	19.5	98	70-130	
Chloromethane	ug/L	0.97 U	20	25.2	126	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	19.4	97	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	15.3	77	70-130	J(v3)
Dibromochloromethane	ug/L	0.45 U	20	16.8	84	62-118	
Dibromomethane	ug/L	0.68 U	20	18.1	90	70-130	
Ethylbenzene	ug/L	0.30 U	20	20.1	101	70-130	
Iodomethane	ug/L	9.3 U	40	13.9	35	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	21.1	106	70-130	
m&p-Xylene	ug/L	2.1 U	40	41.1	103	70-130	
Methyl-tert-butyl ether	ug/L	0.51 U	20	18.6	93	64-124	
Methylene Chloride	ug/L	2.0 U	20	18.7	94	65-136	
o-Xylene	ug/L	0.27 U	20	20.0	100	70-130	
Styrene	ug/L	0.26 U	20	19.4	97	70-130	
Tetrachloroethene	ug/L	0.38 U	20	18.6	93	64-134	
Toluene	ug/L	0.33 U	20	19.7	98	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	20.0	100	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	15.8	79	65-121	J(v3)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	14.5	72	42-129	J(v3)
Trichloroethene	ug/L	0.36 U	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	23.7	118	65-135	
Vinyl acetate	ug/L	0.19 U	20	15.3	76	60-144	
Vinyl chloride	ug/L	0.39 U	20	23.9	120	68-131	
Xylene (Total)	ug/L	2.1 U	60	61.1	102	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

MATRIX SPIKE SAMPLE: 2903555

Parameter	Units	35465449002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2903554

Parameter	Units	35465449001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2,4-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	1.9 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	0.31 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloroethene (Total)	ug/L	0.27 U	0.27 U		40	N2
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	J(v2)
Acetone	ug/L	9.6 I	12.4 I		40	
Acetonitrile	ug/L	24.5 U	24.5 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	2.6 U	2.6 U		40	
Bromomethane	ug/L	4.0 U	4.0 U		40	J(v2)
Carbon disulfide	ug/L	0.45 U	0.45 U		40	
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	J(v2)
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	J(v1)
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.97 U	0.97 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	J(v2)
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	0.30 U		40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

SAMPLE DUPLICATE: 2903554

Parameter	Units	35465449001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	2.1 U	2.1 U		40	
Methyl-tert-butyl ether	ug/L	0.51 U	0.51 U		40	
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
o-Xylene	ug/L	0.27 U	0.27 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	J(v2)
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	J(v2)
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	98	97		40	
4-Bromofluorobenzene (S)	%	101	99		40	
Toluene-d8 (S)	%	103	103		40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

QC Batch: 536089
Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510
Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35465452001

METHOD BLANK: 2904132
Matrix: Water
Associated Lab Samples: 35465452001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	05/07/19 08:51	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	05/07/19 08:51	
Acenaphthene	ug/L	0.040 U	0.50	0.040	05/07/19 08:51	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	05/07/19 08:51	
Anthracene	ug/L	0.043 U	0.50	0.043	05/07/19 08:51	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	05/07/19 08:51	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	05/07/19 08:51	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	05/07/19 08:51	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	05/07/19 08:51	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	05/07/19 08:51	
Chrysene	ug/L	0.026 U	0.50	0.026	05/07/19 08:51	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	05/07/19 08:51	
Fluoranthene	ug/L	0.018 U	0.50	0.018	05/07/19 08:51	
Fluorene	ug/L	0.088 U	0.50	0.088	05/07/19 08:51	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	05/07/19 08:51	
Naphthalene	ug/L	0.29 U	2.0	0.29	05/07/19 08:51	
Phenanthrene	ug/L	0.16 U	0.50	0.16	05/07/19 08:51	
Pyrene	ug/L	0.032 U	0.50	0.032	05/07/19 08:51	
2-Fluorobiphenyl (S)	%	69	33-82		05/07/19 08:51	
p-Terphenyl-d14 (S)	%	82	49-104		05/07/19 08:51	

LABORATORY CONTROL SAMPLE: 2904133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.3	65	40-96	
2-Methylnaphthalene	ug/L	5	3.4	67	40-94	
Acenaphthene	ug/L	5	3.6	71	42-96	
Acenaphthylene	ug/L	5	3.4	67	39-90	
Anthracene	ug/L	5	3.6	71	46-109	
Benzo(a)anthracene	ug/L	5	4.2	84	50-116	
Benzo(a)pyrene	ug/L	5	3.7	75	48-117	
Benzo(b)fluoranthene	ug/L	5	3.9	77	51-124	
Benzo(g,h,i)perylene	ug/L	5	3.7	75	47-121	
Benzo(k)fluoranthene	ug/L	5	4.1	81	50-125	
Chrysene	ug/L	5	4.3	87	53-122	
Dibenz(a,h)anthracene	ug/L	5	3.8	75	45-123	
Fluoranthene	ug/L	5	3.9	79	52-119	
Fluorene	ug/L	5	3.6	71	44-100	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.8	76	46-121	
Naphthalene	ug/L	5	3.4	68	40-91	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

LABORATORY CONTROL SAMPLE: 2904133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	3.7	73	47-111	
Pyrene	ug/L	5	3.9	77	51-120	
2-Fluorobiphenyl (S)	%			71	33-82	
p-Terphenyl-d14 (S)	%			83	49-104	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905482 2905483

Parameter	Units	35465504003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	39.9	5	5	42.1	42.0	45	42	40-96	0	40	
2-Methylnaphthalene	ug/L	64.2	5	5	66.1	64.9	38	14	40-94	2	40	J(M1)
Acenaphthene	ug/L	0.67	5	5	4.0	4.0	67	66	42-96	1	40	
Acenaphthylene	ug/L	0.030 U	5	5	3.5	3.5	70	70	39-90	0	40	
Anthracene	ug/L	0.099 I	5	5	3.5	3.5	68	67	46-109	1	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	4.0	3.9	80	77	50-116	3	40	
Benzo(a)pyrene	ug/L	0.12 U	5	5	3.6	3.5	71	70	48-117	2	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	3.5	3.5	70	69	51-124	2	40	
Benzo(g,h,i)perylene	ug/L	0.15 U	5	5	3.2	3.1	63	62	47-121	2	40	
Benzo(k)fluoranthene	ug/L	0.16 U	5	5	3.9	3.8	77	76	50-125	2	40	
Chrysene	ug/L	0.026 U	5	5	4.1	3.9	81	78	53-122	4	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	3.3	3.2	66	64	45-123	2	40	
Fluoranthene	ug/L	0.018 U	5	5	3.7	3.6	74	73	52-119	2	40	
Fluorene	ug/L	0.96	5	5	4.3	4.3	67	67	44-100	1	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	3.3	3.3	66	65	46-121	2	40	
Naphthalene	ug/L	18.8	5	5	21.8	22.9	59	82	40-91	5	40	
Phenanthrene	ug/L	0.58	5	5	4.0	4.0	69	68	47-111	1	40	
Pyrene	ug/L	0.075 I	5	5	3.7	3.7	73	72	51-120	2	40	
2-Fluorobiphenyl (S)	%						64	64	33-82			
p-Terphenyl-d14 (S)	%						75	75	49-104			

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

QC Batch: 537070 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Full List MSSV
Associated Lab Samples: 35465452001

METHOD BLANK: 2909706 Matrix: Water
Associated Lab Samples: 35465452001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
1,2-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	05/10/19 10:00	
1,2-Dinitrobenzene	ug/L	1.9 U	6.0	1.9	05/10/19 10:00	
1,2-Diphenylhydrazine	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
1,3-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	05/10/19 10:00	
1,3-Dinitrobenzene	ug/L	1.2 U	8.0	1.2	05/10/19 10:00	
1,4-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	05/10/19 10:00	
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	5.0	1.0	05/10/19 10:00	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	9.0	1.9	05/10/19 10:00	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	4.0	0.23	05/10/19 10:00	
2,4,6-Trichlorophenol	ug/L	0.36 U	2.0	0.36	05/10/19 10:00	
2,4-Dichlorophenol	ug/L	0.34 U	2.0	0.34	05/10/19 10:00	
2,4-Dimethylphenol	ug/L	1.0 U	5.0	1.0	05/10/19 10:00	
2,4-Dinitrophenol	ug/L	2.6 U	20.0	2.6	05/10/19 10:00	
2,4-Dinitrotoluene	ug/L	0.27 U	4.0	0.27	05/10/19 10:00	
2,6-Dinitrotoluene	ug/L	0.28 U	2.0	0.28	05/10/19 10:00	
2-Chloronaphthalene	ug/L	0.34 U	5.0	0.34	05/10/19 10:00	
2-Chlorophenol	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	5.0	0.30	05/10/19 10:00	
2-Nitroaniline	ug/L	1.3 U	5.0	1.3	05/10/19 10:00	
2-Nitrophenol	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
3&4-Methylphenol(m&p Cresol)	ug/L	0.22 U	10.0	0.22	05/10/19 10:00	
3,3'-Dichlorobenzidine	ug/L	1.0 U	10.0	1.0	05/10/19 10:00	
3-Nitroaniline	ug/L	1.3 U	5.0	1.3	05/10/19 10:00	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	20.0	4.6	05/10/19 10:00	
4-Bromophenylphenyl ether	ug/L	1.7 U	5.0	1.7	05/10/19 10:00	
4-Chloro-3-methylphenol	ug/L	5.4 U	20.0	5.4	05/10/19 10:00	
4-Chloroaniline	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
4-Chlorophenylphenyl ether	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
4-Nitroaniline	ug/L	0.19 U	4.0	0.19	05/10/19 10:00	
4-Nitrophenol	ug/L	2.0 U	20.0	2.0	05/10/19 10:00	
Aniline	ug/L	0.94 U	5.0	0.94	05/10/19 10:00	
Benzidine	ug/L	0.87 U	25.0	0.87	05/10/19 10:00	
Benzyl alcohol	ug/L	1.3 U	5.0	1.3	05/10/19 10:00	
bis(2-Chloroethoxy)methane	ug/L	1.6 U	5.0	1.6	05/10/19 10:00	
bis(2-Chloroethyl) ether	ug/L	0.34 U	4.0	0.34	05/10/19 10:00	
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	6.0	1.8	05/10/19 10:00	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	5.0	1.1	05/10/19 10:00	
Butylbenzylphthalate	ug/L	1.1 U	5.0	1.1	05/10/19 10:00	
Caprolactam	ug/L	0.40 U	5.0	0.40	05/10/19 10:00	N2
Carbazole	ug/L	1.1 U	5.0	1.1	05/10/19 10:00	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

METHOD BLANK: 2909706 Matrix: Water
Associated Lab Samples: 35465452001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Di-n-butylphthalate	ug/L	1.1 U	5.0	1.1	05/10/19 10:00	
Di-n-octylphthalate	ug/L	0.92 U	5.0	0.92	05/10/19 10:00	
Dibenzofuran	ug/L	1.5 U	5.0	1.5	05/10/19 10:00	
Diethylphthalate	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
Dimethylphthalate	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
Hexachloro-1,3-butadiene	ug/L	0.35 U	2.0	0.35	05/10/19 10:00	
Hexachlorobenzene	ug/L	0.29 U	1.0	0.29	05/10/19 10:00	
Hexachlorocyclopentadiene	ug/L	3.4 U	11.0	3.4	05/10/19 10:00	
Hexachloroethane	ug/L	1.4 U	5.0	1.4	05/10/19 10:00	
Isophorone	ug/L	1.7 U	5.0	1.7	05/10/19 10:00	
N-Nitroso-di-n-propylamine	ug/L	0.33 U	4.0	0.33	05/10/19 10:00	
N-Nitrosodimethylamine	ug/L	0.20 U	2.0	0.20	05/10/19 10:00	
N-Nitrosodiphenylamine	ug/L	1.2 U	5.0	1.2	05/10/19 10:00	
Nitrobenzene	ug/L	0.37 U	4.0	0.37	05/10/19 10:00	
Pentachlorophenol	ug/L	1.6 U	20.0	1.6	05/10/19 10:00	
Phenol	ug/L	0.63 U	5.0	0.63	05/10/19 10:00	
Pyridine	ug/L	1.1 U	5.0	1.1	05/10/19 10:00	
2,4,6-Tribromophenol (S)	%	43	10-126		05/10/19 10:00	
2-Fluorobiphenyl (S)	%	34	10-96		05/10/19 10:00	
2-Fluorophenol (S)	%	19	10-55		05/10/19 10:00	
Nitrobenzene-d5 (S)	%	34	10-94		05/10/19 10:00	
p-Terphenyl-d14 (S)	%	68	24-129		05/10/19 10:00	
Phenol-d5 (S)	%	16	10-35		05/10/19 10:00	

LABORATORY CONTROL SAMPLE: 2909707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	24.0	48	33-89	
1,2-Dichlorobenzene	ug/L	50	23.2	46	30-85	
1,2-Dinitrobenzene	ug/L	50	33.4	67	55-111	
1,2-Diphenylhydrazine	ug/L	50	26.0	52	49-106	
1,3-Dichlorobenzene	ug/L	50	22.6	45	28-83	
1,3-Dinitrobenzene	ug/L	50	33.8	68	55-114	
1,4-Dichlorobenzene	ug/L	50	23.0	46	26-87	
2,3,4,6-Tetrachlorophenol	ug/L	50	28.4	57	56-108	
2,3,5,6-Tetrachlorophenol	ug/L	50	30.0	60	57-108	N2
2,4,5-Trichlorophenol	ug/L	50	28.6	57	46-111	
2,4,6-Trichlorophenol	ug/L	50	28.0	56	45-108	
2,4-Dichlorophenol	ug/L	50	26.2	52	46-94	
2,4-Dimethylphenol	ug/L	50	24.9	50	44-92	
2,4-Dinitrophenol	ug/L	50	36.8	74	49-123	
2,4-Dinitrotoluene	ug/L	50	33.7	67	47-120	
2,6-Dinitrotoluene	ug/L	50	31.9	64	57-107	
2-Chloronaphthalene	ug/L	50	24.9	50	39-98	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

LABORATORY CONTROL SAMPLE: 2909707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorophenol	ug/L	50	22.8	46	35-83	
2-Methylphenol(o-Cresol)	ug/L	50	23.3	47	29-84	
2-Nitroaniline	ug/L	50	31.8	64	56-107	
2-Nitrophenol	ug/L	50	29.9	60	43-96	
3&4-Methylphenol(m&p Cresol)	ug/L	50	22.7	45	26-82	
3,3'-Dichlorobenzidine	ug/L	50	29.0	58	61-113	J(L2)
3-Nitroaniline	ug/L	50	28.4	57	56-104	
4,6-Dinitro-2-methylphenol	ug/L	50	39.2	78	51-131	
4-Bromophenylphenyl ether	ug/L	50	28.9	58	51-105	
4-Chloro-3-methylphenol	ug/L	50	26.8	54	51-98	
4-Chloroaniline	ug/L	50	26.1	52	50-92	
4-Chlorophenylphenyl ether	ug/L	50	26.8	54	48-103	
4-Nitroaniline	ug/L	50	31.9	64	61-108	
4-Nitrophenol	ug/L	50	11.6 I	23	10-61	
Aniline	ug/L	50	24.0	48	33-88	
Benzidine	ug/L	50	14.0 I	28	10-110	
Benzyl alcohol	ug/L	50	22.2	44	35-78	
bis(2-Chloroethoxy)methane	ug/L	50	25.4	51	43-94	
bis(2-Chloroethyl) ether	ug/L	50	23.9	48	34-90	
bis(2-Chloroisopropyl) ether	ug/L	50	22.9	46	26-96	
bis(2-Ethylhexyl)phthalate	ug/L	50	23.4	47	28-125	
Butylbenzylphthalate	ug/L	50	28.3	57	54-116	
Caprolactam	ug/L	50	8.6	17	10-36	N2
Carbazole	ug/L	50	28.4	57	58-109	J(L2)
Di-n-butylphthalate	ug/L	50	28.1	56	57-113	J(L2)
Di-n-octylphthalate	ug/L	50	23.9	48	28-124	
Dibenzofuran	ug/L	50	27.0	54	47-101	
Diethylphthalate	ug/L	50	28.3	57	57-107	
Dimethylphthalate	ug/L	50	27.9	56	56-104	
Hexachloro-1,3-butadiene	ug/L	50	23.4	47	25-95	
Hexachlorobenzene	ug/L	50	26.6	53	44-111	
Hexachlorocyclopentadiene	ug/L	50	21.6	43	10-126	
Hexachloroethane	ug/L	50	22.2	44	21-87	
Isophorone	ug/L	50	25.6	51	46-95	
N-Nitroso-di-n-propylamine	ug/L	50	25.3	51	44-92	
N-Nitrosodimethylamine	ug/L	50	16.4	33	18-64	
N-Nitrosodiphenylamine	ug/L	50	27.3	55	53-105	
Nitrobenzene	ug/L	50	25.3	51	36-95	
Pentachlorophenol	ug/L	50	30.9	62	45-127	
Phenol	ug/L	50	11.6	23	10-44	
Pyridine	ug/L	50	12.5	25	10-57	
2,4,6-Tribromophenol (S)	%			64	10-126	
2-Fluorobiphenyl (S)	%			53	10-96	
2-Fluorophenol (S)	%			26	10-55	
Nitrobenzene-d5 (S)	%			51	10-94	
p-Terphenyl-d14 (S)	%			56	24-129	
Phenol-d5 (S)	%			22	10-35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2909708 2909709

Parameter	Units	35465452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	1.4 U	48.1	47.9	12.9	14.6	27	30	33-89	13	40	J(M1)
1,2-Dichlorobenzene	ug/L	1.5 U	48.1	47.9	12.8	13.8	27	29	30-85	8	40	J(M1)
1,2-Dinitrobenzene	ug/L	1.8 U	48.1	47.9	30.5	35.1	63	73	55-111	14	40	
1,2-Diphenylhydrazine	ug/L	1.3 U	48.1	47.9	22.2	25.3	46	53	49-106	13	40	J(M1)
1,3-Dichlorobenzene	ug/L	1.5 U	48.1	47.9	12.4	13.2	26	28	28-83	7	40	J(M1)
1,3-Dinitrobenzene	ug/L	1.1 U	48.1	47.9	31.1	35.2	65	73	55-114	12	40	
1,4-Dichlorobenzene	ug/L	1.5 U	48.1	47.9	12.5	13.5	26	28	26-87	8	40	
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	48.1	47.9	26.3	30.7	55	64	56-108	16	40	J(M1)
2,3,5,6-Tetrachlorophenol	ug/L	1.8 U	48.1	47.9	28.7	31.8	60	66	57-108	10	40	N2
2,4,5-Trichlorophenol	ug/L	0.22 U	48.1	47.9	23.6	27.3	49	57	46-111	15	40	
2,4,6-Trichlorophenol	ug/L	0.35 U	48.1	47.9	20.8	24.5	43	51	45-108	16	40	J(M1)
2,4-Dichlorophenol	ug/L	0.33 U	48.1	47.9	15.9	18.7	33	39	46-94	16	40	J(M1)
2,4-Dimethylphenol	ug/L	0.99 U	48.1	47.9	15.9	18.9	33	39	44-92	17	40	J(M1)
2,4-Dinitrophenol	ug/L	2.5 U	48.1	47.9	36.3	39.4	76	82	49-123	8	40	
2,4-Dinitrotoluene	ug/L	0.26 U	48.1	47.9	32.1	35.4	67	74	47-120	10	40	
2,6-Dinitrotoluene	ug/L	0.27 U	48.1	47.9	28.0	31.8	58	66	57-107	13	40	
2-Chloronaphthalene	ug/L	0.33 U	48.1	47.9	15.8	19.1	33	40	39-98	19	40	J(M1)
2-Chlorophenol	ug/L	1.3 U	48.1	47.9	12.2	13.6	25	28	35-83	11	40	J(M1)
2-Methylphenol(o-Cresol)	ug/L	0.29 U	48.1	47.9	12.5	15.3	26	32	29-84	20	40	J(M1)
2-Nitroaniline	ug/L	1.2 U	48.1	47.9	27.0	31.9	56	67	56-107	16	40	
2-Nitrophenol	ug/L	1.3 U	48.1	47.9	16.4	19.0	34	40	43-96	15	40	J(M1)
3&4-Methylphenol(m&p Cresol)	ug/L	0.21 U	48.1	47.9	11.7	15.0	24	31	26-82	24	40	J(M1)
3,3'-Dichlorobenzidine	ug/L	1.0 U	48.1	47.9	27.8	29.1	58	61	61-113	5	40	J(M0)
3-Nitroaniline	ug/L	1.2 U	48.1	47.9	27.2	29.8	57	62	56-104	9	40	
4,6-Dinitro-2-methylphenol	ug/L	4.4 U	48.1	47.9	39.1	42.2	81	88	51-131	8	40	
4-Bromophenylphenyl ether	ug/L	1.6 U	48.1	47.9	25.4	29.2	53	61	51-105	14	40	
4-Chloro-3-methylphenol	ug/L	5.2 U	48.1	47.9	20.3	24.2	42	51	51-98	18	40	J(M1)
4-Chloroaniline	ug/L	1.4 U	48.1	47.9	19.4	21.8	40	45	50-92	12	40	J(M1)
4-Chlorophenylphenyl ether	ug/L	1.4 U	48.1	47.9	21.9	26.0	46	54	48-103	17	40	J(M1)
4-Nitroaniline	ug/L	0.18 U	48.1	47.9	31.8	34.4	66	72	61-108	8	40	
4-Nitrophenol	ug/L	1.9 U	48.1	47.9	11.3 I	12.0 I	24	25	10-61		40	
Aniline	ug/L	0.90 U	48.1	47.9	17.5	17.4	36	36	33-88	0	40	
Benzidine	ug/L	0.84 U	48.1	47.9	12.6 I	11.2 I	26	23	10-110		40	
Benzyl alcohol	ug/L	1.2 U	48.1	47.9	13.0	14.7	27	31	35-78	12	40	J(M1)
bis(2-Chloroethoxy)methane	ug/L	1.6 U	48.1	47.9	14.0	17.2	29	36	43-94	21	40	J(M1)
bis(2-Chloroethyl) ether	ug/L	0.33 U	48.1	47.9	12.8	13.8	27	29	34-90	8	40	J(M1)
bis(2-Chloroisopropyl) ether	ug/L	1.7 U	48.1	47.9	12.4	13.3	26	28	26-96	7	40	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	48.1	47.9	24.5	26.2	51	55	28-125	7	40	
Butylbenzylphthalate	ug/L	1.1 U	48.1	47.9	29.0	31.2	60	65	54-116	7	40	
Caprolactam	ug/L	0.38 U	48.1	47.9	6.9	7.8	14	16	10-36	12	40	N2
Carbazole	ug/L	1.1 U	48.1	47.9	29.0	30.5	60	64	58-109	5	40	
Di-n-butylphthalate	ug/L	1.0 U	48.1	47.9	28.6	30.6	60	64	57-113	7	40	
Di-n-octylphthalate	ug/L	0.88 U	48.1	47.9	25.2	26.6	52	56	28-124	5	40	
Dibenzofuran	ug/L	1.4 U	48.1	47.9	20.7	24.6	43	51	47-101	17	40	J(M1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2909708 2909709

Parameter	Units	35465452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diethylphthalate	ug/L	1.4 U	48.1	47.9	26.2	29.4	55	61	57-107	11	40	J(M1)
Dimethylphthalate	ug/L	1.4 U	48.1	47.9	23.8	27.4	50	57	56-104	14	40	J(M1)
Hexachloro-1,3-butadiene	ug/L	0.34 U	48.1	47.9	12.7	14.0	27	29	25-95	10	40	
Hexachlorobenzene	ug/L	0.28 U	48.1	47.9	24.8	28.1	52	59	44-111	13	40	
Hexachlorocyclopentadiene	ug/L	3.3 U	48.1	47.9	11.9	13.5	25	28	10-126	12	40	
Hexachloroethane	ug/L	1.3 U	48.1	47.9	11.8	13.1	25	27	21-87	10	40	
Isophorone	ug/L	1.6 U	48.1	47.9	14.7	17.1	31	36	46-95	15	40	J(M1)
N-Nitroso-di-n-propylamine	ug/L	0.32 U	48.1	47.9	14.3	16.0	30	33	44-92	11	40	J(M1)
N-Nitrosodimethylamine	ug/L	0.19 U	48.1	47.9	9.7	10.2	20	21	18-64	5	40	
N-Nitrosodiphenylamine	ug/L	1.2 U	48.1	47.9	25.2	28.4	52	59	53-105	12	40	J(M1)
Nitrobenzene	ug/L	0.36 U	48.1	47.9	14.0	15.7	29	33	36-95	12	40	J(M1)
Pentachlorophenol	ug/L	1.6 U	48.1	47.9	32.9	35.2	69	73	45-127	7	40	
Phenol	ug/L	0.60 U	48.1	47.9	5.3	6.4	11	13	10-44	19	40	
Pyridine	ug/L	1.1 U	48.1	47.9	9.6	8.7	20	18	10-57	11	40	
2,4,6-Tribromophenol (S)	%						62	69	10-126			
2-Fluorobiphenyl (S)	%						34	41	10-96			
2-Fluorophenol (S)	%						13	14	10-55			
Nitrobenzene-d5 (S)	%						28	32	10-94			
p-Terphenyl-d14 (S)	%						61	66	24-129			
Phenol-d5 (S)	%						10	13	10-35			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35465452

QC Batch: 536525
Analysis Method: FL-PRO
QC Batch Method: EPA 3510
Analysis Description: FL-PRO Water Low Volume
Associated Lab Samples: 35465452001

METHOD BLANK: 2906351
Matrix: Water
Associated Lab Samples: 35465452001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	05/07/19 17:41	
N-Pentatriacontane (S)	%	102	42-159		05/07/19 17:41	
o-Terphenyl (S)	%	93	66-139		05/07/19 17:41	

LABORATORY CONTROL SAMPLE: 2906352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	3.9	77	66-119	
N-Pentatriacontane (S)	%			92	42-159	
o-Terphenyl (S)	%			89	66-139	

MATRIX SPIKE SAMPLE: 2906359

Parameter	Units	35465839001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	0.75 U	4.6	3.4	70	65-123	
N-Pentatriacontane (S)	%				91	42-159	
o-Terphenyl (S)	%				86	66-139	

SAMPLE DUPLICATE: 2906360

Parameter	Units	35465839002 Result	Dup Result	RPD	Max RPD	Qualifiers
Petroleum Range Organics	mg/L	0.75 U	0.73 U		20	
N-Pentatriacontane (S)	%	93	90			
o-Terphenyl (S)	%	88	86			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALIFIERS

Project: Safety Kleen Facility
Pace Project No.: 35465452

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(L2)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Safety Kleen Facility
Pace Project No.: 35465452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35465452001	**MW-2R-050219**	EPA 3510	536525	FL-PRO	536749
35465452001	**MW-2R-050219**	EPA 200.8	535904	EPA 200.8	536000
35465452002	**MW-1-050219**	EPA 200.8	535904	EPA 200.8	536000
35465452003	**MW-3-050219**	EPA 200.8	535904	EPA 200.8	536000
35465452001	**MW-2R-050219**	EPA 3510	536089	EPA 8270 by SIM	536630
35465452001	**MW-2R-050219**	EPA 3510	537070	EPA 8270	537559
35465452001	**MW-2R-050219**	EPA 8260	535969		
35465452004	**Trip Blank**	EPA 8260	535969		

Pace Analytical

CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DC

WO# : 35465452

35465452

Section A
Required Client Information:

Company:	Environmental Consulting & Technology-Tampa
Address:	1408 North Westshore Bllvd
	Tampa, FL 33607
Email:	kmorrison@ectinc.com
Phone:	813-493-0383
Fax:	
Requested Due Date:	

Section B
Required Project Information:

Report To:	Keith Morrison
Copy To:	
Purchase Order #:	
Project Name:	Safety Kleen Facility
Project #:	180212-0200

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	lori.palmer@pacelabs.com,
Pace Profile #:	9321 line 1

age : 1 Of 1

Regulatory Agency	
State / Location	FL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START sample TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION °C	# OF CONTAINERS	Preservatives Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N) 8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Wate	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	Trip BLANK	Residual Chlorine (Y/N)
1	MW-2R -050219	WT		5-2-19	909	5-2-19	928	25.8	14	X	X	X							X	X	X	X	X	X		
2	MW-1 -050219	WT		5-2-19	1035	5-2-19	1038	26.3	1			X										X				
3	MW-3 - 050219	WT		5-2-19	1002	5-2-19	1004	25.5	1			X										X				
4	Trip Blank	WT																							x	
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Empty Containers	Pace	4/25/19	0730	Keith F. Morrison / ECT	4-26-19	1400				
	Keith F. Morrison / ECT	5-2-19	1630	Pace	5-2-19	1630	TL3			
	Pace	5-2-19	1700	/pace	5/2/19	1700	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison / ECT

SIGNATURE of SAMPLER: Keith F Morrison

DATE Signed: 5-2-19

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#:35465452

Project Manager: PM: LAP Due Date: 05/09/19

Client: CLIENT: 37-ECTTAM

Date and Initials of person:
Examining contents: MVL
Label: 5/2/19
Deliver:
pH:

Thermometer Used: T-203 Date: 5/2/19 Time: 1700 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 3.6 **(Visual)** 0.0 **(Correction Factor)** 3.6 **(Actual)** ☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐Yes ☒No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Dry None

Packing Material: ☐Bubble Wrap ☒ Bubble Bags ☐None ☐Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☒Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☒Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☒Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☒Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☒ No ☐N/A	
Sufficient Volume	☒Yes ☐ No ☐N/A	
Correct Containers Used	☒Yes ☐ No ☐N/A	
Containers Intact	☒Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒Yes ☐ No ☐N/A	Time on Sample is Start Time
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒Yes ☐ No ☐N/A ☒Yes ☐ No ☐N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☒ No ☐N/A	
Trip Blank Present:	☒Yes ☐ No ☐N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Industrial Waste Operating Report Form (IWORF)

Permit #: IW-333 **Permit Year:** 2019

Facility Name: SAFETY-KLEEN SYSTEMS, INC.

Facility Address: 8755 NW 95 ST
MEDLEY, FL 33178

Contact Name: Mr. Larry Rodriguez

Reports must be mailed to:
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Ct, Suite #700
Miami, FL 33136-3912

Instructions: Indicate which report is being provided by checking off the applicable "Source Type" box(es) from the listing below. In addition, indicate the period being reported and attach the applicable information (e.g. waste manifests, analytical results, etc.) as required by each Source Type. Refer to the operating permit document for more information on reporting and sampling requirements, including analytical methodologies, applicable to the referenced facility.

Reporting Requirements:

☐ Source Type:RR-1 Reporting Frequency: Quarterly Reporting Period ______

Description: Copies of manifests and/or receipts of all hazardous waste, industrial waste, industrial wastewater, sludge and/or ash disposed of. Information shall include name of hauler, volume and final destination. Records shall also be maintained on-site for review.

Sampling Requirements:

☒ Source Type: SMP-1 Reporting Frequency: Annually Reporting Period: 6/15/20

Description: Groundwater from the facility monitoring well(s).

Parameters: Cadmium (Total), Chromium (Total), Lead (Total), Silver (Total)

☒ Source Type: SMP-2 Reporting Frequency: Annually Reporting Period: 6/15/20

Description: Groundwater from monitoring well nearest the containment area stormwater discharge point.

Parameters: EPA Series 8260, EPA Series 8270, TRPH

Average Daily Waste Water Flow Discharge to Sanitary Sewers: ______ Gallons Per Day (GPD)

I hereby certify that, to the best of my knowledge, this document and all attachments are true, accurate and complete.

______ 4/21/20

Authorized Representative or Corporate Officer

Report Completion Date

Environmental Consulting & Technology, Inc.

April 21, 2020
200228-0100

Mr. Michael Montano, Environmental Specialist Supervisor
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, Suite #700
Miami, Florida 33136-3912

Re: **Safety-Kleen Systems, Inc., Medley, Florida**
Industrial Waste Permit No. IW-000333-2019/2020 (File # 10139)
Annual Report of Groundwater Quality

Dear Mr. Montano:

On behalf of Safety-Kleen Systems, Inc. (S-K), this document comprises the Annual Report of Groundwater Quality as required by Specific Condition 16 and the associated sampling requirements in the above-referenced Industrial Waste Annual Operating Permit for S-K's Medley, Florida facility. Environmental Consulting & Technology, Inc. (ECT) completed the annual groundwater sampling at the above-referenced Medley facility in accordance with the facility's permit.

On March 19, 2020, ECT collected groundwater samples from monitoring wells MW-1, MW-2R (a.k.a. MW-2), and MW-3 per the annual SMP-1 requirement, and from monitoring well MW-2R per the annual SMP-2 requirement. The samples from all three wells (for SMP-1) were submitted to Pace Analytical Services, Inc. (PAS) for analyses of the silver, cadmium, chromium, and lead by U.S. Environmental Protection Agency (EPA) Method 200.8. In addition, samples from monitoring well MW-2R (for SMP-2) were also submitted to PAS for analyses of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Florida Petroleum Range Organics (FLPRO). The locations of the facility's groundwater monitoring wells are shown on the enclosed Figure 1.

A peristaltic pump was used to purge and sample the monitoring wells. The field notes, groundwater sampling logs, and equipment calibration forms are provided in Attachment A. The groundwater quality results (laboratory report) are provided in Attachment B.

The laboratory report indicated that concentrations for two of the four metals (i.e., silver and cadmium) were below their respective method detection limits (MDLs) in all three wells sampled per the annual SMP-1 requirements. Chromium was detected at estimated concentrations of 0.68I micrograms per liter (µg/L) at monitoring well MW-1, 0.62I µg/L at monitoring well MW-2R, and 0.91I µg/L at monitoring well MW-3. However, those concentrations were detected between the laboratory MDL and the laboratory practical quantitation limit (PQL) and are well below the groundwater cleanup target level (GCTL) of 100 µg/L for chromium as specified in the permit. Lead was also detected at a concentration of 1.3 µg/L at monitoring well MW-3 but was well below its GCTL of 15 µg/L for lead as specified in the permit.

1408 N Westshore
Blvd, Suite 115
Tampa, FL
33607

(813) 289-9338

FAX
(813) 289-9388

Per the annual SMP-2 requirement at monitoring well MW-2R, the laboratory report indicated the following results for the various analyses of organic parameters:

1. FLPRO concentrations were below the MDL; that is, none was detected.
2. No SVOC was detected (i.e., EPA Series 8270 parameters).
3. No VOC was detected (i.e., EPA Series 8260 parameters).

As such, the observed groundwater quality is compliant with the permit.

If you have any questions regarding this report, please call Jeff Curtis of S-K at (561) 523-4719. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Keith F. Morrison

Gregory B. Page

Keith F. Morrison
Project Manager

Gregory B. Page, P.E.
Senior Engineer III

SAFETY-KLEEN SYSTEMS, INC.

Jeff Curtis
EHS Manager, Florida
Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida 33426
jeff.curtis@safety-kleen.com

Enclosures:
Figure 1
Attachment A – Field Notes, Groundwater Sampling Logs, and Equipment Calibration Logs
Attachment B - Laboratory Report

cc: Robert Schoepke – S-K (electronic only)
Greg Page – ECT (electronic only)
Keith Morrison – ECT (electronic only)
Facility 999 File #1760, % S-K Medley facility Branch General Manager

FIGURE

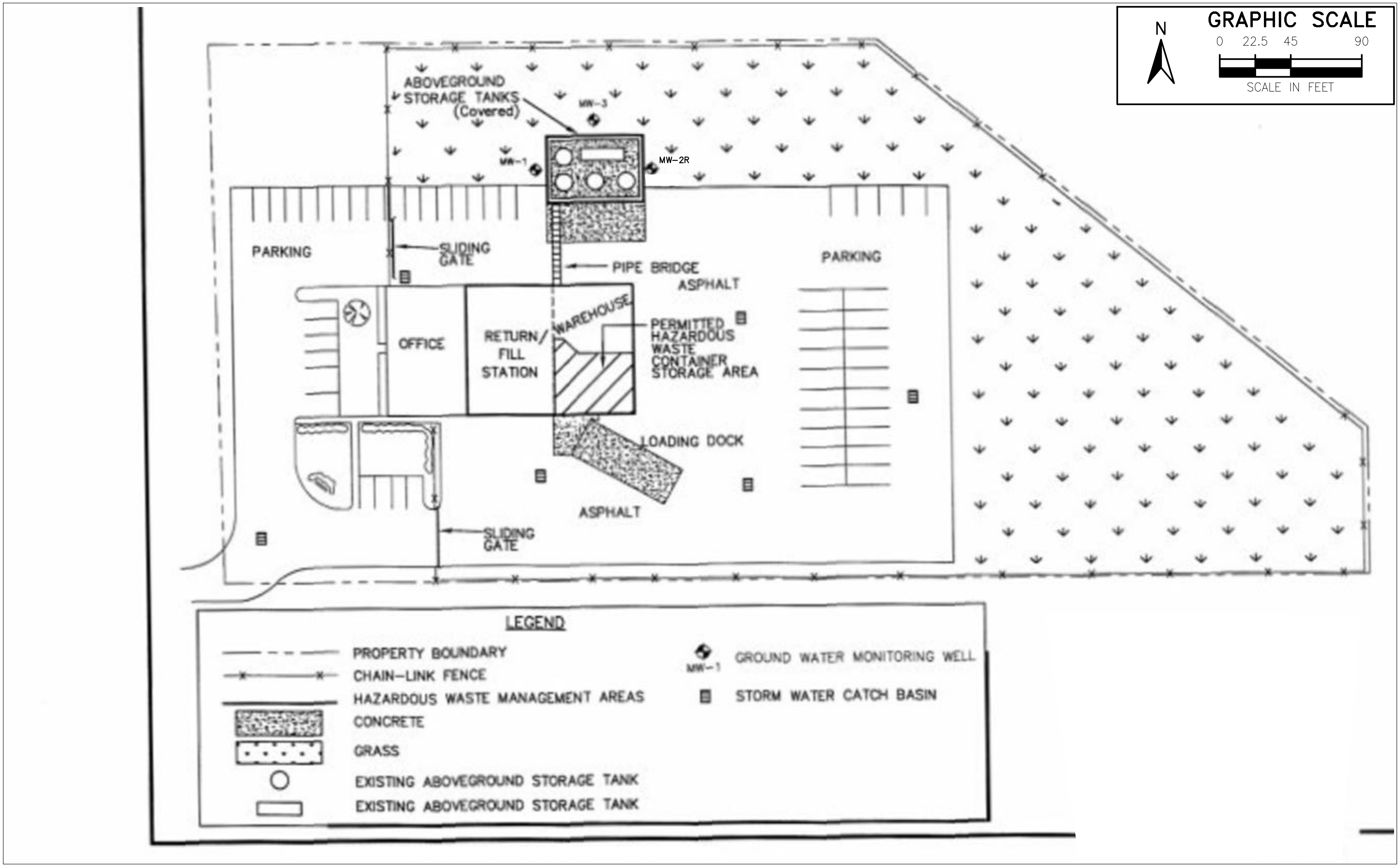

FIGURE 1.

FACILITY LAYOUT AND ACCESS CONTROL FEATURES
SAFETY-KLEEN SYSTEMS, INC. FACILITY
8755 NW 95TH STREET, MEDLEY, FLORIDA

Source: ERM, 2012; ECT, 2020.

ECT Environmental Consulting & Technology, Inc.

T:\PROJECTS\2020\SK Medley\200228\0100\Layout.dwg

4/21/2020 8:36:55 AM by Jeanette Stebnisky

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS, AND EQUIPMENT CALIBRATION LOGS

Safety-Kleen - Annual Groundwater monitoring Event

Location Medley, FL Date 3-18-2020 3.19.2020

Project / Client 200228-0100/ Safety Kleen

3/18/2020

1155 at ECT office, Load T-13

1220 off to Ft. Lauderdale

1640 at Condo in Ft. Lauderdale
Compute = 4.75 hrs

3-19-2020

945 at Condo - calibration check on meters
Load T-13

915 off to Safety-Kleen Medley (SK-MD)

1000 onsite SK-MD - check in at office + got Badge. Go over Health + safety Plan - weather 76°F E wind 5-10 mph.

1012 Open monitoring wells MW-1, MW-2R + MW-3

1021 purging MW-1

1035 purging MW-3 with second peristaltic pump

x 1044 Sampling MW-1

1056 Purging MW-2R with second pump

x 1100 Sampling MW-3 * sediment was went into sample bottle

x 1119 Sampling MW-2R / QA/QC - MS/MSD bottles collected. Put purge water in 5-gallon containers - 2. + give to Safety Kleen

1210 Check out at office / Off to TAMPA

X = Sample time

Annul IW Permit Groundwater Sampling Event

Location Medley, FL | Safety-Kleen Date 3-19-2020

Project / Client 20228-0100 / Safety-Kleen

ECT - Keith Morrison

1630 at PACE Labs in Oldsmar

1655 at ECT TAMPA office.
Unload T-13 calibration check
on meters

1715 Complete = 8.5 hrs.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.
SITE LOCATION: 8755 NW 95th Street, Medley, FL
WELL NO: MW-1
SAMPLE ID: MW-1- 03192020
DATE: 3/19/2020

PURGING DATA

WELL DIAMETER (inches): 2
TUBING DIAMETER (inches): ¼-OD 1/8-ID
WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet
STATIC DEPTH TO WATER (feet): 3.32
PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.2 feet – 3.32 feet) X 0.16 gallons/foot = 1.26 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.3
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.3
PURGING INITIATED AT: 1021
PURGING ENDED AT: 1043
TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/m or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1037	1.28	1.28	0.08	3.60	6.92	23.76	473	0.10	0.79	Clear	None	-138
1040	0.24	1.52	↓	3.60	6.94	23.78	470	0.10	0.83	↓	to slight organic	-147
1043	0.24	1.76	↓	3.60	6.93	23.77	470	0.09	0.92	↓	↓	-148

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison / ECT
SAMPLER(S) SIGNATURE(S): Keith F Morrison
SAMPLING INITIATED AT: 1044
SAMPLING ENDED AT: 1047
PUMP OR TUBING DEPTH IN WELL (feet): 7.3
TUBING MATERIAL CODE: HDPE
FIELD-FILTERED: Y [✓ N]
FILTER SIZE: ____ µm
Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)
DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1-03192020	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate @303

REMARKS: $Q = \frac{0.13\text{ gal}}{97\text{ sec}} \times \frac{60\text{ sec}}{1\text{ min}} = 0.08\text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-2R

SAMPLE ID: MW-2R-0319 2020

DATE: 3/19/2020

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 3.75

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.4 feet – 3.75 feet) X 0.16 gallons/foot = 1.22 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5

PURGING INITIATED AT: 1056

PURGING ENDED AT: 1118

TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1112	1.28	1.28	0.08	3.91	6.97	23.76	532	0.08	8.44	Clear	None	-239
1115	0.24	1.52	↓	3.91	6.96	23.77	528	0.07	6.27	↓	↓	-242
1118	0.24	1.76	↓	3.91	6.97	23.80	522	0.06	5.26			-251
1130									3.07 - metals			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison / ECT

SAMPLER(S) SIGNATURE(S): Keith F. Morrison

SAMPLING INITIATED AT: 1119

SAMPLING ENDED AT: 1140

PUMP OR TUBING DEPTH IN WELL (feet): 4.5

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N]

FILTER SIZE: ____ µm

Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-2R-0319 2020	3	CG	40 ml	HCl+ Ice	NONE	<2	8260-Volatile Organic Compounds by EPA Method 8260	APP	<100
↓	2 1	AG AG	250 ml "	Ice "	NONE "	-- "	8270-Semi-Volatile Organic Compounds by EPA Method 8270	APP "	At purge rate @ 303
↓	1	PE	250 ml	HNO3 + Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate @ 303
↓	2	AG	100 ml	H2SO4 + Ice	NONE	<2	TRPHs by FL-PRO Method	APP	At purge rate @ 303

REMARKS: $Q = \frac{0.13\text{ gal}}{97\text{ sec}} \times \frac{60\text{ sec}}{1\text{ min}} = 0.08$ gpm

QA = MS/MSD bottles also collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

1b

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.
SITE LOCATION: 8755 NW 95th Street, Medley, FL
WELL NO: MW-3
SAMPLE ID: MW-3- 03192020
DATE: 3/19/2020

PURGING DATA

WELL DIAMETER (inches): 2
TUBING DIAMETER (inches): 1/8-ID ¼-OD
WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet
STATIC DEPTH TO WATER (feet): 2.80
PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.6 feet – 2.80 feet) X 0.16 gallons/foot = 1.41 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2
PURGING INITIATED AT: 1035
PURGING ENDED AT: 1059
TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/m or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1053	1.44	1.44	0.08	2.95	6.83	22.72	478	0.10	2.42	clear	None	-188
1056	0.24	1.68	↓	2.95	6.86	22.68	477	0.09	2.30	↓	↓	-193
1059	0.24	1.92	↓	2.95	6.88	22.67	477	0.08	2.23	↓	↓	-197

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F Morrison / ECT
SAMPLER(S) SIGNATURE(S): Keith F Morrison
SAMPLING INITIATED AT: 1100
SAMPLING ENDED AT: 1103
PUMP OR TUBING DEPTH IN WELL (feet): 7.2
TUBING MATERIAL CODE: HDPE
FIELD-FILTERED: Y [✓ N]
FILTER SIZE: _____ µm
Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)
DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3-03192020	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	At purge rate @303

REMARKS: $Q = \frac{0.13\,gal}{96\,sec} \times \frac{60\,sec}{1\,min} = 0.08$ gpm

* piece of sediment came up through tubing and into sample bottle.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
18
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

2019-2020- Industrial Waste
GROUNDWATER SAMLING EVENT

Instrument Calibration and Field Verification Log

Instrument Make: InSitu / YSI Model: SmarTroll / [✓ 556 MPS] Identification: #4 | SN# 04D8023 AP

Sampler's Name / Signature: ECT - KeMF. Morrison | Keith F. Morr Date: (mm/dd/yy) 03/19/2020

Procedure Type: ICV, CCV, Cal		[✓ icv], ccv, cal	icv, [✓ ccv], cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal
Standard Values	Time	945	1655							
pH 4.01 S.U.		4.04	4.06							
pH 7.00 S.U.		7.05	7.04							
pH 10.00 S.U.		10.02	10.03							
Within 0.2 S.U ?		[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?		Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials		KFM	KFM							
Conductivity 500 µS/cm Cal		501	502							
Conductivity 1000 µS/cm Ver		994	992							
Within 5% ?		[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?		Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials		KFM	KFM							
Temperature During D.O.		21 °C	23 °C	°C	°C	°C	°C	°C	°C	°C
D.O. mg/L @ Saturation (%)		8.9 (100.2%)	8.6 (99.8%)							
Within 0.3 mg/L ?		[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?		Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials		KFM	KFM							
Temperature During ORP		21 °C	23 °C	°C	°C	°C	°C	°C	°C	°C
ORP in mV		232	234							
Within 10 mV ?		[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?		Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials		KFM	KFM							

Calibration Solutions	Manufacturer	Lot Number	Expiration Date
pH 4.01 S.U.	Exaxol	190227C	09/2020
pH 7.00 S.U.	Exaxol	190715A	01/2021
pH 10.00 S.U.	Exaxol	181204A	06/2020
Conductivity 500 µS/cm Cal	Exaxol	190715B	07/2020
Conductivity 1000 µS/cm Ver	Exaxol	190227B	04/2020 (03/31/2020)
ORP: mV@°C per mfr. specs.	231 @ 25°C	190715E	07/2020

Notes Cal = Calibration

ICV = Initial Calibration Verification

CCV = Continued Calibration Verification

This form meets or exceeds the requirements of FDEP Form FD 9000-8

P:\A&RDEPT\QA\YSI calibration.xls

SAFETY-KLEEN MEDLEY
2020 ANNUAL GROUNDWATER
SAMPLING EVENT

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HACH 2100Q **INSTRUMENT #** 1/ SN# 16110C053546

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☑ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER ______

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 10 NTUS Lot# A8219
Standard B 20 NTUS Lot# A9222
Standard C 100 NTUS Lot# A8226

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
March 19, 2020	845	A	10 NTUS	9.89	±10%	Yes	INIT	KFm
↓	847	B	20 "	19.9	±8%	Yes	INIT	KFm
	849	C	100 "	101	±6.5%	Yes	INIT	KFm
	1657	A	10 "	9.91	±10%	Yes	Cont	KFm
	1659	B	20 "	19.6	±8%	Yes	Cont	KFm
	1702	C	100 "	102	±6.5%	Yes	Cont	KFm

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A
Required Client Information:

Company: Environmental Consulting & Technology-Tampa
Address: 1408 North Westshore Bllvd
Tampa, FL 33607
Email: kmorrison@ectinc.com
Phone: 813-493-0383 Fax: 813-289-9388
Requested Due Date:

Section B
Required Project Information:

Report To: Keith Morrison
Copy To: 〃
Purchase Order #:
Project Name: Safety Kleen Facility
Project #: 200228-0100

Section C
Invoice Information:

Attention: Keith Morrison
Company Name: ECT
Address: 1408 N. Westshore Blvd # 115
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com,
Pace Profile #: 9321 line 1

Regulatory Agency:

State / Location: FL

Requested Analysis Filtered (Y/N)

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START Sample TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N Analyses Test	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Wate	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	Trip BLANK						Residual Chlorine (Y/N)
1	MW-2R	WT		3/19/20	1119	3/19/20	1140	NA	8	2	2	1	3						X	X	X	X	[illegible]	~~X~~							
2	MW-1	WT		3/19/20	1044	3/19/20	1047		1			1										X									
3	MW-3	WT		3/19/20	1100	3/19/20	1103		1			1										X									
4	Trip Blank	WT		~~3/19/20~~	—	~~3/20~~	—		2																X						
5	QA/QC-MW-2R			3.19.20	1119	3.19.20	1140		6	4	[illegible]												X	X							
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Bottle Kit	Pace	3-16-20	1420	Keith F Morrison / ECT	3-18-2020	1600	TL3			
	Keith F Morrison / ECT	3.19.2020	1630	MP / pace	3/19/20	1630	11.6	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison / ECT
SIGNATURE of SAMPLER: Keith F Morrison
DATE Signed: 3-19-2020

Pace Container Order #628482

Addresses

	Order By :	Ship To :	Return To:
Company	Environmental Consulting &	Environmental Consulting &	Pace Analytical Oldsmar
Contact	Morrison, Keith	Morrison, Keith	Palmer, Lori
Email	kmorrison@ectinc.com	kmorrison@ectinc.com	lori.palmer@pacelabs.com
Address	1408 North Westshore Bllvd	1408 North Westshore Bllvd	110 South Bayview Blvd.
Address 2	Suite 115	Suite 115	
City	Tampa	Tampa	Oldsmar
State / Zip	FL / 33607	FL / 33607	FL / 34677
Phone	813-493-0383	813-493-0383	813-855-1844

Info

Project Name Safety Kleen Facility

Due Date 03/17/2020

Profile 9321 line 1

Quote

Project Manager Palmer, Lori

Return Date

Carrier Pace Courier

Location FL

Trip Blanks

☒ Include Trip Blanks

Bottle Labels

☐ Blank
☐ Pre-Printed No Sample IDs
☒ Pre-Printed With Sample IDs

Bottles

☐ Boxed Cases
☐ Individually Wrapped
☐ Grouped By Sample ID/Matrix

Return Shipping Labels

☐ No Shipper
☐ With Shipper

COC Options

☐ Number of Blanks
☒ Pre-Printed

Misc

☐ Sampling Instructions
☐ Custody Seal
☐ Temp. Blanks
☐ Coolers
☐ Syringes
☐ Extra Bubble Wrap
☐ Short Hold/Rush Stickers
☐ DI Water Liter(s)
☐ USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	8260 Full List	3-40mL vial HCl	3	0		
1	WT	8270 Full list plus PAHs	1L Amber Glass Unpreserved + 250 mL AG unpres	2	0		
1	WT	FL Pro Low Volume for Waters	2-100 ml glass amber H2SO4	2	0		
3	WT	Metals 200.8 Ag,Cd,Cr,Pb	250mL plastic w/HNO3	3	0		
1	WT	8270 Full list plus PAHs MS/MSD	2-1L Amber Glass Unpreserved + 250 mL AG unpres	4	4		
1	WT	FL PRO MS/MSD	100ml glass amber H2SO4	2	2		
1	WT	Trip BLANK	2-40mL HCL	2	2		

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 8:00am-6:00pm unless special arrangements are made with your project manager.
*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date : 03/17/2020
Prepared By: BB
Verified By:

Sample

CLIENT USE (Optional):

Date Rec'd:
Received By:
Verified By:

ATTACHMENT B

LABORATORY REPORT

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

March 25, 2020

Keith Morrison
Environmental Consulting & Techlology
1408 North Westshore Bllvd
Suite 115
Tampa, FL 33607

RE: Project: Safety Kleen Facility
Pace Project No.: 35538498

Dear Keith Morrison:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: A/P, Environmental Consulting & Technology

REPORT OF LABORATORY ANALYSIS

CERTIFICATIONS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

SAMPLE SUMMARY

Project: Safety Kleen Facility
Pace Project No.: 35538498

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35538498001	**MW-2R**	Water	03/19/20 11:40	03/19/20 16:30
35538498002	**MW-1**	Water	03/19/20 10:47	03/19/20 16:30
35538498003	**MW-3**	Water	03/19/20 11:03	03/19/20 16:30
35538498004	**Trip Blank**	Water	03/19/20 00:01	03/19/20 16:30

SAMPLE ANALYTE COUNT

Project: Safety Kleen Facility
Pace Project No.: 35538498

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35538498001	**MW-2R**	FL-PRO	RJR	3
		EPA 200.8	SLG	4
		EPA 8270 by SIM	CB1	20
		EPA 8270	TWB	82
		EPA 8260	MKG	57
35538498002	**MW-1**	EPA 200.8	SLG	4
35538498003	**MW-3**	EPA 200.8	SLG	4
35538498004	**Trip Blank**	EPA 8260	MKG	57

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-2R **Lab ID: 35538498001** Collected: 03/19/20 11:40 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510								
Petroleum Range Organics	**0.78 U**	mg/L	0.97	0.78	1	03/24/20 16:53	03/25/20 01:19		
Surrogates									
o-Terphenyl (S)	85	%	66-139		1	03/24/20 16:53	03/25/20 01:19	84-15-1	
N-Pentatriacontane (S)	100	%	42-159		1	03/24/20 16:53	03/25/20 01:19	630-07-09	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:13	7440-43-9	
Chromium	**0.62 I**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:13	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:13	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:13	7440-22-4	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.040 U**	ug/L	0.50	0.040	1	03/24/20 08:14	03/24/20 20:46	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	03/24/20 08:14	03/24/20 20:46	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	03/24/20 08:14	03/24/20 20:46	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/24/20 08:14	03/24/20 20:46	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/24/20 08:14	03/24/20 20:46	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/24/20 08:14	03/24/20 20:46	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/24/20 08:14	03/24/20 20:46	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/24/20 08:14	03/24/20 20:46	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/24/20 08:14	03/24/20 20:46	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/24/20 08:14	03/24/20 20:46	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	03/24/20 08:14	03/24/20 20:46	206-44-0	
Fluorene	**0.088 U**	ug/L	0.50	0.088	1	03/24/20 08:14	03/24/20 20:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/24/20 08:14	03/24/20 20:46	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	03/24/20 08:14	03/24/20 20:46	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	03/24/20 08:14	03/24/20 20:46	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	03/24/20 08:14	03/24/20 20:46	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	03/24/20 08:14	03/24/20 20:46	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	03/24/20 08:14	03/24/20 20:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	38-92		1	03/24/20 08:14	03/24/20 20:46	321-60-8	
p-Terphenyl-d14 (S)	78	%	54-112		1	03/24/20 08:14	03/24/20 20:46	1718-51-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**0.34 U**	ug/L	4.8	0.34	1	03/20/20 16:59	03/21/20 23:27	83-32-9	
Acenaphthylene	**0.29 U**	ug/L	4.8	0.29	1	03/20/20 16:59	03/21/20 23:27	208-96-8	
Aniline	**0.90 U**	ug/L	4.8	0.90	1	03/20/20 16:59	03/21/20 23:27	62-53-3	
Anthracene	**0.21 U**	ug/L	4.8	0.21	1	03/20/20 16:59	03/21/20 23:27	120-12-7	
Benzidine	**0.83 U**	ug/L	23.9	0.83	1	03/20/20 16:59	03/21/20 23:27	92-87-5	
Benzo(a)anthracene	**0.19 U**	ug/L	4.8	0.19	1	03/20/20 16:59	03/21/20 23:27	56-55-3	
Benzo(a)pyrene	**0.16 U**	ug/L	0.96	0.16	1	03/20/20 16:59	03/21/20 23:27	50-32-8	
Benzo(b)fluoranthene	**0.26 U**	ug/L	1.9	0.26	1	03/20/20 16:59	03/21/20 23:27	205-99-2	
Benzo(g,h,i)perylene	**0.16 U**	ug/L	4.8	0.16	1	03/20/20 16:59	03/21/20 23:27	191-24-2	
Benzo(k)fluoranthene	**0.17 U**	ug/L	3.8	0.17	1	03/20/20 16:59	03/21/20 23:27	207-08-9	
Benzyl alcohol	**1.2 U**	ug/L	4.8	1.2	1	03/20/20 16:59	03/21/20 23:27	100-51-6	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-2R **Lab ID: 35538498001** Collected: 03/19/20 11:40 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
4-Bromophenylphenyl ether	**1.6 U**	ug/L	4.8	1.6	1	03/20/20 16:59	03/21/20 23:27	101-55-3	
Butylbenzylphthalate	**1.1 U**	ug/L	4.8	1.1	1	03/20/20 16:59	03/21/20 23:27	85-68-7	
Caprolactam	**0.38 U**	ug/L	4.8	0.38	1	03/20/20 16:59	03/21/20 23:27	105-60-2	N2
Carbazole	**1.1 U**	ug/L	4.8	1.1	1	03/20/20 16:59	03/21/20 23:27	86-74-8	
4-Chloro-3-methylphenol	**5.2 U**	ug/L	19.2	5.2	1	03/20/20 16:59	03/21/20 23:27	59-50-7	
4-Chloroaniline	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	106-47-8	
bis(2-Chloroethoxy)methane	**1.6 U**	ug/L	4.8	1.6	1	03/20/20 16:59	03/21/20 23:27	111-91-1	
bis(2-Chloroethyl) ether	**0.33 U**	ug/L	3.8	0.33	1	03/20/20 16:59	03/21/20 23:27	111-44-4	
bis(2-Chloroisopropyl) ether	**1.7 U**	ug/L	5.7	1.7	1	03/20/20 16:59	03/21/20 23:27	108-60-1	
2-Chloronaphthalene	**0.33 U**	ug/L	4.8	0.33	1	03/20/20 16:59	03/21/20 23:27	91-58-7	
2-Chlorophenol	**1.3 U**	ug/L	4.8	1.3	1	03/20/20 16:59	03/21/20 23:27	95-57-8	
4-Chlorophenylphenyl ether	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	7005-72-3	
Chrysene	**0.19 U**	ug/L	4.8	0.19	1	03/20/20 16:59	03/21/20 23:27	218-01-9	
Dibenz(a,h)anthracene	**0.17 U**	ug/L	1.9	0.17	1	03/20/20 16:59	03/21/20 23:27	53-70-3	
Dibenzofuran	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	132-64-9	
1,2-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	03/20/20 16:59	03/21/20 23:27	95-50-1	
1,3-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	03/20/20 16:59	03/21/20 23:27	541-73-1	
1,4-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	03/20/20 16:59	03/21/20 23:27	106-46-7	
3,3'-Dichlorobenzidine	**1.0 U**	ug/L	9.6	1.0	1	03/20/20 16:59	03/21/20 23:27	91-94-1	
2,4-Dichlorophenol	**0.33 U**	ug/L	1.9	0.33	1	03/20/20 16:59	03/21/20 23:27	120-83-2	
Diethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	84-66-2	
2,4-Dimethylphenol	**0.99 U**	ug/L	4.8	0.99	1	03/20/20 16:59	03/21/20 23:27	105-67-9	
Dimethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	131-11-3	
Di-n-butylphthalate	**1.0 U**	ug/L	4.8	1.0	1	03/20/20 16:59	03/21/20 23:27	84-74-2	
4,6-Dinitro-2-methylphenol	**4.4 U**	ug/L	19.2	4.4	1	03/20/20 16:59	03/21/20 23:27	534-52-1	
1,2-Dinitrobenzene	**1.8 U**	ug/L	5.7	1.8	1	03/20/20 16:59	03/21/20 23:27	528-29-0	
1,3-Dinitrobenzene	**1.1 U**	ug/L	7.7	1.1	1	03/20/20 16:59	03/21/20 23:27	99-65-0	
2,4-Dinitrophenol	**2.5 U**	ug/L	19.2	2.5	1	03/20/20 16:59	03/21/20 23:27	51-28-5	
2,4-Dinitrotoluene	**0.26 U**	ug/L	3.8	0.26	1	03/20/20 16:59	03/21/20 23:27	121-14-2	
2,6-Dinitrotoluene	**0.27 U**	ug/L	1.9	0.27	1	03/20/20 16:59	03/21/20 23:27	606-20-2	
Di-n-octylphthalate	**0.88 U**	ug/L	4.8	0.88	1	03/20/20 16:59	03/21/20 23:27	117-84-0	
1,2-Diphenylhydrazine	**1.3 U**	ug/L	4.8	1.3	1	03/20/20 16:59	03/21/20 23:27	122-66-7	
bis(2-Ethylhexyl)phthalate	**1.1 U**	ug/L	4.8	1.1	1	03/20/20 16:59	03/21/20 23:27	117-81-7	
Fluoranthene	**0.20 U**	ug/L	4.8	0.20	1	03/20/20 16:59	03/21/20 23:27	206-44-0	
Fluorene	**0.33 U**	ug/L	4.8	0.33	1	03/20/20 16:59	03/21/20 23:27	86-73-7	
Hexachloro-1,3-butadiene	**0.34 U**	ug/L	1.9	0.34	1	03/20/20 16:59	03/21/20 23:27	87-68-3	
Hexachlorobenzene	**0.28 U**	ug/L	0.96	0.28	1	03/20/20 16:59	03/21/20 23:27	118-74-1	
Hexachlorocyclopentadiene	**3.3 U**	ug/L	10.5	3.3	1	03/20/20 16:59	03/21/20 23:27	77-47-4	
Hexachloroethane	**1.3 U**	ug/L	4.8	1.3	1	03/20/20 16:59	03/21/20 23:27	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.16 U**	ug/L	1.9	0.16	1	03/20/20 16:59	03/21/20 23:27	193-39-5	
Isophorone	**1.6 U**	ug/L	4.8	1.6	1	03/20/20 16:59	03/21/20 23:27	78-59-1	
1-Methylnaphthalene	**0.34 U**	ug/L	4.8	0.34	1	03/20/20 16:59	03/21/20 23:27	90-12-0	
2-Methylnaphthalene	**0.27 U**	ug/L	4.8	0.27	1	03/20/20 16:59	03/21/20 23:27	91-57-6	
2-Methylphenol(o-Cresol)	**0.29 U**	ug/L	4.8	0.29	1	03/20/20 16:59	03/21/20 23:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.21 U**	ug/L	9.6	0.21	1	03/20/20 16:59	03/21/20 23:27		
Naphthalene	**0.37 U**	ug/L	4.8	0.37	1	03/20/20 16:59	03/21/20 23:27	91-20-3	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-2R **Lab ID: 35538498001** Collected: 03/19/20 11:40 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
2-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	03/20/20 16:59	03/21/20 23:27	88-74-4	
3-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	03/20/20 16:59	03/21/20 23:27	99-09-2	
4-Nitroaniline	**0.18 U**	ug/L	3.8	0.18	1	03/20/20 16:59	03/21/20 23:27	100-01-6	
Nitrobenzene	**0.35 U**	ug/L	3.8	0.35	1	03/20/20 16:59	03/21/20 23:27	98-95-3	
2-Nitrophenol	**1.3 U**	ug/L	4.8	1.3	1	03/20/20 16:59	03/21/20 23:27	88-75-5	
4-Nitrophenol	**1.9 U**	ug/L	19.2	1.9	1	03/20/20 16:59	03/21/20 23:27	100-02-7	
N-Nitrosodimethylamine	**0.19 U**	ug/L	1.9	0.19	1	03/20/20 16:59	03/21/20 23:27	62-75-9	
N-Nitroso-di-n-propylamine	**0.32 U**	ug/L	3.8	0.32	1	03/20/20 16:59	03/21/20 23:27	621-64-7	
N-Nitrosodiphenylamine	**1.2 U**	ug/L	4.8	1.2	1	03/20/20 16:59	03/21/20 23:27	86-30-6	
Pentachlorophenol	**1.6 U**	ug/L	19.2	1.6	1	03/20/20 16:59	03/21/20 23:27	87-86-5	
Phenanthrene	**0.22 U**	ug/L	4.8	0.22	1	03/20/20 16:59	03/21/20 23:27	85-01-8	
Phenol	**0.60 U**	ug/L	4.8	0.60	1	03/20/20 16:59	03/21/20 23:27	108-95-2	
Pyrene	**0.20 U**	ug/L	4.8	0.20	1	03/20/20 16:59	03/21/20 23:27	129-00-0	
Pyridine	**1.1 U**	ug/L	4.8	1.1	1	03/20/20 16:59	03/21/20 23:27	110-86-1	
2,3,4,6-Tetrachlorophenol	**1.0 U**	ug/L	4.8	1.0	1	03/20/20 16:59	03/21/20 23:27	58-90-2	
2,3,5,6-Tetrachlorophenol	**1.8 U**	ug/L	8.6	1.8	1	03/20/20 16:59	03/21/20 23:27	935-95-5	N2
1,2,4-Trichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	03/20/20 16:59	03/21/20 23:27	120-82-1	
2,4,5-Trichlorophenol	**0.22 U**	ug/L	3.8	0.22	1	03/20/20 16:59	03/21/20 23:27	95-95-4	
2,4,6-Trichlorophenol	**0.34 U**	ug/L	1.9	0.34	1	03/20/20 16:59	03/21/20 23:27	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	40	%	10-94		1	03/20/20 16:59	03/21/20 23:27	4165-60-0	
2-Fluorobiphenyl (S)	48	%	10-96		1	03/20/20 16:59	03/21/20 23:27	321-60-8	
p-Terphenyl-d14 (S)	47	%	24-129		1	03/20/20 16:59	03/21/20 23:27	1718-51-0	
Phenol-d5 (S)	17	%	10-35		1	03/20/20 16:59	03/21/20 23:27	4165-62-2	
2-Fluorophenol (S)	24	%	10-55		1	03/20/20 16:59	03/21/20 23:27	367-12-4	
2,4,6-Tribromophenol (S)	57	%	10-126		1	03/20/20 16:59	03/21/20 23:27	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	**5.3 U**	ug/L	20.0	5.3	1		03/20/20 19:04	67-64-1	
Acetonitrile	**24.5 U**	ug/L	40.0	24.5	1		03/20/20 19:04	75-05-8	J(v1)
Benzene	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 19:04	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		03/20/20 19:04	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		03/20/20 19:04	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		03/20/20 19:04	75-25-2	J(v2)
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		03/20/20 19:04	74-83-9	J(v2)
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		03/20/20 19:04	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		03/20/20 19:04	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		03/20/20 19:04	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		03/20/20 19:04	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		03/20/20 19:04	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		03/20/20 19:04	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		03/20/20 19:04	74-87-3	J(v2)
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		03/20/20 19:04	96-12-8	J(v2)
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		03/20/20 19:04	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		03/20/20 19:04	106-93-4	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		03/20/20 19:04	74-95-3	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-2R **Lab ID: 35538498001** Collected: 03/19/20 11:40 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		03/20/20 19:04	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		03/20/20 19:04	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		03/20/20 19:04	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		03/20/20 19:04	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 19:04	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 19:04	540-59-0	N2
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 19:04	75-35-4	J(v1)
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 19:04	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		03/20/20 19:04	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		03/20/20 19:04	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		03/20/20 19:04	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		03/20/20 19:04	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 19:04	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		03/20/20 19:04	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		03/20/20 19:04	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 19:04	98-82-8	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		03/20/20 19:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		03/20/20 19:04	108-10-1	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/20/20 19:04	1634-04-4	J(v2)
Styrene	**0.26 U**	ug/L	1.0	0.26	1		03/20/20 19:04	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		03/20/20 19:04	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		03/20/20 19:04	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		03/20/20 19:04	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		03/20/20 19:04	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 19:04	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 19:04	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		03/20/20 19:04	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		03/20/20 19:04	75-69-4	J(L1), J(v1)
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		03/20/20 19:04	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		03/20/20 19:04	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		03/20/20 19:04	108-67-8	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		03/20/20 19:04	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		03/20/20 19:04	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		03/20/20 19:04	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		03/20/20 19:04	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 19:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		03/20/20 19:04	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/20/20 19:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/20/20 19:04	2037-26-5	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-1 **Lab ID: 35538498002** Collected: 03/19/20 10:47 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:20	7440-43-9	
Chromium	**0.68 I**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:20	7440-47-3	
Lead	**0.50 U**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:20	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:20	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: MW-3 **Lab ID: 35538498003** Collected: 03/19/20 11:03 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:22	7440-43-9	
Chromium	**0.91 I**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:22	7440-47-3	
Lead	**1.3**	ug/L	1.0	0.50	1	03/20/20 02:14	03/20/20 11:22	7439-92-1	
Silver	**0.050 U**	ug/L	0.10	0.050	1	03/20/20 02:14	03/20/20 11:22	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: Trip Blank **Lab ID: 35538498004** Collected: 03/19/20 00:01 Received: 03/19/20 16:30 Matrix: Water

8260 MSV Analytical Method: EPA 8260

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Acetone	**5.3 U**	ug/L	20.0	5.3	1		03/20/20 14:07	67-64-1	
Acetonitrile	**24.5 U**	ug/L	40.0	24.5	1		03/20/20 14:07	75-05-8	J(v1)
Benzene	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 14:07	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		03/20/20 14:07	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	0.60	0.19	1		03/20/20 14:07	75-27-4	
Bromoform	**2.6 U**	ug/L	3.0	2.6	1		03/20/20 14:07	75-25-2	J(v2)
Bromomethane	**4.0 U**	ug/L	5.0	4.0	1		03/20/20 14:07	74-83-9	J(v2)
2-Butanone (MEK)	**7.5 U**	ug/L	10.0	7.5	1		03/20/20 14:07	78-93-3	
Carbon disulfide	**0.45 U**	ug/L	10.0	0.45	1		03/20/20 14:07	75-15-0	
Carbon tetrachloride	**1.1 U**	ug/L	3.0	1.1	1		03/20/20 14:07	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		03/20/20 14:07	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		03/20/20 14:07	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		03/20/20 14:07	67-66-3	
Chloromethane	**0.97 U**	ug/L	1.0	0.97	1		03/20/20 14:07	74-87-3	J(v2)
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		03/20/20 14:07	96-12-8	J(v2)
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		03/20/20 14:07	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		03/20/20 14:07	106-93-4	
Dibromomethane	**0.68 U**	ug/L	2.0	0.68	1		03/20/20 14:07	74-95-3	
1,2-Dichlorobenzene	**0.29 U**	ug/L	1.0	0.29	1		03/20/20 14:07	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		03/20/20 14:07	106-46-7	
trans-1,4-Dichloro-2-butene	**2.5 U**	ug/L	10.0	2.5	1		03/20/20 14:07	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		03/20/20 14:07	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 14:07	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 14:07	540-59-0	N2
1,1-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 14:07	75-35-4	J(v1)
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 14:07	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		03/20/20 14:07	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		03/20/20 14:07	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		03/20/20 14:07	10061-01-5	
trans-1,3-Dichloropropene	**0.17 U**	ug/L	0.50	0.17	1		03/20/20 14:07	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 14:07	100-41-4	
2-Hexanone	**0.85 U**	ug/L	10.0	0.85	1		03/20/20 14:07	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		03/20/20 14:07	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 14:07	98-82-8	
Methylene Chloride	**2.0 U**	ug/L	5.0	2.0	1		03/20/20 14:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.32 U**	ug/L	10.0	0.32	1		03/20/20 14:07	108-10-1	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/20/20 14:07	1634-04-4	J(v2)
Styrene	**0.26 U**	ug/L	1.0	0.26	1		03/20/20 14:07	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		03/20/20 14:07	630-20-6	
1,1,2,2-Tetrachloroethane	**0.20 U**	ug/L	0.50	0.20	1		03/20/20 14:07	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		03/20/20 14:07	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		03/20/20 14:07	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 14:07	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		03/20/20 14:07	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		03/20/20 14:07	79-01-6	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35538498

Sample: Trip Blank **Lab ID: 35538498004** Collected: 03/19/20 00:01 Received: 03/19/20 16:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		03/20/20 14:07	75-69-4	J(L1), J(v1)
1,2,3-Trichloropropane	**1.1 U**	ug/L	2.0	1.1	1		03/20/20 14:07	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		03/20/20 14:07	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		03/20/20 14:07	108-67-8	
Vinyl acetate	**0.19 U**	ug/L	10.0	0.19	1		03/20/20 14:07	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		03/20/20 14:07	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		03/20/20 14:07	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		03/20/20 14:07	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		03/20/20 14:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/20/20 14:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/20/20 14:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/20/20 14:07	2037-26-5	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

QC Batch: 619475 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 35538498001, 35538498002, 35538498003

METHOD BLANK: 3367371 Matrix: Water
Associated Lab Samples: 35538498001, 35538498002, 35538498003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	03/20/20 10:46	
Chromium	ug/L	0.50 U	1.0	0.50	03/20/20 10:46	
Lead	ug/L	0.50 U	1.0	0.50	03/20/20 10:46	
Silver	ug/L	0.050 U	0.10	0.050	03/20/20 10:46	

LABORATORY CONTROL SAMPLE: 3367372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	5.0	101	85-115	
Chromium	ug/L	50	51.3	103	85-115	
Lead	ug/L	50	51.4	103	85-115	
Silver	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3367373 3367374

Parameter	Units	35538300001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	5.2	5.1	103	102	70-130	1	20	
Chromium	ug/L	0.50 U	50	50	51.8	52.7	103	104	70-130	2	20	
Lead	ug/L	0.50 U	50	50	50.0	50.0	100	100	70-130	0	20	
Silver	ug/L	0.050 U	5	5	5.4	5.2	107	105	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3367375 3367376

Parameter	Units	35538498001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	5.2	5.1	104	102	70-130	2	20	
Chromium	ug/L	0.62 I	50	50	52.7	52.9	104	105	70-130	0	20	
Lead	ug/L	0.50 U	50	50	51.7	50.8	103	102	70-130	2	20	
Silver	ug/L	0.050 U	5	5	5.4	5.3	107	107	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

QC Batch: 619616 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35538498001, 35538498004

METHOD BLANK: 3368154 Matrix: Water
Associated Lab Samples: 35538498001, 35538498004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	03/20/20 12:30	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	03/20/20 12:30	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.50	0.20	03/20/20 12:30	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	03/20/20 12:30	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	03/20/20 12:30	
1,1-Dichloroethene	ug/L	0.27 U	1.0	0.27	03/20/20 12:30	J(v1)
1,2,3-Trichloropropane	ug/L	1.1 U	2.0	1.1	03/20/20 12:30	
1,2,4-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	03/20/20 12:30	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	5.0	1.9	03/20/20 12:30	J(v2)
1,2-Dibromoethane (EDB)	ug/L	0.31 U	1.0	0.31	03/20/20 12:30	
1,2-Dichlorobenzene	ug/L	0.29 U	1.0	0.29	03/20/20 12:30	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	03/20/20 12:30	
1,2-Dichloroethene (Total)	ug/L	0.27 U	1.0	0.27	03/20/20 12:30	N2
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	03/20/20 12:30	
1,3,5-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	03/20/20 12:30	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	03/20/20 12:30	
2-Butanone (MEK)	ug/L	7.5 U	10.0	7.5	03/20/20 12:30	
2-Hexanone	ug/L	0.85 U	10.0	0.85	03/20/20 12:30	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	10.0	0.32	03/20/20 12:30	
Acetone	ug/L	5.3 U	20.0	5.3	03/20/20 12:30	
Acetonitrile	ug/L	24.5 U	40.0	24.5	03/20/20 12:30	J(v1)
Benzene	ug/L	0.30 U	1.0	0.30	03/20/20 12:30	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	03/20/20 12:30	
Bromodichloromethane	ug/L	0.19 U	0.60	0.19	03/20/20 12:30	
Bromoform	ug/L	2.6 U	3.0	2.6	03/20/20 12:30	J(v2)
Bromomethane	ug/L	4.0 U	5.0	4.0	03/20/20 12:30	J(v2)
Carbon disulfide	ug/L	0.45 U	10.0	0.45	03/20/20 12:30	
Carbon tetrachloride	ug/L	1.1 U	3.0	1.1	03/20/20 12:30	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	03/20/20 12:30	
Chloroethane	ug/L	3.7 U	10.0	3.7	03/20/20 12:30	
Chloroform	ug/L	0.32 U	1.0	0.32	03/20/20 12:30	
Chloromethane	ug/L	0.97 U	1.0	0.97	03/20/20 12:30	J(v2)
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	03/20/20 12:30	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	03/20/20 12:30	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	03/20/20 12:30	
Dibromomethane	ug/L	0.68 U	2.0	0.68	03/20/20 12:30	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	03/20/20 12:30	
Iodomethane	ug/L	9.3 U	10.0	9.3	03/20/20 12:30	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	03/20/20 12:30	
m&p-Xylene	ug/L	2.1 U	4.0	2.1	03/20/20 12:30	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	03/20/20 12:30	J(v2)

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

METHOD BLANK: 3368154 Matrix: Water
Associated Lab Samples: 35538498001, 35538498004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	2.0 U	5.0	2.0	03/20/20 12:30	
o-Xylene	ug/L	0.27 U	1.0	0.27	03/20/20 12:30	
Styrene	ug/L	0.26 U	1.0	0.26	03/20/20 12:30	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	03/20/20 12:30	
Toluene	ug/L	0.33 U	1.0	0.33	03/20/20 12:30	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	03/20/20 12:30	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.50	0.17	03/20/20 12:30	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	10.0	2.5	03/20/20 12:30	
Trichloroethene	ug/L	0.36 U	1.0	0.36	03/20/20 12:30	
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	03/20/20 12:30	J(v1)
Vinyl acetate	ug/L	0.19 U	10.0	0.19	03/20/20 12:30	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	03/20/20 12:30	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	03/20/20 12:30	
1,2-Dichloroethane-d4 (S)	%	110	70-130		03/20/20 12:30	
4-Bromofluorobenzene (S)	%	94	70-130		03/20/20 12:30	
Toluene-d8 (S)	%	115	70-130		03/20/20 12:30	

LABORATORY CONTROL SAMPLE: 3368155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.6	88	70-130	
1,1,1-Trichloroethane	ug/L	20	21.3	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	68-125	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	22.4	112	70-130	
1,1-Dichloroethene	ug/L	20	24.7	123	66-133	J(v1)
1,2,3-Trichloropropane	ug/L	20	18.4	92	62-127	
1,2,4-Trimethylbenzene	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	14.3	72	45-137	J(v3)
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	70-130	
1,2-Dichlorobenzene	ug/L	20	20.3	102	70-130	
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
1,2-Dichloroethene (Total)	ug/L	40	42.1	105	70-130	N2
1,2-Dichloropropane	ug/L	20	21.9	109	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.9	100	70-130	
1,4-Dichlorobenzene	ug/L	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	40	35.2	88	47-143	
2-Hexanone	ug/L	40	34.6	87	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.2	88	57-132	
Acetone	ug/L	40	40.8	102	46-148	
Acetonitrile	ug/L	200	267	134	33-175	
Benzene	ug/L	20	22.7	113	70-130	
Bromochloromethane	ug/L	20	21.1	106	70-130	
Bromodichloromethane	ug/L	20	19.0	95	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

LABORATORY CONTROL SAMPLE: 3368155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	13.8	69	49-126	J(v3)
Bromomethane	ug/L	20	9.8	49	10-165	J(v3)
Carbon disulfide	ug/L	20	19.5	98	60-141	
Carbon tetrachloride	ug/L	20	18.9	94	63-126	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	18.2	91	71-142	
Chloroform	ug/L	20	21.8	109	70-130	
Chloromethane	ug/L	20	14.5	72	40-140	J(v3)
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	70-130	
Dibromochloromethane	ug/L	20	16.5	82	62-118	
Dibromomethane	ug/L	20	19.7	98	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
Iodomethane	ug/L	40	24.7	62	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	20	21.0	105	70-130	
m&p-Xylene	ug/L	40	42.7	107	70-130	
Methyl-tert-butyl ether	ug/L	20	15.4	77	64-124	J(v3)
Methylene Chloride	ug/L	20	21.3	106	65-136	
o-Xylene	ug/L	20	19.8	99	70-130	
Styrene	ug/L	20	20.2	101	70-130	
Tetrachloroethene	ug/L	20	17.9	90	64-134	
Toluene	ug/L	20	21.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	17.1	86	42-129	
Trichloroethene	ug/L	20	20.8	104	70-130	
Trichlorofluoromethane	ug/L	20	27.8	139	65-135	J(L1),J(v1)
Vinyl acetate	ug/L	20	19.2	96	60-144	
Vinyl chloride	ug/L	20	22.2	111	68-131	
Xylene (Total)	ug/L	60	62.5	104	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 3368157

Parameter	Units	35538604002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	18.1	90	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	21.6	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	20	21.3	107	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	22.4	112	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	21.8	109	70-130	
1,1-Dichloroethene	ug/L	0.27 U	20	25.5	127	66-133	J(v1)
1,2,3-Trichloropropane	ug/L	1.1 U	20	24.4	122	62-127	
1,2,4-Trimethylbenzene	ug/L	0.24 U	20	19.5	97	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

MATRIX SPIKE SAMPLE: 3368157

Parameter	Units	35538604002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	20	14.5	73	45-137	J(v3)
1,2-Dibromoethane (EDB)	ug/L	0.31 U	20	20.5	103	70-130	
1,2-Dichlorobenzene	ug/L	0.29 U	20	19.9	99	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	19.6	98	70-130	
1,2-Dichloroethene (Total)	ug/L	0.27 U	40	41.7	104	70-130	N2
1,2-Dichloropropane	ug/L	0.23 U	20	21.6	108	70-130	
1,3,5-Trimethylbenzene	ug/L	0.24 U	20	20.3	101	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	7.5 U	40	34.8	87	47-143	J(v3)
2-Hexanone	ug/L	0.85 U	40	30.4	76	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	40	33.1	83	57-132	
Acetone	ug/L	5.3 U	40	37.0	81	46-148	
Acetonitrile	ug/L	24.5 U	200	226	113	33-175	J(v1)
Benzene	ug/L	0.30 U	20	22.3	111	70-130	
Bromochloromethane	ug/L	0.37 U	20	21.3	107	70-130	
Bromodichloromethane	ug/L	0.19 U	20	19.2	96	70-130	
Bromoform	ug/L	2.6 U	20	14.1	70	49-126	J(v3)
Bromomethane	ug/L	4.0 U	20	13.8	69	10-165	J(v3)
Carbon disulfide	ug/L	0.45 U	20	18.8	94	60-141	
Carbon tetrachloride	ug/L	1.1 U	20	19.3	97	63-126	
Chlorobenzene	ug/L	0.35 U	20	21.4	107	70-130	
Chloroethane	ug/L	3.7 U	20	15.2	76	71-142	
Chloroform	ug/L	0.32 U	20	21.6	108	70-130	
Chloromethane	ug/L	0.97 U	20	12.8	64	40-140	J(v3)
cis-1,2-Dichloroethene	ug/L	0.27 U	20	20.8	104	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	17.6	88	70-130	
Dibromochloromethane	ug/L	0.45 U	20	17.9	89	62-118	
Dibromomethane	ug/L	0.68 U	20	19.8	99	70-130	
Ethylbenzene	ug/L	0.30 U	20	21.3	106	70-130	
Iodomethane	ug/L	9.3 U	40	12.4	28	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	20.6	103	70-130	
m&p-Xylene	ug/L	2.1 U	40	42.6	107	70-130	
Methyl-tert-butyl ether	ug/L	0.51 U	20	13.0	65	64-124	J(v3)
Methylene Chloride	ug/L	2.0 U	20	19.7	99	65-136	
o-Xylene	ug/L	0.27 U	20	19.7	98	70-130	
Styrene	ug/L	0.26 U	20	19.5	97	70-130	
Tetrachloroethene	ug/L	0.38 U	20	18.4	92	64-134	
Toluene	ug/L	0.33 U	20	22.2	111	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	20.9	104	68-127	
trans-1,3-Dichloropropene	ug/L	0.17 U	20	17.4	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	20	12.8	64	42-129	
Trichloroethene	ug/L	0.36 U	20	20.9	105	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	22.4	112	65-135	J(v1)
Vinyl acetate	ug/L	0.19 U	20	15.0	75	60-144	
Vinyl chloride	ug/L	0.39 U	20	19.3	96	68-131	
Xylene (Total)	ug/L	2.1 U	60	62.3	104	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

MATRIX SPIKE SAMPLE: 3368157

Parameter	Units	35538604002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%				92	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3368156

Parameter	Units	35538604001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.20 U	0.20 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.27 U	0.27 U		40	J(v1)
1,2,3-Trichloropropane	ug/L	1.1 U	1.1 U		40	
1,2,4-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	1.9 U		40	J(v2)
1,2-Dibromoethane (EDB)	ug/L	0.31 U	0.31 U		40	
1,2-Dichlorobenzene	ug/L	0.29 U	0.29 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloroethene (Total)	ug/L	0.27 U	0.27 U		40	N2
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	7.5 U	7.5 U		40	
2-Hexanone	ug/L	0.85 U	0.85 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	0.32 U	0.32 U		40	
Acetone	ug/L	7.8 I	8.5 I		40	
Acetonitrile	ug/L	24.5 U	24.5 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.36 I		40	
Bromoform	ug/L	2.6 U	2.6 U		40	J(v2)
Bromomethane	ug/L	4.0 U	4.0 U		40	J(v2)
Carbon disulfide	ug/L	0.45 U	0.45 U		40	
Carbon tetrachloride	ug/L	1.1 U	1.1 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	3.2	3.3	2	40	
Chloromethane	ug/L	0.97 U	0.97 U		40	J(v2)
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.68 U	0.68 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	0.30 U		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

SAMPLE DUPLICATE: 3368156

Parameter	Units	35538604001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	2.1 U	2.1 U		40	
Methyl-tert-butyl ether	ug/L	0.51 U	0.51 U		40	J(v2)
Methylene Chloride	ug/L	2.0 U	2.0 U		40	
o-Xylene	ug/L	0.27 U	0.27 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
trans-1,4-Dichloro-2-butene	ug/L	2.5 U	2.5 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	J(v1)
Vinyl acetate	ug/L	0.19 U	0.19 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	102	106		40	
4-Bromofluorobenzene (S)	%	91	91		40	
Toluene-d8 (S)	%	104	108		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

QC Batch: 620149
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35538498001

METHOD BLANK: 3371134
Matrix: Water
Associated Lab Samples: 35538498001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	03/24/20 19:18	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	03/24/20 19:18	
Acenaphthene	ug/L	0.040 U	0.50	0.040	03/24/20 19:18	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	03/24/20 19:18	
Anthracene	ug/L	0.043 U	0.50	0.043	03/24/20 19:18	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	03/24/20 19:18	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	03/24/20 19:18	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	03/24/20 19:18	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	03/24/20 19:18	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	03/24/20 19:18	
Chrysene	ug/L	0.026 U	0.50	0.026	03/24/20 19:18	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	03/24/20 19:18	
Fluoranthene	ug/L	0.018 U	0.50	0.018	03/24/20 19:18	
Fluorene	ug/L	0.088 U	0.50	0.088	03/24/20 19:18	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	03/24/20 19:18	
Naphthalene	ug/L	0.29 U	2.0	0.29	03/24/20 19:18	
Phenanthrene	ug/L	0.16 U	0.50	0.16	03/24/20 19:18	
Pyrene	ug/L	0.032 U	0.50	0.032	03/24/20 19:18	
2-Fluorobiphenyl (S)	%	67	38-92		03/24/20 19:18	
p-Terphenyl-d14 (S)	%	83	54-112		03/24/20 19:18	

LABORATORY CONTROL SAMPLE: 3371135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.3	66	40-96	
2-Methylnaphthalene	ug/L	5	3.2	64	40-94	
Acenaphthene	ug/L	5	3.5	71	42-96	
Acenaphthylene	ug/L	5	3.5	70	39-90	
Anthracene	ug/L	5	4.1	83	46-109	
Benzo(a)anthracene	ug/L	5	4.4	87	50-116	
Benzo(a)pyrene	ug/L	5	4.4	89	48-117	
Benzo(b)fluoranthene	ug/L	5	4.5	89	51-124	
Benzo(g,h,i)perylene	ug/L	5	4.6	92	47-121	
Benzo(k)fluoranthene	ug/L	5	4.6	91	50-125	
Chrysene	ug/L	5	4.6	93	53-122	
Dibenz(a,h)anthracene	ug/L	5	4.4	89	45-123	
Fluoranthene	ug/L	5	4.5	90	52-119	
Fluorene	ug/L	5	3.6	72	44-100	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.5	89	46-121	
Naphthalene	ug/L	5	3.1	63	40-91	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

LABORATORY CONTROL SAMPLE: 3371135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	4.2	85	47-111	
Pyrene	ug/L	5	4.5	91	51-120	
2-Fluorobiphenyl (S)	%			64	38-92	
p-Terphenyl-d14 (S)	%			83	54-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3371136 3371137

Parameter	Units	35538498001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.19 U	5	5	3.3	3.2	65	64	40-96	2	40	
2-Methylnaphthalene	ug/L	0.68 U	5	5	3.2	3.1	62	61	40-94	3	40	
Acenaphthene	ug/L	0.040 U	5	5	3.4	3.5	69	70	42-96	2	40	
Acenaphthylene	ug/L	0.030 U	5	5	3.5	3.5	69	69	39-90	0	40	
Anthracene	ug/L	0.043 U	5	5	4.0	4.0	80	81	46-109	1	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	4.1	4.2	82	84	50-116	2	40	
Benzo(a)pyrene	ug/L	0.12 U	5	5	4.3	4.3	86	86	48-117	0	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	4.2	4.3	84	86	51-124	2	40	
Benzo(g,h,i)perylene	ug/L	0.15 U	5	5	4.1	4.2	83	84	47-121	2	40	
Benzo(k)fluoranthene	ug/L	0.16 U	5	5	4.3	4.3	85	86	50-125	0	40	
Chrysene	ug/L	0.026 U	5	5	4.3	4.4	85	87	53-122	2	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	4.1	4.1	82	82	45-123	0	40	
Fluoranthene	ug/L	0.018 U	5	5	4.2	4.2	85	84	52-119	1	40	
Fluorene	ug/L	0.088 U	5	5	3.5	3.6	69	71	44-100	3	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	4.1	4.1	82	83	46-121	1	40	
Naphthalene	ug/L	0.29 U	5	5	3.2	3.0	62	58	40-91	6	40	
Phenanthrene	ug/L	0.16 U	5	5	4.0	4.1	80	81	47-111	1	40	
Pyrene	ug/L	0.032 U	5	5	4.3	4.3	87	86	51-120	1	40	
2-Fluorobiphenyl (S)	%						63	62	38-92			
p-Terphenyl-d14 (S)	%						76	75	54-112			

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

QC Batch: 619415
QC Batch Method: EPA 3510
Associated Lab Samples: 35538498001

Analysis Method: EPA 8270
Analysis Description: 8270 Water Full List MSSV

METHOD BLANK: 3366772
Matrix: Water
Associated Lab Samples: 35538498001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
1,2-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	03/20/20 10:19	
1,2-Dinitrobenzene	ug/L	1.9 U	6.0	1.9	03/20/20 10:19	
1,2-Diphenylhydrazine	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
1,3-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	03/20/20 10:19	
1,3-Dinitrobenzene	ug/L	1.2 U	8.0	1.2	03/20/20 10:19	
1,4-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	03/20/20 10:19	
1-Methylnaphthalene	ug/L	0.36 U	5.0	0.36	03/20/20 10:19	
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	5.0	1.0	03/20/20 10:19	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	9.0	1.9	03/20/20 10:19	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	4.0	0.23	03/20/20 10:19	
2,4,6-Trichlorophenol	ug/L	0.36 U	2.0	0.36	03/20/20 10:19	
2,4-Dichlorophenol	ug/L	0.34 U	2.0	0.34	03/20/20 10:19	
2,4-Dimethylphenol	ug/L	1.0 U	5.0	1.0	03/20/20 10:19	
2,4-Dinitrophenol	ug/L	2.6 U	20.0	2.6	03/20/20 10:19	
2,4-Dinitrotoluene	ug/L	0.27 U	4.0	0.27	03/20/20 10:19	
2,6-Dinitrotoluene	ug/L	0.28 U	2.0	0.28	03/20/20 10:19	
2-Chloronaphthalene	ug/L	0.34 U	5.0	0.34	03/20/20 10:19	
2-Chlorophenol	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
2-Methylnaphthalene	ug/L	0.28 U	5.0	0.28	03/20/20 10:19	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	5.0	0.30	03/20/20 10:19	
2-Nitroaniline	ug/L	1.3 U	5.0	1.3	03/20/20 10:19	
2-Nitrophenol	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
3&4-Methylphenol(m&p Cresol)	ug/L	0.22 U	10.0	0.22	03/20/20 10:19	
3,3'-Dichlorobenzidine	ug/L	1.0 U	10.0	1.0	03/20/20 10:19	
3-Nitroaniline	ug/L	1.3 U	5.0	1.3	03/20/20 10:19	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	20.0	4.6	03/20/20 10:19	
4-Bromophenylphenyl ether	ug/L	1.7 U	5.0	1.7	03/20/20 10:19	
4-Chloro-3-methylphenol	ug/L	5.4 U	20.0	5.4	03/20/20 10:19	
4-Chloroaniline	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
4-Chlorophenylphenyl ether	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
4-Nitroaniline	ug/L	0.19 U	4.0	0.19	03/20/20 10:19	
4-Nitrophenol	ug/L	2.0 U	20.0	2.0	03/20/20 10:19	
Acenaphthene	ug/L	0.36 U	5.0	0.36	03/20/20 10:19	
Acenaphthylene	ug/L	0.30 U	5.0	0.30	03/20/20 10:19	
Aniline	ug/L	0.94 U	5.0	0.94	03/20/20 10:19	
Anthracene	ug/L	0.22 U	5.0	0.22	03/20/20 10:19	
Benzidine	ug/L	0.87 U	25.0	0.87	03/20/20 10:19	
Benzo(a)anthracene	ug/L	0.20 U	5.0	0.20	03/20/20 10:19	
Benzo(a)pyrene	ug/L	0.17 U	1.0	0.17	03/20/20 10:19	
Benzo(b)fluoranthene	ug/L	0.27 U	2.0	0.27	03/20/20 10:19	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

METHOD BLANK: 3366772 Matrix: Water
Associated Lab Samples: 35538498001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(g,h,i)perylene	ug/L	0.17 U	5.0	0.17	03/20/20 10:19	
Benzo(k)fluoranthene	ug/L	0.18 U	4.0	0.18	03/20/20 10:19	
Benzyl alcohol	ug/L	1.3 U	5.0	1.3	03/20/20 10:19	
bis(2-Chloroethoxy)methane	ug/L	1.6 U	5.0	1.6	03/20/20 10:19	
bis(2-Chloroethyl) ether	ug/L	0.34 U	4.0	0.34	03/20/20 10:19	
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	6.0	1.8	03/20/20 10:19	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	5.0	1.1	03/20/20 10:19	
Butylbenzylphthalate	ug/L	1.1 U	5.0	1.1	03/20/20 10:19	
Caprolactam	ug/L	0.40 U	5.0	0.40	03/20/20 10:19	N2
Carbazole	ug/L	1.1 U	5.0	1.1	03/20/20 10:19	
Chrysene	ug/L	0.20 U	5.0	0.20	03/20/20 10:19	
Di-n-butylphthalate	ug/L	1.1 U	5.0	1.1	03/20/20 10:19	
Di-n-octylphthalate	ug/L	0.92 U	5.0	0.92	03/20/20 10:19	
Dibenz(a,h)anthracene	ug/L	0.18 U	2.0	0.18	03/20/20 10:19	
Dibenzofuran	ug/L	1.5 U	5.0	1.5	03/20/20 10:19	
Diethylphthalate	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
Dimethylphthalate	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
Fluoranthene	ug/L	0.21 U	5.0	0.21	03/20/20 10:19	
Fluorene	ug/L	0.34 U	5.0	0.34	03/20/20 10:19	
Hexachloro-1,3-butadiene	ug/L	0.35 U	2.0	0.35	03/20/20 10:19	
Hexachlorobenzene	ug/L	0.29 U	1.0	0.29	03/20/20 10:19	
Hexachlorocyclopentadiene	ug/L	3.4 U	11.0	3.4	03/20/20 10:19	
Hexachloroethane	ug/L	1.4 U	5.0	1.4	03/20/20 10:19	
Indeno(1,2,3-cd)pyrene	ug/L	0.17 U	2.0	0.17	03/20/20 10:19	
Isophorone	ug/L	1.7 U	5.0	1.7	03/20/20 10:19	
N-Nitroso-di-n-propylamine	ug/L	0.33 U	4.0	0.33	03/20/20 10:19	
N-Nitrosodimethylamine	ug/L	0.20 U	2.0	0.20	03/20/20 10:19	
N-Nitrosodiphenylamine	ug/L	1.2 U	5.0	1.2	03/20/20 10:19	
Naphthalene	ug/L	0.39 U	5.0	0.39	03/20/20 10:19	
Nitrobenzene	ug/L	0.37 U	4.0	0.37	03/20/20 10:19	
Pentachlorophenol	ug/L	1.6 U	20.0	1.6	03/20/20 10:19	
Phenanthrene	ug/L	0.23 U	5.0	0.23	03/20/20 10:19	
Phenol	ug/L	0.63 U	5.0	0.63	03/20/20 10:19	
Pyrene	ug/L	0.21 U	5.0	0.21	03/20/20 10:19	
Pyridine	ug/L	1.1 U	5.0	1.1	03/20/20 10:19	
2,4,6-Tribromophenol (S)	%	100	10-126		03/20/20 10:19	
2-Fluorobiphenyl (S)	%	79	10-96		03/20/20 10:19	
2-Fluorophenol (S)	%	47	10-55		03/20/20 10:19	
Nitrobenzene-d5 (S)	%	71	10-94		03/20/20 10:19	
p-Terphenyl-d14 (S)	%	87	24-129		03/20/20 10:19	
Phenol-d5 (S)	%	35	10-35		03/20/20 10:19	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

LABORATORY CONTROL SAMPLE: 3366773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	33.8	68	33-89	
1,2-Dichlorobenzene	ug/L	50	32.3	65	30-85	
1,2-Dinitrobenzene	ug/L	50	43.9	88	55-111	
1,2-Diphenylhydrazine	ug/L	50	37.4	75	49-106	
1,3-Dichlorobenzene	ug/L	50	31.7	63	28-83	
1,3-Dinitrobenzene	ug/L	50	45.8	92	55-114	
1,4-Dichlorobenzene	ug/L	50	32.0	64	26-87	
1-Methylnaphthalene	ug/L	50	35.1	70	40-94	
2,3,4,6-Tetrachlorophenol	ug/L	50	42.5	85	56-108	
2,3,5,6-Tetrachlorophenol	ug/L	50	43.8	88	57-108	N2
2,4,5-Trichlorophenol	ug/L	50	41.4	83	46-111	
2,4,6-Trichlorophenol	ug/L	50	40.1	80	45-108	
2,4-Dichlorophenol	ug/L	50	37.1	74	46-94	
2,4-Dimethylphenol	ug/L	50	37.5	75	44-92	
2,4-Dinitrophenol	ug/L	50	46.4	93	49-123	
2,4-Dinitrotoluene	ug/L	50	45.6	91	47-120	
2,6-Dinitrotoluene	ug/L	50	42.9	86	57-107	
2-Chloronaphthalene	ug/L	50	34.3	69	39-98	
2-Chlorophenol	ug/L	50	32.8	66	35-83	
2-Methylnaphthalene	ug/L	50	35.7	71	39-95	
2-Methylphenol(o-Cresol)	ug/L	50	31.3	63	29-84	
2-Nitroaniline	ug/L	50	43.0	86	56-107	
2-Nitrophenol	ug/L	50	37.6	75	43-96	
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.5	59	26-82	
3,3'-Dichlorobenzidine	ug/L	50	44.5	89	61-113	
3-Nitroaniline	ug/L	50	39.3	79	56-104	
4,6-Dinitro-2-methylphenol	ug/L	50	50.0	100	51-131	
4-Bromophenylphenyl ether	ug/L	50	41.8	84	51-105	
4-Chloro-3-methylphenol	ug/L	50	38.4	77	51-98	
4-Chloroaniline	ug/L	50	38.2	76	50-92	
4-Chlorophenylphenyl ether	ug/L	50	40.2	80	48-103	
4-Nitroaniline	ug/L	50	45.6	91	61-108	
4-Nitrophenol	ug/L	50	18.6 I	37	10-61	
Acenaphthene	ug/L	50	39.0	78	45-102	
Acenaphthylene	ug/L	50	38.2	76	46-99	
Aniline	ug/L	50	33.5	67	33-88	
Anthracene	ug/L	50	41.4	83	56-106	
Benzidine	ug/L	50	28.5	57	10-110	
Benzo(a)anthracene	ug/L	50	43.0	86	45-114	
Benzo(a)pyrene	ug/L	50	44.2	88	36-115	
Benzo(b)fluoranthene	ug/L	50	42.7	85	37-118	
Benzo(g,h,i)perylene	ug/L	50	45.2	90	32-120	
Benzo(k)fluoranthene	ug/L	50	45.3	91	35-119	
Benzyl alcohol	ug/L	50	31.3	63	35-78	
bis(2-Chloroethoxy)methane	ug/L	50	35.4	71	43-94	
bis(2-Chloroethyl) ether	ug/L	50	32.3	65	34-90	
bis(2-Chloroisopropyl) ether	ug/L	50	29.6	59	26-96	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

LABORATORY CONTROL SAMPLE: 3366773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	43.0	86	28-125	
Butylbenzylphthalate	ug/L	50	43.2	86	54-116	
Caprolactam	ug/L	50	14.0	28	10-36	N2
Carbazole	ug/L	50	43.2	86	58-109	
Chrysene	ug/L	50	42.7	85	44-115	
Di-n-butylphthalate	ug/L	50	42.7	85	57-113	
Di-n-octylphthalate	ug/L	50	43.9	88	28-124	
Dibenz(a,h)anthracene	ug/L	50	44.6	89	30-121	
Dibenzofuran	ug/L	50	39.2	78	47-101	
Diethylphthalate	ug/L	50	41.6	83	57-107	
Dimethylphthalate	ug/L	50	41.1	82	56-104	
Fluoranthene	ug/L	50	43.5	87	56-110	
Fluorene	ug/L	50	40.1	80	49-104	
Hexachloro-1,3-butadiene	ug/L	50	34.0	68	25-95	
Hexachlorobenzene	ug/L	50	41.8	84	44-111	
Hexachlorocyclopentadiene	ug/L	50	37.5	75	10-126	
Hexachloroethane	ug/L	50	31.5	63	21-87	
Indeno(1,2,3-cd)pyrene	ug/L	50	44.1	88	31-120	
Isophorone	ug/L	50	35.6	71	46-95	
N-Nitroso-di-n-propylamine	ug/L	50	33.1	66	44-92	
N-Nitrosodimethylamine	ug/L	50	23.3	47	18-64	
N-Nitrosodiphenylamine	ug/L	50	40.9	82	53-105	
Naphthalene	ug/L	50	34.8	70	37-90	
Nitrobenzene	ug/L	50	33.1	66	36-95	
Pentachlorophenol	ug/L	50	44.7	89	45-127	
Phenanthrene	ug/L	50	41.8	84	55-106	
Phenol	ug/L	50	14.9	30	10-44	
Pyrene	ug/L	50	43.3	87	54-114	
Pyridine	ug/L	50	17.3	35	10-57	
2,4,6-Tribromophenol (S)	%			91	10-126	
2-Fluorobiphenyl (S)	%			70	10-96	
2-Fluorophenol (S)	%			41	10-55	
Nitrobenzene-d5 (S)	%			67	10-94	
p-Terphenyl-d14 (S)	%			78	24-129	
Phenol-d5 (S)	%			30	10-35	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3366774 3366775

Parameter	Units	35538029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	1.4 U	48.6	50.2	22.5	26.6	46	53	33-89	17	40	
1,2-Dichlorobenzene	ug/L	1.5 U	48.6	50.2	21.5	26.2	44	52	30-85	20	40	
1,2-Dinitrobenzene	ug/L	1.9 U	48.6	50.2	34.9	37.9	72	76	55-111	8	40	
1,2-Diphenylhydrazine	ug/L	1.4 U	48.6	50.2	27.8	29.7	57	59	49-106	7	40	
1,3-Dichlorobenzene	ug/L	1.5 U	48.6	50.2	20.9	25.5	43	51	28-83	20	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3366774 3366775

Parameter	Units	35538029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dinitrobenzene	ug/L	1.2 U	48.6	50.2	36.1	39.1	74	78	55-114	8	40	
1,4-Dichlorobenzene	ug/L	1.6 U	48.6	50.2	21.1	25.6	43	51	26-87	19	40	
1-Methylnaphthalene	ug/L	0.36 U	48.6	50.2	25.1	28.3	52	56	40-94	12	40	
2,3,4,6-Tetrachlorophenol	ug/L	1.1 U	48.6	50.2	33.1	36.5	68	73	56-108	10	40	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	48.6	50.2	35.1	38.2	72	76	57-108	8	40	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	48.6	50.2	33.0	35.9	68	71	46-111	8	40	
2,4,6-Trichlorophenol	ug/L	0.36 U	48.6	50.2	31.6	34.6	65	69	45-108	9	40	
2,4-Dichlorophenol	ug/L	0.34 U	48.6	50.2	28.5	31.9	59	63	46-94	11	40	
2,4-Dimethylphenol	ug/L	1.0 U	48.6	50.2	30.1	33.2	62	66	44-92	10	40	
2,4-Dinitrophenol	ug/L	2.7 U	48.6	50.2	39.8	43.8	82	87	49-123	10	40	
2,4-Dinitrotoluene	ug/L	0.27 U	48.6	50.2	35.0	38.2	72	76	47-120	9	40	
2,6-Dinitrotoluene	ug/L	0.28 U	48.6	50.2	33.3	36.2	69	72	57-107	8	40	
2-Chloronaphthalene	ug/L	0.34 U	48.6	50.2	24.8	27.9	51	56	39-98	12	40	
2-Chlorophenol	ug/L	1.4 U	48.6	50.2	23.9	28.3	49	56	35-83	17	40	
2-Methylnaphthalene	ug/L	0.28 U	48.6	50.2	25.0	28.7	52	57	39-95	14	40	
2-Methylphenol(o-Cresol)	ug/L	2.0 I	48.6	50.2	26.0	29.4	49	55	29-84	12	40	
2-Nitroaniline	ug/L	1.3 U	48.6	50.2	34.7	37.3	71	74	56-107	7	40	
2-Nitrophenol	ug/L	1.4 U	48.6	50.2	26.9	31.6	55	63	43-96	16	40	
3&4-Methylphenol(m&p Cresol)	ug/L	51.5	48.6	50.2	71.8	81.6	42	60	26-82	13	40	
3,3'-Dichlorobenzidine	ug/L	1.1 U	48.6	50.2	2.8 I	2.3 I	6	5	61-113		40	J(M1)
3-Nitroaniline	ug/L	1.3 U	48.6	50.2	29.5	32.0	61	64	56-104	8	40	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	48.6	50.2	39.1	43.7	80	87	51-131	11	40	
4-Bromophenylphenyl ether	ug/L	1.7 U	48.6	50.2	30.9	33.7	64	67	51-105	9	40	
4-Chloro-3-methylphenol	ug/L	5.5 U	48.6	50.2	38.6	40.1	79	80	51-98	4	40	
4-Chloroaniline	ug/L	1.4 U	48.6	50.2	25.8	30.2	53	60	50-92	16	40	
4-Chlorophenylphenyl ether	ug/L	1.5 U	48.6	50.2	28.8	31.7	59	63	48-103	9	40	
4-Nitroaniline	ug/L	0.19 U	48.6	50.2	34.7	37.7	71	75	61-108	8	40	
4-Nitrophenol	ug/L	2.0 U	48.6	50.2	16.0 I	16.7 I	33	33	10-61		40	
Acenaphthene	ug/L	0.36 U	48.6	50.2	28.9	31.7	59	63	45-102	10	40	
Acenaphthylene	ug/L	0.30 U	48.6	50.2	28.2	31.3	58	62	46-99	10	40	
Aniline	ug/L	0.95 U	48.6	50.2	24.3	28.6	50	57	33-88	16	40	
Anthracene	ug/L	0.22 U	48.6	50.2	30.0	33.1	62	66	56-106	10	40	
Benzidine	ug/L	0.88 U	48.6	50.2	0.85 U	0.87 U	0	0	10-110		40	J(M1)
Benzo(a)anthracene	ug/L	0.20 U	48.6	50.2	28.4	31.7	58	63	45-114	11	40	
Benzo(a)pyrene	ug/L	0.17 U	48.6	50.2	27.5	30.7	57	61	36-115	11	40	
Benzo(b)fluoranthene	ug/L	0.27 U	48.6	50.2	26.8	29.8	55	59	37-118	11	40	
Benzo(g,h,i)perylene	ug/L	0.17 U	48.6	50.2	26.4	29.8	54	59	32-120	12	40	
Benzo(k)fluoranthene	ug/L	0.18 U	48.6	50.2	26.9	30.3	55	60	35-119	12	40	
Benzyl alcohol	ug/L	1.3 U	48.6	50.2	25.1	29.2	51	58	35-78	15	40	
bis(2-Chloroethoxy)methane	ug/L	1.6 U	48.6	50.2	25.9	29.5	53	59	43-94	13	40	
bis(2-Chloroethyl) ether	ug/L	0.34 U	48.6	50.2	22.3	26.9	46	54	34-90	19	40	
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	48.6	50.2	20.6	24.4	42	49	26-96	17	40	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	48.6	50.2	19.1	20.2	39	40	28-125	5	40	
Butylbenzylphthalate	ug/L	1.1 U	48.6	50.2	30.6	33.8	63	67	54-116	10	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3366774 3366775

Parameter	Units	35538029001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Caprolactam	ug/L	0.40 U	48.6	50.2	11.9	12.9	24	26	10-36	8	40	N2
Carbazole	ug/L	1.1 U	48.6	50.2	33.0	36.2	68	72	58-109	9	40	
Chrysene	ug/L	0.20 U	48.6	50.2	28.6	32.0	59	64	44-115	11	40	
Di-n-butylphthalate	ug/L	1.1 U	48.6	50.2	30.5	34.6	62	68	57-113	12	40	
Di-n-octylphthalate	ug/L	0.93 U	48.6	50.2	19.1	20.2	39	40	28-124	5	40	
Dibenz(a,h)anthracene	ug/L	0.18 U	48.6	50.2	24.8	27.6	51	55	30-121	11	40	
Dibenzofuran	ug/L	1.5 U	48.6	50.2	28.7	31.7	59	63	47-101	10	40	
Diethylphthalate	ug/L	1.4 U	48.6	50.2	33.9	38.0	67	73	57-107	11	40	
Dimethylphthalate	ug/L	1.4 U	48.6	50.2	31.7	34.4	65	68	56-104	8	40	
Fluoranthene	ug/L	0.21 U	48.6	50.2	30.8	34.0	63	68	56-110	10	40	
Fluorene	ug/L	0.34 U	48.6	50.2	29.6	32.1	61	64	49-104	8	40	
Hexachloro-1,3-butadiene	ug/L	0.35 U	48.6	50.2	21.5	25.9	44	52	25-95	18	40	
Hexachlorobenzene	ug/L	0.29 U	48.6	50.2	28.5	32.3	59	64	44-111	12	40	
Hexachlorocyclopentadiene	ug/L	3.5 U	48.6	50.2	26.9	31.7	55	63	10-126	16	40	
Hexachloroethane	ug/L	1.4 U	48.6	50.2	20.8	24.9	43	50	21-87	18	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.17 U	48.6	50.2	25.2	28.3	52	56	31-120	11	40	
Isophorone	ug/L	1.7 U	48.6	50.2	26.2	29.4	54	59	46-95	11	40	
N-Nitroso-di-n-propylamine	ug/L	0.33 U	48.6	50.2	25.0	28.4	52	57	44-92	13	40	
N-Nitrosodimethylamine	ug/L	0.20 U	48.6	50.2	18.1	20.7	37	41	18-64	13	40	
N-Nitrosodiphenylamine	ug/L	1.2 U	48.6	50.2	31.4	34.3	65	68	53-105	9	40	
Naphthalene	ug/L	0.39 U	48.6	50.2	23.9	27.6	49	55	37-90	14	40	
Nitrobenzene	ug/L	0.37 U	48.6	50.2	23.2	26.8	48	53	36-95	14	40	
Pentachlorophenol	ug/L	1.7 U	48.6	50.2	36.4	39.3	75	78	45-127	8	40	
Phenanthrene	ug/L	0.23 U	48.6	50.2	30.5	33.0	63	66	55-106	8	40	
Phenol	ug/L	25.3	48.6	50.2	33.3	37.1	16	23	10-44	11	40	
Pyrene	ug/L	0.21 U	48.6	50.2	30.4	33.5	62	67	54-114	10	40	
Pyridine	ug/L	1.1 U	48.6	50.2	16.2	18.9	33	38	10-57	15	40	
2,4,6-Tribromophenol (S)	%						74	78	10-126			
2-Fluorobiphenyl (S)	%						52	58	10-96			
2-Fluorophenol (S)	%						30	34	10-55			
Nitrobenzene-d5 (S)	%						46	53	10-94			
p-Terphenyl-d14 (S)	%						52	58	24-129			
Phenol-d5 (S)	%						24	26	10-35			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35538498

QC Batch: 620365
QC Batch Method: EPA 3510
Analysis Method: FL-PRO
Analysis Description: FL-PRO Water Low Volume
Associated Lab Samples: 35538498001

METHOD BLANK: 3372064
Matrix: Water
Associated Lab Samples: 35538498001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	03/24/20 21:55	
N-Pentatriacontane (S)	%	100	42-159		03/24/20 21:55	
o-Terphenyl (S)	%	85	66-139		03/24/20 21:55	

LABORATORY CONTROL SAMPLE: 3372065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	2.5	2.0	78	66-119	
N-Pentatriacontane (S)	%			90	42-159	
o-Terphenyl (S)	%			96	66-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3372066 3372067

Parameter	Units	35538378002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L	0.76 U	2.4	2.3	1.6	1.8	65	77	65-123	12	20	
N-Pentatriacontane (S)	%						67	98	42-159			
o-Terphenyl (S)	%						85	74	66-139			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALIFIERS

Project: Safety Kleen Facility
Pace Project No.: 35538498

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(L1)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	Safety Kleen Facility
Pace Project No.:	35538498

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35538498001	**MW-2R**	EPA 3510	620365	FL-PRO	620456
35538498001	**MW-2R**	EPA 200.8	619475	EPA 200.8	619478
35538498002	**MW-1**	EPA 200.8	619475	EPA 200.8	619478
35538498003	**MW-3**	EPA 200.8	619475	EPA 200.8	619478
35538498001	**MW-2R**	EPA 3510	620149	EPA 8270 by SIM	620263
35538498001	**MW-2R**	EPA 3510	619415	EPA 8270	619509
35538498001	**MW-2R**	EPA 8260	619616		
35538498004	**Trip Blank**	EPA 8260	619616		

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WO#:35538498

35538498

Page : 1 Of 1

Section A
Required Client Information:

Company:	Environmental Consulting & Technology-Tampa
Address:	1408 North Westshore Bllvd
	Tampa, FL 33607
Email:	kmorrison@ectinc.com
Phone:	813-493-0383 Fax: 813-289-9388
Requested Due Date:	

Section B
Required Project Information:

Report To:	Keith Morrison
Copy To:	"
Purchase Order #:	
Project Name:	Safety Kleen Facility
Project #:	200229-0100

Se
Invo

Attention:	Keith Morrison
Company Name:	ECT
Address:	1408 N. Westshore Blvd # 115
Pace Quote:	
Pace Project Manager:	lori.palmer@pacelabs.com,
Pace Profile #:	9321 line 1

Regulatory Agency

State / Location
FL

MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Other OT
Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START Sample TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N Analyses Test	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Wate	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	Trip BLANK						Residual Chlorine (Y/N)	
1	MW-2R	WT		3/19/20	1119	3/19/20	1140	N	8	2	2	1	3						X	X	X	X	[illegible]	X								
2	MW-1	WT		3/19/20	1049	3/19/20	1047		1			1										X										
3	MW-3	WT		3/19/20	1103	3/19/20	1103		1			1										X										
4	Trip Blank	WT		~~3/19/20~~	—	~~3/~~	—		2																X							
5	QA/QC-MW-2R			3-19-20	1119	3-19-20	1140		6	4	[illegible]												X	X								
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Bottle Kit	Pace	3-18-20	1420	Keith F Morrison / ECT	3-18-2020	1600	TL3			
	Keith F Morrison / ECT	3-19-2020	1630	MP / pace	3/19/20	1630	11.6	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison / ECT

SIGNATURE of SAMPLER: Keith F Morrison DATE Signed: 3-19-2020

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35538498
Project Manager: PM: LAP Due Date: 03/26/20
Client: CLIENT: 37-ECTTAM

Date and Initials of person:
Examining contents: 3/19/20
Label: MCS
Deliver:
pH:

Thermometer Used: T2w3 Date: 3/19/20 Time: 1630 Initials: mvz

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 11.5 **(Visual)** +0.1 **(Correction Factor)** 11.6 **(Actual)** ☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C ___ **(Visual)** ___ **(Correction Factor)** ___ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C ___ **(Visual)** ___ **(Correction Factor)** ___ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C ___ **(Visual)** ___ **(Correction Factor)** ___ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C ___ **(Visual)** ___ **(Correction Factor)** ___ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C ___ **(Visual)** ___ **(Correction Factor)** ___ **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other___
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other___
Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown
Tracking # ___

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Dry None
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other___
Samples shorted to lab (If Yes, complete) Shorted Date:___ Shorted Time:___ Qty:___

		Comments:
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative:___ Lot #/Trace #:___ Date:___ Time:___ Initials:___
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒ Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:
Person Contacted: ___ Date/Time: ___

Comments/ Resolution (use back for additional comments):___

Project Manager Review: ___ Date: ___

Permit #: IW-333 **Permit Year:** 2020 ~~2019~~

Facility Name: SAFETY-KLEEN SYSTEMS, INC.

Facility Address: 8755 NW 95 ST
MEDLEY, FL 33178

Contact Name: Mr. Larry Rodriguez

Reports must be mailed to:
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Ct, Suite #700
Miami, FL 33136-3912

Instructions: Indicate which report is being provided by checking off the applicable "Source Type" box(es) from the listing below. In addition, indicate the period being reported and attach the applicable information (e.g. waste manifests, analytical results, etc.) as required by each Source Type. Refer to the operating permit document for more information on reporting and sampling requirements, including analytical methodologies, applicable to the referenced facility.

Reporting Requirements:

☐ Source Type:RR-1 Reporting Frequency: Quarterly Reporting Period: ______

Description: Copies of manifests and/or receipts of all hazardous waste, industrial waste, industrial wastewater, sludge and/or ash disposed of. Information shall include name of hauler, volume and final destination. Records shall also be maintained on-site for review.

Sampling Requirements:

☒ Source Type: SMP-1 Reporting Frequency: Annually Reporting Period: 5/15/21

Description: Groundwater from the facility monitoring well(s).

Parameters: Cadmium (Total), Chromium (Total), Lead (Total), Silver (Total)

☒ Source Type: SMP-2 Reporting Frequency: Annually Reporting Period: 6/15/21

Description: Groundwater from monitoring well nearest the containment area stormwater discharge point.

Parameters: EPA Series 8260, EPA Series 8270, TRPH

Average Daily Waste Water Flow Discharge to Sanitary Sewers: ______ Gallons Per Day (GPD)

I hereby certify that, to the best of my knowledge, this document and all attachments are true, accurate and complete.

Authorized Representative or Corporate Officer

5/4/21
Report Completion Date

May 4, 2021
210212-0100

Mr. Michael Montano, Environmental Specialist Supervisor
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, Suite #700
Miami, Florida 33136-3912

Re: Safety-Kleen Systems, Inc., Medley, Florida
Industrial Waste Permit No. IW-000333-2020/2021 (File # 10139)
Annual Report of Groundwater Quality

Dear Mr. Montano:

On behalf of Safety-Kleen Systems, Inc. (SK), this document comprises the Annual Report of Groundwater Quality as required by Specific Condition 16 and the associated sampling requirements in the above-referenced Industrial Waste Annual Operating Permit for SK's Medley, Florida facility. Environmental Consulting & Technology, Inc. (ECT) completed the annual groundwater sampling at the above-referenced Medley facility in accordance with the facility's permit.

On April 12, 2021, ECT collected groundwater samples from monitoring wells MW-1, MW-2R (a.k.a. MW-2), and MW-3 per the annual SMP-1 requirement, and from monitoring well MW-2R per the annual SMP-2 requirement. The samples from all three wells (for SMP-1) were submitted to Pace Analytical Services, Inc. (PAS) for analyses of the silver, cadmium, chromium, and lead by U.S. Environmental Protection Agency (EPA) Method 200.8. In addition, samples from monitoring well MW-2R (for SMP-2) were also submitted to PAS for analyses of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Florida Petroleum Range Organics (FLPRO). The locations of the facility's groundwater monitoring wells are shown on the enclosed Figure 1.

A peristaltic pump was used to purge and sample the monitoring wells. The field notes, groundwater sampling logs, and equipment calibration forms are provided in Attachment A. The groundwater quality results (laboratory report) are provided in Attachment B.

The laboratory report indicated that concentrations for two of the four metals (i.e., silver and cadmium) were below their respective method detection limits (MDLs) in all three wells sampled per the annual SMP-1 requirements. Chromium was detected at estimated concentrations of 0.60I micrograms per liter (µg/L) at monitoring well MW-1, 0.69I µg/L at monitoring well MW-2R, and 0.57I µg/L at monitoring well MW-3. However, those concentrations were detected between the laboratory MDL and the laboratory practical quantitation limit (PQL) and are well below the groundwater cleanup target level (GCTL) of 100 µg/L for chromium as specified in the permit. Lead was also detected at an estimated concentration of 0.82I µg/L at monitoring well MW-3 which was between the laboratory MDL and the laboratory PQL and is well below the GCTL of 15 µg/L as specified in the permit.

Per the annual SMP-2 requirement at monitoring well MW-2R, the laboratory report indicated the following results for the various analyses of organic parameters:

1. FLPRO concentrations were below the MDL; that is, none was detected.
2. No SVOC was detected (i.e., EPA Series 8270 parameters).
3. No VOC was detected (i.e., EPA Series 8260 parameters).

As such, the observed groundwater quality is compliant with the permit.

If you have any questions regarding this report, please call Jeff Curtis of SK at (561) 523-4719. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Keith F. Morrison

Keith F. Morrison
Project Manager

Gregory B. Page, P.E.
Senior Engineer III

SAFETY-KLEEN SYSTEMS, INC.

Jeff Curtis
EHS Manager, Florida
Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida 33426
jeff.curtis@safety-kleen.com

Enclosures:
Figure 1
Attachment A – Field Notes, Groundwater Sampling Logs, and Equipment Calibration Logs
Attachment B - Laboratory Report

cc: Robert Schoepke – S-K (electronic only)
Greg Page – ECT (electronic only)
Keith Morrison – ECT (electronic only)
Facility 999 File #1760, % S-K Medley facility Branch General Manager

FIGURE

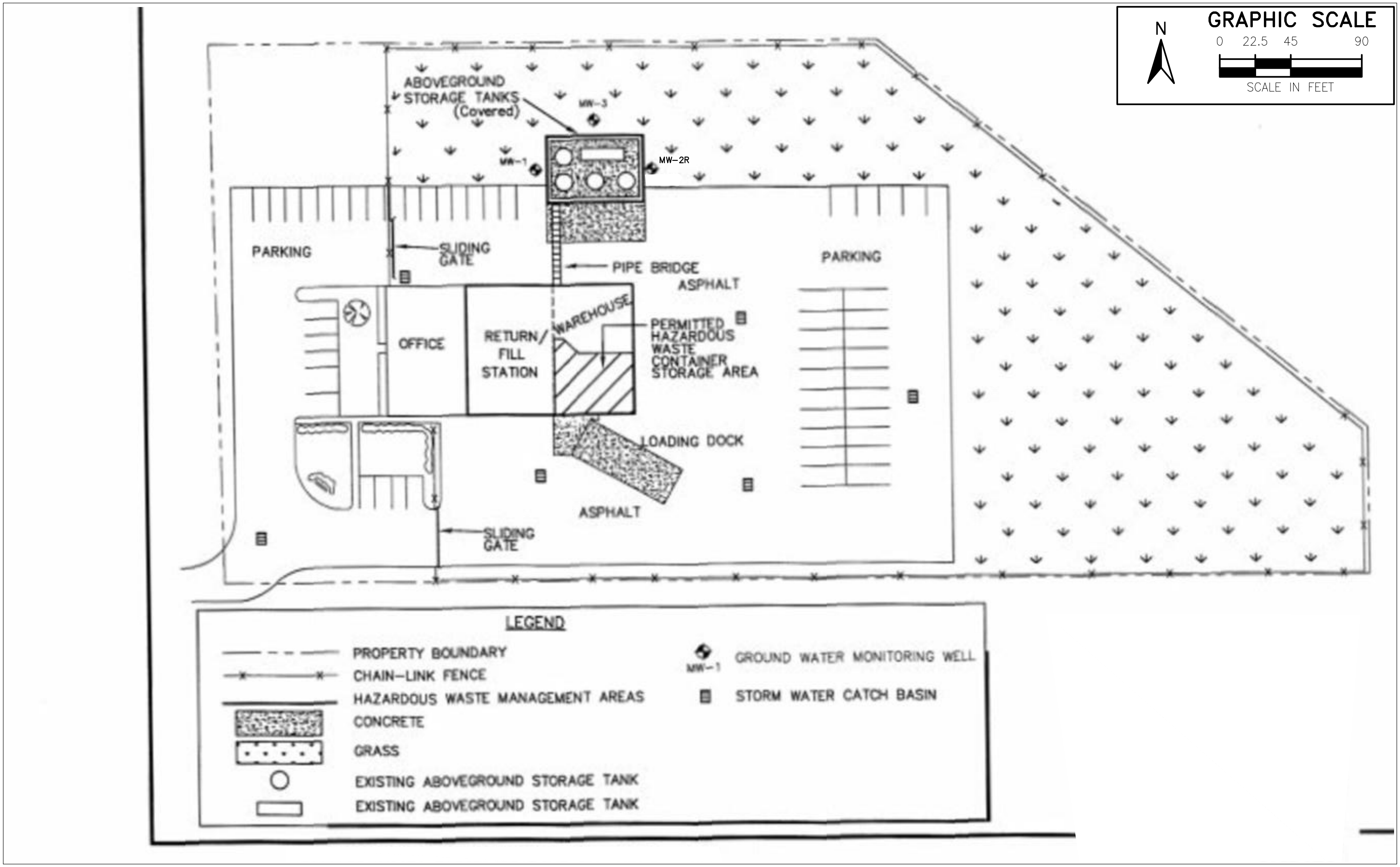

FIGURE 1.

FACILITY LAYOUT AND ACCESS CONTROL FEATURES
SAFETY-KLEEN SYSTEMS, INC. FACILITY
8755 NW 95TH STREET, MEDLEY, FLORIDA

Source: ERM, 2012; ECT, 2020.

ECT Environmental Consulting & Technology, Inc.

T:\PROJECTS\2020\SK Medley\200228\0100\Layout.dwg

4/21/2020 8:36:55 AM by Jeanette Stebnisky

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS, AND EQUIPMENT CALIBRATION LOGS

SAFETY-KLEEN MEDLEY, FL 210212-0100 P. 1
ECT-Keith Morrison/4/11/21+4/12/21

4-11-21
12:30 mobilize to Condo in Ft Lauderdale
5:15 at Condo in Ft Lauderdale
complete

4-12-21 5:40 calibration check on meters
700 off to Safety-Kleen Medley
740 onsite Safety-Kleen, weather
overcast 73°F No wind
check in with office
opening wells MW-1, MW-2R+MW-3
806 purging MW-3
831 purging MW-2R with second peristaltic pump
X 832 Sampling MW-3
X 855 sampling MW-2R QA/QC samples also collected
917 purging MW-1 with second pump
X 941 Sampling MW-1, clean up containerize Investigation Derived Waste (IDW), close wells, check out at Safety Kleen Medley office
1030 off for more Ice
1125 buy more Ice + coffee
1435 off to PACE Labs.
1535 at PACE Labs, Dropped off cooler
1600 at ECT Tampa office, unload T-15, calibration check on meters / 1630 complete

X = sample Time

Keith F. Morrison

Pace Container Order #796677

Addresses

Order By :
Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Ship To :
Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Return To:
Company Pace Analytical Oldsmar
Contact Palmer, Lori
Email lori.palmer@pacelabs.com
Address 110 South Bayview Blvd.
Address 2
City Oldsmar
State FL Zip 34677
Phone 813-855-1844

Info

Project Name Safety Kleen Facility
Due Date 04/05/2021
Profile 9321 line 1
Quote
Project Manager Palmer, Lori
Return Date
Carrier Pace Courier
Location FL

Trip Blanks

☒ Include Trip Blanks

Bottle Labels

☐ Blank
☐ Pre-Printed No Sample IDs
☒ Pre-Printed With Sample IDs

Bottles

☐ Boxed Cases
☐ Individually Wrapped
☐ Grouped By Sample ID/Matrix

Return Shipping Labels

☐ No Shipper
☐ With Shipper

COC Options

☐ Number of Blanks
☒ Pre-Printed

Misc

☐ Sampling Instructions
☐ Custody Seal
☐ Temp. Blanks
☐ Coolers
☐ Syringes
☐ Extra Bubble Wrap
☐ Short Hold/Rush Stickers
☐ DI Water Liter(s)
☐ USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	8260 Full List	3-40mL vial HCl	3	0		
1	WT	8270 Full list plus PAHs	1L Amber Glass Unpreserved + 250 mL AG unpres	2	0		
1	WT	FL Pro Low Volume for Waters	2-100 ml glass amber H2SO4	2	0		
3	WT	Metals 200.8 Ag,Cd,Cr,Pb	250mL plastic w/HNO3	3	0		
1	WT	8270 Full list plus PAHs MS/MSD	2-1L Amber Glass Unpreserved + 250 mL AG unpres	4	4		
1	WT	FL PRO MS/MSD	100ml glass amber H2SO4	2	2		
1	WT	8260 Trip Blank	2-40ml vials w/HCL + DI	2	2		

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 8:00am-6:00pm unless special arrangements are made with your project manager.
*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:
Ship Date : 04/05/2021
Prepared By: Bo Pollard
Verified By:

Sample

CLIENT USE (Optional):
Date Rec'd:
Received By:
Verified By:

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-1

SAMPLE ID: MW-1- 04122021

DATE: 4/12/21

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 3.07

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.2 feet – 3.07 feet) X 0.16 gallons/foot = 1.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0

PURGING INITIATED AT: 917

PURGING ENDED AT: 940

TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/m or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
934	1.36	1.36	0.09	3.11	7.14	23.81	514	0.15	1.48	Clear	Slight	-223
937	0.24	1.6	↓	3.11	7.13	23.78	515	0.14	0.98	↓	organic	-226
940	0.24	1.84	↓	3.11	7.13	23.80	515	0.14	0.92	↓	"	-228

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/ECT

SAMPLER(S) SIGNATURE(S): Keith F Morrison

SAMPLING INITIATED AT: 941

SAMPLING ENDED AT: 943

PUMP OR TUBING DEPTH IN WELL (feet): 7.0

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N]

FILTER SIZE: ____ μm

Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1-041221	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	303

REMARKS: $Q = \frac{0.13 \text{ gal}}{96 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.089 \text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

17

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-2R

SAMPLE ID: MW-2-04122021

DATE: 4-12-21

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): ¼-OD 1/8-ID

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 3.49

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (11.4 feet – 3.49 feet) X 0.16 gallons/foot = 1.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0

PURGING INITIATED AT: 831

PURGING ENDED AT: 854

TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/m or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
848	1.36	1.36	0.08	3.64	6.96	23.64	520	0.34	4.43	Clear	slight	-195
851	0.24	1.6	↓	3.64	7.01	23.67	520	0.29	4.64	↓	organic	-199
854	0.24	1.84	↓	3.64	7.03	23.69	520	0.27	4.83	↓	↓	-194

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison / ECT

SAMPLER(S) SIGNATURE(S): Keith F Morrison

SAMPLING INITIATED AT: 855

SAMPLING ENDED AT: 920

PUMP OR TUBING DEPTH IN WELL (feet): 5.0

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N]

Filtration Equipment Type:

FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-2R-041221	3	CG	40 ml	HCl+ Ice	NONE	<2	8260-Volatile Organic Compounds by EPA Method 8260	APP	≈ 100 ≈ 300 rpm
↓	2 1	AG AG	250 ml 1L	Ice "	NONE "	-- "	8270-Semi-Volatile Organic Compounds by EPA Method 8270	APP APP	@303
	1	PE	250 ml	HNO3 + Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	@303
	2	AG	100 ml	H2SO4 + Ice	NONE	<2	TRPHs by FL-PRO Method	APP	@303
	+ QA/QC Samples								

REMARKS:

$Q = \frac{0.13 \text{ gal}}{97 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.08 \text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

17

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.
SITE LOCATION: 8755 NW 95th Street, Medley, FL
WELL NO: MW-3
SAMPLE ID: MW-3- 04122021
DATE: 4/12/21

PURGING DATA

WELL DIAMETER (inches): 2
TUBING DIAMETER (inches): 1/8-ID ¼-OD
WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet
STATIC DEPTH TO WATER (feet): 2.41
PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.6 feet – 2.41 feet) X 0.16 gallons/foot = 1.47 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0
PURGING INITIATED AT: 806
PURGING ENDED AT: 831
TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
825	1.52	1.52	0.08	2.60	6.75	22.02	493	1.26	2.21	Clear	None	+802
828	0.24	1.76	↓	2.60	6.75	22.04	494	1.24	2.15	↓	↓	+76.
831	0.24	2.0	↓	2.60	6.75	22.07	495	1.22	2.11	↓	↓	+71.

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/ECT
SAMPLER(S) SIGNATURE(S): Keith F. Morrison
SAMPLING INITIATED AT: 832
SAMPLING ENDED AT: 834
PUMP OR TUBING DEPTH IN WELL (feet): 7.0
TUBING MATERIAL CODE: HDPE
FIELD-FILTERED: Y [✓ N]
FILTER SIZE: ____ μm
Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)
DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	HNO3+ Ice	NONE	<2	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	303

MW-3-041221

REMARKS: $Q = \frac{0.13 \text{ gal}}{96 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.08 \text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

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2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Safety-Kleen Medley - Annual Groundwater Monitoring Event - per Industrial Waste Permit

Instrument Calibration and Field Verification Log

Instrument Make: InSitu / YSI
Model: SmarTroll / [✓ 556 MPS]
Identification: #4 | SN#
Sampler's Name / Signature: Keith F Morrison /
Date: (mm/dd/yy) 04/12/21

Procedure Type: ICV, CCV, Cal	[✓ icv], ccv, cal	icv, [✓ ccv], cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal	icv, ccv, cal
Standard Values Time	0640	1600							
pH 4.01 S.U.	4.04	4.05							
pH 7.00 S.U.	7.00	7.04							
pH 10.00 S.U.	9.96	10.03							
Within 0.2 S.U ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Conductivity 500 µS/cm Cal	499	503							
Conductivity 1000 µS/cm Ver	991	990							
Within 5% ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Temperature During D.O.	20.5 °C	23 °C	°C	°C	°C	°C	°C	°C	°C
D.O. mg/L @ Saturation	8.9 (99.4%)	8.6 (99.2%)							
Within 0.3 mg/L ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							
Temperature During ORP	20.5 °C	23 °C	°C	°C	°C	°C	°C	°C	°C
ORP in mV	236	234							
Within 10 mV ?	[✓ Pass] / Fail	[✓ Pass] / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail	Pass / Fail
Calibration Required?	Yes / [✓ No]	Yes / [✓ No]	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Sampler's Initials	KFM	KFM							

Calibration Solutions	Manufacturer	Lot Number	Expiration Date
pH 4.01 S.U.	Exaxol	200724C	02/2022
pH 7.00 S.U.	Exaxol	190715A	04/31/2022
pH 10.00 S.U.	Exaxol	200724D	02/2022
Conductivity 500 µS/cm Cal	Exaxol	200728B	04/2021
Conductivity 1000 µS/cm Ver	Exaxol	20072EA	08/2021
ORP: mV@°C per mfr. specs.	231 @ 25°C	200728E	08/2021

Notes Cal = Calibration
ICV = Initial Calibration Verification
CCV = Continued Calibration Verification

This form meets or exceeds the requirements of FDEP Form FD 9000-8

Safety-Kleen Medley
Annual Groundwater Monitoring Event per Industrial Waste Permit

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HACH 2100Q **INSTRUMENT #** SN# 16110C053546

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER ____________

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 10 NTUS Cat# 2960801 Lot# A8219
Standard B 20 NTUS Cat# 2604801 Lot# A8222
Standard C 100 NTUS Cat# 2604901 Lot# A8226

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
April 12, 2021	642	A	10 NTUS	10.1	±10%	Yes	INIT	KFM
	644	B	20 "	20.1	±9%	Yes	INIT	KFM
	646	C	100 "	99.6	±6.5%	Yes	INIT	KFM
	1612	A	10 "	10.2	±10%	Yes	Cont	KFM
	1614	B	20 "	19.8	±8%	Yes	Cont	KFM
	1616	C	100 "	98.1	±6.5%	Yes	Cont	KFM

ATTACHMENT B

LABORATORY REPORT

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

April 19, 2021

Keith Morrison
Environmental Consulting & Techlology
1408 North Westshore Bllvd
Suite 115
Tampa, FL 33607

RE: Project: Safety Kleen Facility
Pace Project No.: 35625214

Dear Keith Morrison:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: A/P, Environmental Consulting & Technology

CERTIFICATIONS

Project:	Safety Kleen Facility
Pace Project No.:	35625214

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

SAMPLE SUMMARY

Project: Safety Kleen Facility
Pace Project No.: 35625214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35625214001	**MW-2R-04122021**	Water	04/12/21 09:20	04/12/21 15:35
35625214002	**MW-1-04122021**	Water	04/12/21 09:43	04/12/21 15:35
35625214003	**MW-3-04122021**	Water	04/12/21 08:34	04/12/21 15:35
35625214004	**Trip Blank**	Water	04/12/21 08:34	04/12/21 15:35

SAMPLE ANALYTE COUNT

Project: Safety Kleen Facility
Pace Project No.: 35625214

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35625214001	**MW-2R-04122021**	FL-PRO	BMC	3
		EPA 200.8	SLG	4
		EPA 8270 by SIM	RJR	20
		EPA 8270	TWB	82
		EPA 8260	AST	57
35625214002	**MW-1-04122021**	EPA 200.8	SLG	4
35625214003	**MW-3-04122021**	EPA 200.8	SLG	4
35625214004	**Trip Blank**	EPA 8260	AST	57

PASI-O = Pace Analytical Services - Ormond Beach

ANALYTICAL RESULTS

Project:	Safety Kleen Facility
Pace Project No.:	35625214

Sample: MW-2R-04122021 **Lab ID: 35625214001** Collected: 04/12/21 09:20 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**0.75 U**	mg/L	0.94	0.75	1	04/13/21 16:56	04/14/21 01:16		
Surrogates									
o-Terphenyl (S)	73	%	66-139		1	04/13/21 16:56	04/14/21 01:16	84-15-1	
N-Pentatriacontane (S)	85	%	42-159		1	04/13/21 16:56	04/14/21 01:16	630-07-09	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/14/21 07:44	04/16/21 11:41	7440-43-9	
Chromium	**0.69 I**	ug/L	1.0	0.50	1	04/14/21 07:44	04/16/21 11:41	7440-47-3	
Lead	**0.22 U**	ug/L	1.0	0.22	1	04/14/21 07:44	04/16/21 11:41	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/14/21 07:44	04/16/21 11:41	7440-22-4	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.040 U**	ug/L	0.50	0.040	1	04/13/21 08:30	04/13/21 18:42	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	04/13/21 08:30	04/13/21 18:42	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	04/13/21 08:30	04/13/21 18:42	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	04/13/21 08:30	04/13/21 18:42	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	04/13/21 08:30	04/13/21 18:42	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	04/13/21 08:30	04/13/21 18:42	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	04/13/21 08:30	04/13/21 18:42	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	04/13/21 08:30	04/13/21 18:42	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	04/13/21 08:30	04/13/21 18:42	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	04/13/21 08:30	04/13/21 18:42	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	04/13/21 08:30	04/13/21 18:42	206-44-0	
Fluorene	**0.088 U**	ug/L	0.50	0.088	1	04/13/21 08:30	04/13/21 18:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	04/13/21 08:30	04/13/21 18:42	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	04/13/21 08:30	04/13/21 18:42	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	04/13/21 08:30	04/13/21 18:42	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	04/13/21 08:30	04/13/21 18:42	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	04/13/21 08:30	04/13/21 18:42	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	04/13/21 08:30	04/13/21 18:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	32-100		1	04/13/21 08:30	04/13/21 18:42	321-60-8	
p-Terphenyl-d14 (S)	69	%	48-112		1	04/13/21 08:30	04/13/21 18:42	1718-51-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.34 U**	ug/L	4.8	0.34	1	04/12/21 21:53	04/14/21 15:54	83-32-9	
Acenaphthylene	**0.29 U**	ug/L	4.8	0.29	1	04/12/21 21:53	04/14/21 15:54	208-96-8	
Aniline	**0.90 U**	ug/L	4.8	0.90	1	04/12/21 21:53	04/14/21 15:54	62-53-3	
Anthracene	**0.21 U**	ug/L	4.8	0.21	1	04/12/21 21:53	04/14/21 15:54	120-12-7	
Benzidine	**0.83 U**	ug/L	23.8	0.83	1	04/12/21 21:53	04/14/21 15:54	92-87-5	
Benzo(a)anthracene	**0.19 U**	ug/L	4.8	0.19	1	04/12/21 21:53	04/14/21 15:54	56-55-3	
Benzo(a)pyrene	**0.16 U**	ug/L	0.95	0.16	1	04/12/21 21:53	04/14/21 15:54	50-32-8	

ANALYTICAL RESULTS

Project:	Safety Kleen Facility
Pace Project No.:	35625214

Sample: MW-2R-04122021 **Lab ID: 35625214001** Collected: 04/12/21 09:20 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Benzo(b)fluoranthene	**0.26 U**	ug/L	1.9	0.26	1	04/12/21 21:53	04/14/21 15:54	205-99-2	
Benzo(g,h,i)perylene	**0.16 U**	ug/L	4.8	0.16	1	04/12/21 21:53	04/14/21 15:54	191-24-2	
Benzo(k)fluoranthene	**0.17 U**	ug/L	3.8	0.17	1	04/12/21 21:53	04/14/21 15:54	207-08-9	
Benzyl alcohol	**1.2 U**	ug/L	4.8	1.2	1	04/12/21 21:53	04/14/21 15:54	100-51-6	
4-Bromophenylphenyl ether	**1.6 U**	ug/L	4.8	1.6	1	04/12/21 21:53	04/14/21 15:54	101-55-3	
Butylbenzylphthalate	**1.1 U**	ug/L	4.8	1.1	1	04/12/21 21:53	04/14/21 15:54	85-68-7	
Caprolactam	**0.38 U**	ug/L	4.8	0.38	1	04/12/21 21:53	04/14/21 15:54	105-60-2	N2
Carbazole	**1.1 U**	ug/L	4.8	1.1	1	04/12/21 21:53	04/14/21 15:54	86-74-8	
4-Chloro-3-methylphenol	**5.2 U**	ug/L	19.1	5.2	1	04/12/21 21:53	04/14/21 15:54	59-50-7	
4-Chloroaniline	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	106-47-8	
bis(2-Chloroethoxy)methane	**1.5 U**	ug/L	4.8	1.5	1	04/12/21 21:53	04/14/21 15:54	111-91-1	
bis(2-Chloroethyl) ether	**0.32 U**	ug/L	3.8	0.32	1	04/12/21 21:53	04/14/21 15:54	111-44-4	
bis(2-Chloroisopropyl) ether	**1.7 U**	ug/L	5.7	1.7	1	04/12/21 21:53	04/14/21 15:54	108-60-1	
2-Chloronaphthalene	**0.32 U**	ug/L	4.8	0.32	1	04/12/21 21:53	04/14/21 15:54	91-58-7	
2-Chlorophenol	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	95-57-8	
4-Chlorophenylphenyl ether	**1.4 U**	ug/L	4.8	1.4	1	04/12/21 21:53	04/14/21 15:54	7005-72-3	
Chrysene	**0.19 U**	ug/L	4.8	0.19	1	04/12/21 21:53	04/14/21 15:54	218-01-9	
Dibenz(a,h)anthracene	**0.17 U**	ug/L	1.9	0.17	1	04/12/21 21:53	04/14/21 15:54	53-70-3	
Dibenzofuran	**1.4 U**	ug/L	4.8	1.4	1	04/12/21 21:53	04/14/21 15:54	132-64-9	
1,2-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	04/12/21 21:53	04/14/21 15:54	95-50-1	
1,3-Dichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	04/12/21 21:53	04/14/21 15:54	541-73-1	
1,4-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	04/12/21 21:53	04/14/21 15:54	106-46-7	
3,3'-Dichlorobenzidine	**1.0 U**	ug/L	9.5	1.0	1	04/12/21 21:53	04/14/21 15:54	91-94-1	
2,4-Dichlorophenol	**0.32 U**	ug/L	1.9	0.32	1	04/12/21 21:53	04/14/21 15:54	120-83-2	
Diethylphthalate	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	84-66-2	
2,4-Dimethylphenol	**0.98 U**	ug/L	4.8	0.98	1	04/12/21 21:53	04/14/21 15:54	105-67-9	
Dimethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	04/12/21 21:53	04/14/21 15:54	131-11-3	
Di-n-butylphthalate	**1.0 U**	ug/L	4.8	1.0	1	04/12/21 21:53	04/14/21 15:54	84-74-2	
4,6-Dinitro-2-methylphenol	**4.4 U**	ug/L	19.1	4.4	1	04/12/21 21:53	04/14/21 15:54	534-52-1	
1,2-Dinitrobenzene	**1.8 U**	ug/L	5.7	1.8	1	04/12/21 21:53	04/14/21 15:54	528-29-0	
1,3-Dinitrobenzene	**0.26 U**	ug/L	7.6	0.26	1	04/12/21 21:53	04/14/21 15:54	99-65-0	
2,4-Dinitrophenol	**2.5 U**	ug/L	19.1	2.5	1	04/12/21 21:53	04/14/21 15:54	51-28-5	
2,4-Dinitrotoluene	**0.26 U**	ug/L	3.8	0.26	1	04/12/21 21:53	04/14/21 15:54	121-14-2	
2,6-Dinitrotoluene	**0.27 U**	ug/L	1.9	0.27	1	04/12/21 21:53	04/14/21 15:54	606-20-2	
Di-n-octylphthalate	**0.88 U**	ug/L	4.8	0.88	1	04/12/21 21:53	04/14/21 15:54	117-84-0	
1,2-Diphenylhydrazine	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	122-66-7	
bis(2-Ethylhexyl)phthalate	**1.1 U**	ug/L	4.8	1.1	1	04/12/21 21:53	04/14/21 15:54	117-81-7	
Fluoranthene	**0.20 U**	ug/L	4.8	0.20	1	04/12/21 21:53	04/14/21 15:54	206-44-0	
Fluorene	**0.32 U**	ug/L	4.8	0.32	1	04/12/21 21:53	04/14/21 15:54	86-73-7	
Hexachloro-1,3-butadiene	**0.33 U**	ug/L	1.9	0.33	1	04/12/21 21:53	04/14/21 15:54	87-68-3	
Hexachlorobenzene	**0.28 U**	ug/L	0.95	0.28	1	04/12/21 21:53	04/14/21 15:54	118-74-1	
Hexachlorocyclopentadiene	**3.3 U**	ug/L	10.5	3.3	1	04/12/21 21:53	04/14/21 15:54	77-47-4	
Hexachloroethane	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.16 U**	ug/L	1.9	0.16	1	04/12/21 21:53	04/14/21 15:54	193-39-5	
Isophorone	**1.6 U**	ug/L	4.8	1.6	1	04/12/21 21:53	04/14/21 15:54	78-59-1	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: MW-2R-04122021 **Lab ID: 35625214001** Collected: 04/12/21 09:20 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
1-Methylnaphthalene	**0.34 U**	ug/L	4.8	0.34	1	04/12/21 21:53	04/14/21 15:54	90-12-0	
2-Methylnaphthalene	**0.27 U**	ug/L	4.8	0.27	1	04/12/21 21:53	04/14/21 15:54	91-57-6	
2-Methylphenol(o-Cresol)	**0.29 U**	ug/L	4.8	0.29	1	04/12/21 21:53	04/14/21 15:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.21 U**	ug/L	9.5	0.21	1	04/12/21 21:53	04/14/21 15:54		
Naphthalene	**0.37 U**	ug/L	4.8	0.37	1	04/12/21 21:53	04/14/21 15:54	91-20-3	
2-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	04/12/21 21:53	04/14/21 15:54	88-74-4	
3-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	04/12/21 21:53	04/14/21 15:54	99-09-2	
4-Nitroaniline	**0.18 U**	ug/L	3.8	0.18	1	04/12/21 21:53	04/14/21 15:54	100-01-6	
Nitrobenzene	**0.35 U**	ug/L	3.8	0.35	1	04/12/21 21:53	04/14/21 15:54	98-95-3	
2-Nitrophenol	**1.3 U**	ug/L	4.8	1.3	1	04/12/21 21:53	04/14/21 15:54	88-75-5	
4-Nitrophenol	**0.91 U**	ug/L	19.1	0.91	1	04/12/21 21:53	04/14/21 15:54	100-02-7	
N-Nitrosodimethylamine	**0.19 U**	ug/L	1.9	0.19	1	04/12/21 21:53	04/14/21 15:54	62-75-9	
N-Nitroso-di-n-propylamine	**0.31 U**	ug/L	3.8	0.31	1	04/12/21 21:53	04/14/21 15:54	621-64-7	
N-Nitrosodiphenylamine	**1.2 U**	ug/L	4.8	1.2	1	04/12/21 21:53	04/14/21 15:54	86-30-6	
Pentachlorophenol	**1.6 U**	ug/L	19.1	1.6	1	04/12/21 21:53	04/14/21 15:54	87-86-5	
Phenanthrene	**0.22 U**	ug/L	4.8	0.22	1	04/12/21 21:53	04/14/21 15:54	85-01-8	
Phenol	**0.60 U**	ug/L	4.8	0.60	1	04/12/21 21:53	04/14/21 15:54	108-95-2	
Pyrene	**0.20 U**	ug/L	4.8	0.20	1	04/12/21 21:53	04/14/21 15:54	129-00-0	
Pyridine	**1.1 U**	ug/L	4.8	1.1	1	04/12/21 21:53	04/14/21 15:54	110-86-1	
2,3,4,6-Tetrachlorophenol	**1.0 U**	ug/L	4.8	1.0	1	04/12/21 21:53	04/14/21 15:54	58-90-2	
2,3,5,6-Tetrachlorophenol	**1.8 U**	ug/L	8.6	1.8	1	04/12/21 21:53	04/14/21 15:54	935-95-5	N2
1,2,4-Trichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	04/12/21 21:53	04/14/21 15:54	120-82-1	
2,4,5-Trichlorophenol	**0.22 U**	ug/L	3.8	0.22	1	04/12/21 21:53	04/14/21 15:54	95-95-4	
2,4,6-Trichlorophenol	**0.34 U**	ug/L	1.9	0.34	1	04/12/21 21:53	04/14/21 15:54	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	40	%	10-188		1	04/12/21 21:53	04/14/21 15:54	4165-60-0	
2-Fluorobiphenyl (S)	47	%	22-101		1	04/12/21 21:53	04/14/21 15:54	321-60-8	
p-Terphenyl-d14 (S)	58	%	48-124		1	04/12/21 21:53	04/14/21 15:54	1718-51-0	
Phenol-d5 (S)	16	%	10-48		1	04/12/21 21:53	04/14/21 15:54	4165-62-2	
2-Fluorophenol (S)	22	%	10-57		1	04/12/21 21:53	04/14/21 15:54	367-12-4	
2,4,6-Tribromophenol (S)	64	%	28-114		1	04/12/21 21:53	04/14/21 15:54	118-79-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Acetone	**5.3 U**	ug/L	25.0	5.3	1		04/14/21 03:19	67-64-1	
Acetonitrile	**5.8 U**	ug/L	50.0	5.8	1		04/14/21 03:19	75-05-8	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 03:19	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		04/14/21 03:19	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	1.0	0.19	1		04/14/21 03:19	75-27-4	
Bromoform	**1.0 U**	ug/L	3.0	1.0	1		04/14/21 03:19	75-25-2	
Bromomethane	**2.3 U**	ug/L	10.0	2.3	1		04/14/21 03:19	74-83-9	J(v2)
2-Butanone (MEK)	**3.4 U**	ug/L	50.0	3.4	1		04/14/21 03:19	78-93-3	
Carbon disulfide	**1.8 U**	ug/L	10.0	1.8	1		04/14/21 03:19	75-15-0	
Carbon tetrachloride	**0.44 U**	ug/L	3.0	0.44	1		04/14/21 03:19	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		04/14/21 03:19	108-90-7	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: MW-2R-04122021 **Lab ID: 35625214001** Collected: 04/12/21 09:20 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Chloroethane	**1.4 U**	ug/L	10.0	1.4	1		04/14/21 03:19	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		04/14/21 03:19	67-66-3	
Chloromethane	**0.96 U**	ug/L	1.0	0.96	1		04/14/21 03:19	74-87-3	
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		04/14/21 03:19	96-12-8	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		04/14/21 03:19	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		04/14/21 03:19	106-93-4	
Dibromomethane	**0.24 U**	ug/L	2.0	0.24	1		04/14/21 03:19	74-95-3	
1,2-Dichlorobenzene	**0.60 U**	ug/L	1.0	0.60	1		04/14/21 03:19	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		04/14/21 03:19	106-46-7	
trans-1,4-Dichloro-2-butene	**0.53 U**	ug/L	10.0	0.53	1		04/14/21 03:19	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		04/14/21 03:19	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 03:19	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 03:19	540-59-0	N2
1,1-Dichloroethene	**0.59 U**	ug/L	1.0	0.59	1		04/14/21 03:19	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 03:19	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		04/14/21 03:19	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		04/14/21 03:19	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	1.0	0.17	1		04/14/21 03:19	10061-01-5	
trans-1,3-Dichloropropene	**0.37 U**	ug/L	1.0	0.37	1		04/14/21 03:19	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 03:19	100-41-4	
2-Hexanone	**3.2 U**	ug/L	25.0	3.2	1		04/14/21 03:19	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		04/14/21 03:19	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 03:19	98-82-8	
Methylene Chloride	**1.5 U**	ug/L	5.0	1.5	1		04/14/21 03:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8 U**	ug/L	25.0	2.8	1		04/14/21 03:19	108-10-1	
Methyl-tert-butyl ether	**0.53 U**	ug/L	5.0	0.53	1		04/14/21 03:19	1634-04-4	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		04/14/21 03:19	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		04/14/21 03:19	630-20-6	
1,1,2,2-Tetrachloroethane	**0.18 U**	ug/L	1.0	0.18	1		04/14/21 03:19	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		04/14/21 03:19	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		04/14/21 03:19	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 03:19	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 03:19	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		04/14/21 03:19	79-01-6	
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		04/14/21 03:19	75-69-4	
1,2,3-Trichloropropane	**0.53 U**	ug/L	2.0	0.53	1		04/14/21 03:19	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		04/14/21 03:19	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		04/14/21 03:19	108-67-8	
Vinyl acetate	**0.84 U**	ug/L	10.0	0.84	1		04/14/21 03:19	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		04/14/21 03:19	75-01-4	
Xylene (Total)	**0.63 U**	ug/L	5.0	0.63	1		04/14/21 03:19	1330-20-7	
m&p-Xylene	**0.63 U**	ug/L	4.0	0.63	1		04/14/21 03:19	179601-23-1	
o-Xylene	**0.57 U**	ug/L	1.0	0.57	1		04/14/21 03:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/14/21 03:19	460-00-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: MW-2R-04122021 **Lab ID: 35625214001** Collected: 04/12/21 09:20 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/14/21 03:19	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		04/14/21 03:19	2199-69-1	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: MW-1-04122021 **Lab ID: 35625214002** Collected: 04/12/21 09:43 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/14/21 07:44	04/16/21 11:43	7440-43-9	
Chromium	**0.60 I**	ug/L	1.0	0.50	1	04/14/21 07:44	04/16/21 11:43	7440-47-3	
Lead	**0.22 U**	ug/L	1.0	0.22	1	04/14/21 07:44	04/16/21 11:43	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/14/21 07:44	04/16/21 11:43	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: MW-3-04122021 **Lab ID: 35625214003** Collected: 04/12/21 08:34 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/14/21 07:44	04/16/21 11:46	7440-43-9	
Chromium	**0.57 I**	ug/L	1.0	0.50	1	04/14/21 07:44	04/16/21 11:46	7440-47-3	
Lead	**0.82 I**	ug/L	1.0	0.22	1	04/14/21 07:44	04/16/21 11:46	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/14/21 07:44	04/16/21 11:46	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: Trip Blank **Lab ID: 35625214004** Collected: 04/12/21 08:34 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Acetone	**5.3 U**	ug/L	25.0	5.3	1		04/14/21 01:42	67-64-1	
Acetonitrile	**5.8 U**	ug/L	50.0	5.8	1		04/14/21 01:42	75-05-8	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 01:42	71-43-2	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		04/14/21 01:42	74-97-5	
Bromodichloromethane	**0.19 U**	ug/L	1.0	0.19	1		04/14/21 01:42	75-27-4	
Bromoform	**1.0 U**	ug/L	3.0	1.0	1		04/14/21 01:42	75-25-2	
Bromomethane	**2.3 U**	ug/L	10.0	2.3	1		04/14/21 01:42	74-83-9	J(v2)
2-Butanone (MEK)	**3.4 U**	ug/L	50.0	3.4	1		04/14/21 01:42	78-93-3	
Carbon disulfide	**1.8 U**	ug/L	10.0	1.8	1		04/14/21 01:42	75-15-0	
Carbon tetrachloride	**0.44 U**	ug/L	3.0	0.44	1		04/14/21 01:42	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		04/14/21 01:42	108-90-7	
Chloroethane	**1.4 U**	ug/L	10.0	1.4	1		04/14/21 01:42	75-00-3	
Chloroform	**0.32 U**	ug/L	1.0	0.32	1		04/14/21 01:42	67-66-3	
Chloromethane	**0.96 U**	ug/L	1.0	0.96	1		04/14/21 01:42	74-87-3	
1,2-Dibromo-3-chloropropane	**1.9 U**	ug/L	5.0	1.9	1		04/14/21 01:42	96-12-8	
Dibromochloromethane	**0.45 U**	ug/L	2.0	0.45	1		04/14/21 01:42	124-48-1	
1,2-Dibromoethane (EDB)	**0.31 U**	ug/L	1.0	0.31	1		04/14/21 01:42	106-93-4	
Dibromomethane	**0.24 U**	ug/L	2.0	0.24	1		04/14/21 01:42	74-95-3	
1,2-Dichlorobenzene	**0.60 U**	ug/L	1.0	0.60	1		04/14/21 01:42	95-50-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		04/14/21 01:42	106-46-7	
trans-1,4-Dichloro-2-butene	**0.53 U**	ug/L	10.0	0.53	1		04/14/21 01:42	110-57-6	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		04/14/21 01:42	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 01:42	107-06-2	
1,2-Dichloroethene (Total)	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 01:42	540-59-0	N2
1,1-Dichloroethene	**0.59 U**	ug/L	1.0	0.59	1		04/14/21 01:42	75-35-4	
cis-1,2-Dichloroethene	**0.27 U**	ug/L	1.0	0.27	1		04/14/21 01:42	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		04/14/21 01:42	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		04/14/21 01:42	78-87-5	
cis-1,3-Dichloropropene	**0.17 U**	ug/L	1.0	0.17	1		04/14/21 01:42	10061-01-5	
trans-1,3-Dichloropropene	**0.37 U**	ug/L	1.0	0.37	1		04/14/21 01:42	10061-02-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 01:42	100-41-4	
2-Hexanone	**3.2 U**	ug/L	25.0	3.2	1		04/14/21 01:42	591-78-6	
Iodomethane	**9.3 U**	ug/L	10.0	9.3	1		04/14/21 01:42	74-88-4	J(v2)
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 01:42	98-82-8	
Methylene Chloride	**1.5 U**	ug/L	5.0	1.5	1		04/14/21 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.8 U**	ug/L	25.0	2.8	1		04/14/21 01:42	108-10-1	
Methyl-tert-butyl ether	**0.53 U**	ug/L	5.0	0.53	1		04/14/21 01:42	1634-04-4	
Styrene	**0.26 U**	ug/L	1.0	0.26	1		04/14/21 01:42	100-42-5	
1,1,1,2-Tetrachloroethane	**0.32 U**	ug/L	1.0	0.32	1		04/14/21 01:42	630-20-6	
1,1,2,2-Tetrachloroethane	**0.18 U**	ug/L	1.0	0.18	1		04/14/21 01:42	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		04/14/21 01:42	127-18-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		04/14/21 01:42	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 01:42	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/14/21 01:42	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		04/14/21 01:42	79-01-6	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35625214

Sample: Trip Blank **Lab ID: 35625214004** Collected: 04/12/21 08:34 Received: 04/12/21 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Trichlorofluoromethane	**0.35 U**	ug/L	1.0	0.35	1		04/14/21 01:42	75-69-4	
1,2,3-Trichloropropane	**0.53 U**	ug/L	2.0	0.53	1		04/14/21 01:42	96-18-4	
1,2,4-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		04/14/21 01:42	95-63-6	
1,3,5-Trimethylbenzene	**0.24 U**	ug/L	1.0	0.24	1		04/14/21 01:42	108-67-8	
Vinyl acetate	**0.84 U**	ug/L	10.0	0.84	1		04/14/21 01:42	108-05-4	
Vinyl chloride	**0.39 U**	ug/L	1.0	0.39	1		04/14/21 01:42	75-01-4	
Xylene (Total)	**0.63 U**	ug/L	5.0	0.63	1		04/14/21 01:42	1330-20-7	
m&p-Xylene	**0.63 U**	ug/L	4.0	0.63	1		04/14/21 01:42	179601-23-1	
o-Xylene	**0.57 U**	ug/L	1.0	0.57	1		04/14/21 01:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/14/21 01:42	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		04/14/21 01:42	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/14/21 01:42	2199-69-1	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

QC Batch: 720807
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625214001, 35625214002, 35625214003

METHOD BLANK: 3928676 Matrix: Water
Associated Lab Samples: 35625214001, 35625214002, 35625214003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	04/14/21 13:59	
Chromium	ug/L	0.50 U	1.0	0.50	04/14/21 13:59	
Lead	ug/L	0.22 U	1.0	0.22	04/14/21 13:59	
Silver	ug/L	0.21 U	0.50	0.21	04/14/21 13:59	

LABORATORY CONTROL SAMPLE: 3928677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	4.9	97	85-115	
Chromium	ug/L	50	46.1	92	85-115	
Lead	ug/L	50	47.1	94	85-115	
Silver	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928678 3928679

Parameter	Units	35623077001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.000050 U mg/L	5	5	4.0	4.0	80	80	70-130	0	20	
Chromium	ug/L	0.0013 mg/L	50	50	39.9	39.7	77	77	70-130	0	20	
Lead	ug/L	0.00022 U mg/L	50	50	42.1	41.8	84	84	70-130	1	20	
Silver	ug/L	0.00035 I mg/L	5	5	4.2	4.2	77	77	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928680 3928681

Parameter	Units	35624869002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.000050 U mg/L	5	5	4.2	4.2	83	84	70-130	2	20	
Chromium	ug/L	0.0032 mg/L	50	50	42.7	43.5	79	81	70-130	2	20	
Lead	ug/L	0.00022 U mg/L	50	50	42.3	43.0	84	86	70-130	2	20	
Silver	ug/L	0.00021 U mg/L	5	5	4.0	4.1	81	82	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

QC Batch: 720766
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625214001, 35625214004

METHOD BLANK: 3928445
Matrix: Water
Associated Lab Samples: 35625214001, 35625214004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	1.0	0.32	04/14/21 00:29	
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/14/21 00:29	
1,1,2,2-Tetrachloroethane	ug/L	0.18 U	1.0	0.18	04/14/21 00:29	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/14/21 00:29	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	04/14/21 00:29	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	04/14/21 00:29	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	04/14/21 00:29	
1,2,4-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	04/14/21 00:29	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	5.0	1.9	04/14/21 00:29	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	1.0	0.31	04/14/21 00:29	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	04/14/21 00:29	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	04/14/21 00:29	
1,2-Dichloroethene (Total)	ug/L	0.27 U	1.0	0.27	04/14/21 00:29	N2
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	04/14/21 00:29	
1,3,5-Trimethylbenzene	ug/L	0.24 U	1.0	0.24	04/14/21 00:29	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	04/14/21 00:29	
2-Butanone (MEK)	ug/L	3.4 U	50.0	3.4	04/14/21 00:29	
2-Hexanone	ug/L	3.2 U	25.0	3.2	04/14/21 00:29	
4-Methyl-2-pentanone (MIBK)	ug/L	2.8 U	25.0	2.8	04/14/21 00:29	
Acetone	ug/L	5.3 U	25.0	5.3	04/14/21 00:29	
Acetonitrile	ug/L	5.8 U	50.0	5.8	04/14/21 00:29	
Benzene	ug/L	0.30 U	1.0	0.30	04/14/21 00:29	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	04/14/21 00:29	
Bromodichloromethane	ug/L	0.19 U	1.0	0.19	04/14/21 00:29	
Bromoform	ug/L	1.0 U	3.0	1.0	04/14/21 00:29	
Bromomethane	ug/L	2.3 U	10.0	2.3	04/14/21 00:29	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	04/14/21 00:29	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	04/14/21 00:29	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	04/14/21 00:29	
Chloroethane	ug/L	1.4 U	10.0	1.4	04/14/21 00:29	
Chloroform	ug/L	0.32 U	1.0	0.32	04/14/21 00:29	
Chloromethane	ug/L	0.96 U	1.0	0.96	04/14/21 00:29	
cis-1,2-Dichloroethene	ug/L	0.27 U	1.0	0.27	04/14/21 00:29	
cis-1,3-Dichloropropene	ug/L	0.17 U	1.0	0.17	04/14/21 00:29	
Dibromochloromethane	ug/L	0.45 U	2.0	0.45	04/14/21 00:29	
Dibromomethane	ug/L	0.24 U	2.0	0.24	04/14/21 00:29	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	04/14/21 00:29	
Iodomethane	ug/L	9.3 U	10.0	9.3	04/14/21 00:29	J(v2)
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	04/14/21 00:29	
m&p-Xylene	ug/L	0.63 U	4.0	0.63	04/14/21 00:29	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

METHOD BLANK: 3928445 Matrix: Water
Associated Lab Samples: 35625214001, 35625214004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	0.53 U	5.0	0.53	04/14/21 00:29	
Methylene Chloride	ug/L	1.5 U	5.0	1.5	04/14/21 00:29	
o-Xylene	ug/L	0.57 U	1.0	0.57	04/14/21 00:29	
Styrene	ug/L	0.26 U	1.0	0.26	04/14/21 00:29	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	04/14/21 00:29	
Toluene	ug/L	0.33 U	1.0	0.33	04/14/21 00:29	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	04/14/21 00:29	
trans-1,3-Dichloropropene	ug/L	0.37 U	1.0	0.37	04/14/21 00:29	
trans-1,4-Dichloro-2-butene	ug/L	0.53 U	10.0	0.53	04/14/21 00:29	
Trichloroethene	ug/L	0.36 U	1.0	0.36	04/14/21 00:29	
Trichlorofluoromethane	ug/L	0.35 U	1.0	0.35	04/14/21 00:29	
Vinyl acetate	ug/L	0.84 U	10.0	0.84	04/14/21 00:29	
Vinyl chloride	ug/L	0.39 U	1.0	0.39	04/14/21 00:29	
Xylene (Total)	ug/L	0.63 U	5.0	0.63	04/14/21 00:29	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130		04/14/21 00:29	
4-Bromofluorobenzene (S)	%	94	70-130		04/14/21 00:29	
Toluene-d8 (S)	%	97	70-130		04/14/21 00:29	

LABORATORY CONTROL SAMPLE: 3928446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.7	108	70-130	
1,1,1-Trichloroethane	ug/L	20	21.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	23.0	115	68-125	
1,1,2-Trichloroethane	ug/L	20	22.8	114	70-130	
1,1-Dichloroethane	ug/L	20	22.5	113	70-130	
1,1-Dichloroethene	ug/L	20	22.9	115	66-133	
1,2,3-Trichloropropane	ug/L	20	22.8	114	62-127	
1,2,4-Trimethylbenzene	ug/L	20	21.4	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.2	101	45-137	
1,2-Dibromoethane (EDB)	ug/L	20	22.2	111	70-130	
1,2-Dichlorobenzene	ug/L	20	21.4	107	70-130	
1,2-Dichloroethane	ug/L	20	22.0	110	70-130	
1,2-Dichloroethene (Total)	ug/L	40	44.0	110	70-130	N2
1,2-Dichloropropane	ug/L	20	21.5	108	70-130	
1,3,5-Trimethylbenzene	ug/L	20	22.3	112	70-130	
1,4-Dichlorobenzene	ug/L	20	21.5	107	70-130	
2-Butanone (MEK)	ug/L	100	101	101	47-143	
2-Hexanone	ug/L	100	111	111	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	57-132	
Acetone	ug/L	100	103	103	46-148	
Acetonitrile	ug/L	100	100	100	33-175	
Benzene	ug/L	20	21.7	108	70-130	
Bromochloromethane	ug/L	20	21.6	108	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

LABORATORY CONTROL SAMPLE: 3928446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	21.4	107	70-130	
Bromoform	ug/L	20	19.8	99	49-126	
Bromomethane	ug/L	20	11.8	59	10-165	J(v3)
Carbon disulfide	ug/L	20	22.4	112	60-141	
Carbon tetrachloride	ug/L	20	22.1	111	63-126	
Chlorobenzene	ug/L	20	21.7	108	70-130	
Chloroethane	ug/L	20	18.6	93	71-142	
Chloroform	ug/L	20	22.4	112	70-130	
Chloromethane	ug/L	20	19.0	95	40-140	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	70-130	
cis-1,3-Dichloropropene	ug/L	20	22.5	113	70-130	
Dibromochloromethane	ug/L	20	21.4	107	62-118	
Dibromomethane	ug/L	20	21.7	109	70-130	
Ethylbenzene	ug/L	20	21.4	107	70-130	
Iodomethane	ug/L	20	9.3 U	24	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	20	22.4	112	70-130	
m&p-Xylene	ug/L	40	43.7	109	70-130	
Methyl-tert-butyl ether	ug/L	20	22.1	110	64-124	
Methylene Chloride	ug/L	20	21.6	108	65-136	
o-Xylene	ug/L	20	21.5	107	70-130	
Styrene	ug/L	20	22.8	114	70-130	
Tetrachloroethene	ug/L	20	22.0	110	64-134	
Toluene	ug/L	20	21.6	108	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.5	112	68-127	
trans-1,3-Dichloropropene	ug/L	20	23.4	117	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	18.0	90	42-129	
Trichloroethene	ug/L	20	21.6	108	70-130	
Trichlorofluoromethane	ug/L	20	19.2	96	65-135	
Vinyl acetate	ug/L	20	21.9	110	60-144	
Vinyl chloride	ug/L	20	17.2	86	68-131	
Xylene (Total)	ug/L	60	65.2	109	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3928448

Parameter	Units	35625332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	20	21.4	107	70-130	
1,1,1-Trichloroethane	ug/L	0.30 U	20	22.8	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.18 U	20	20.8	104	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	20.9	105	70-130	
1,1-Dichloroethane	ug/L	0.34 U	20	23.3	117	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	25.1	126	66-133	
1,2,3-Trichloropropane	ug/L	0.53 U	20	20.3	102	62-127	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

MATRIX SPIKE SAMPLE: 3928448

Parameter	Units	35625332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	0.24 U	20	20.9	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	20	16.7	84	45-137	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	0.60 U	20	20.9	104	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	22.0	110	70-130	
1,2-Dichloroethene (Total)	ug/L	0.27 U	40	44.3	111	70-130	N2
1,2-Dichloropropane	ug/L	0.23 U	20	21.9	110	70-130	
1,3,5-Trimethylbenzene	ug/L	0.24 U	20	21.8	109	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	3.4 U	100	87.6	88	47-143	
2-Hexanone	ug/L	3.2 U	100	89.3	89	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	2.8 U	100	91.7	92	57-132	
Acetone	ug/L	5.3 U	100	92.9	93	46-148	
Acetonitrile	ug/L	5.8 U	100	102	102	33-175	
Benzene	ug/L	0.30 U	20	22.5	112	70-130	
Bromochloromethane	ug/L	0.37 U	20	22.3	111	70-130	
Bromodichloromethane	ug/L	0.19 U	20	22.0	110	70-130	
Bromoform	ug/L	1.0 U	20	19.7	99	49-126	
Bromomethane	ug/L	2.3 U	20	10.5	53	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	23.6	118	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	23.9	120	63-126	
Chlorobenzene	ug/L	0.35 U	20	21.3	107	70-130	
Chloroethane	ug/L	1.4 U	20	20.4	102	71-142	
Chloroform	ug/L	0.32 U	20	23.2	116	70-130	
Chloromethane	ug/L	0.96 U	20	18.8	94	40-140	
cis-1,2-Dichloroethene	ug/L	0.27 U	20	21.7	109	70-130	
cis-1,3-Dichloropropene	ug/L	0.17 U	20	18.8	94	70-130	
Dibromochloromethane	ug/L	0.45 U	20	20.6	103	62-118	
Dibromomethane	ug/L	0.24 U	20	20.9	104	70-130	
Ethylbenzene	ug/L	0.30 U	20	21.1	105	70-130	
Iodomethane	ug/L	9.3 U	20	9.5 I	47	10-164	J(v3)
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	21.9	110	70-130	
m&p-Xylene	ug/L	0.63 U	40	43.3	108	70-130	
Methyl-tert-butyl ether	ug/L	0.53 U	20	19.9	99	64-124	
Methylene Chloride	ug/L	1.5 U	20	20.9	104	65-136	
o-Xylene	ug/L	0.57 U	20	21.0	105	70-130	
Styrene	ug/L	0.26 U	20	22.5	112	70-130	
Tetrachloroethene	ug/L	0.38 U	20	20.3	102	64-134	
Toluene	ug/L	0.33 U	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	22.6	113	68-127	
trans-1,3-Dichloropropene	ug/L	0.37 U	20	21.3	107	65-121	
trans-1,4-Dichloro-2-butene	ug/L	0.53 U	20	21.4	107	42-129	
Trichloroethene	ug/L	0.36 U	20	21.7	108	70-130	
Trichlorofluoromethane	ug/L	0.35 U	20	22.2	111	65-135	
Vinyl acetate	ug/L	0.84 U	20	16.4	82	60-144	
Vinyl chloride	ug/L	0.39 U	20	18.9	95	68-131	
Xylene (Total)	ug/L	0.63 U	60	64.3	107	70-130	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

MATRIX SPIKE SAMPLE: 3928448

Parameter	Units	35625332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 3928447

Parameter	Units	35624882011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.32 U	0.32 U		40	
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.18 U	0.18 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2,4-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,2-Dibromo-3-chloropropane	ug/L	1.9 U	1.9 U		40	
1,2-Dibromoethane (EDB)	ug/L	0.31 U	0.31 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloroethene (Total)	ug/L	0.27 U	0.27 U		40	N2
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.24 U	0.24 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	3.4 U	3.4 U		40	
2-Hexanone	ug/L	3.2 U	3.2 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	2.8 U	2.8 U		40	
Acetone	ug/L	5.3 U	5.3 U		40	
Acetonitrile	ug/L	5.8 U	5.8 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.19 U	0.19 U		40	
Bromoform	ug/L	1.0 U	1.0 U		40	
Bromomethane	ug/L	2.3 U	2.3 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	1.4 U	1.4 U		40	
Chloroform	ug/L	0.32 U	0.32 U		40	
Chloromethane	ug/L	0.96 U	0.96 U		40	
cis-1,2-Dichloroethene	ug/L	0.27 U	0.27 U		40	
cis-1,3-Dichloropropene	ug/L	0.17 U	0.17 U		40	
Dibromochloromethane	ug/L	0.45 U	0.45 U		40	
Dibromomethane	ug/L	0.24 U	0.24 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Iodomethane	ug/L	9.3 U	9.3 U		40	J(v2)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

SAMPLE DUPLICATE: 3928447

Parameter	Units	35624882011 Result	Dup Result	RPD	Max RPD	Qualifiers
Isopropylbenzene (Cumene)	ug/L	0.30 U	0.30 U		40	
m&p-Xylene	ug/L	0.63 U	0.63 U		40	
Methyl-tert-butyl ether	ug/L	0.53 U	0.53 U		40	
Methylene Chloride	ug/L	1.5 U	1.5 U		40	
o-Xylene	ug/L	0.57 U	0.57 U		40	
Styrene	ug/L	0.26 U	0.26 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
trans-1,3-Dichloropropene	ug/L	0.37 U	0.37 U		40	
trans-1,4-Dichloro-2-butene	ug/L	0.53 U	0.53 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.35 U	0.35 U		40	
Vinyl acetate	ug/L	0.84 U	0.84 U		40	
Vinyl chloride	ug/L	0.39 U	0.39 U		40	
Xylene (Total)	ug/L	0.63 U	0.63 U		40	
1,2-Dichlorobenzene-d4 (S)	%	106	107		40	
4-Bromofluorobenzene (S)	%	92	94		40	
Toluene-d8 (S)	%	97	98		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

QC Batch: 720473
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAHLV by SIM MSSV
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35625214001

METHOD BLANK: 3926580 Matrix: Water

Associated Lab Samples: 35625214001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	04/13/21 11:54	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	04/13/21 11:54	
Acenaphthene	ug/L	0.040 U	0.50	0.040	04/13/21 11:54	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	04/13/21 11:54	
Anthracene	ug/L	0.043 U	0.50	0.043	04/13/21 11:54	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	04/13/21 11:54	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	04/13/21 11:54	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	04/13/21 11:54	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	04/13/21 11:54	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	04/13/21 11:54	
Chrysene	ug/L	0.026 U	0.50	0.026	04/13/21 11:54	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	04/13/21 11:54	
Fluoranthene	ug/L	0.018 U	0.50	0.018	04/13/21 11:54	
Fluorene	ug/L	0.088 U	0.50	0.088	04/13/21 11:54	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	04/13/21 11:54	
Naphthalene	ug/L	0.29 U	2.0	0.29	04/13/21 11:54	
Phenanthrene	ug/L	0.16 U	0.50	0.16	04/13/21 11:54	
Pyrene	ug/L	0.032 U	0.50	0.032	04/13/21 11:54	
2-Fluorobiphenyl (S)	%	54	32-100		04/13/21 11:54	
p-Terphenyl-d14 (S)	%	74	48-112		04/13/21 11:54	

LABORATORY CONTROL SAMPLE: 3926581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	2.9	58	34-103	
2-Methylnaphthalene	ug/L	5	2.8	57	35-100	
Acenaphthene	ug/L	5	2.9	58	38-102	
Acenaphthylene	ug/L	5	2.7	55	35-97	
Anthracene	ug/L	5	3.5	69	46-107	
Benzo(a)anthracene	ug/L	5	4.1	83	55-113	
Benzo(a)pyrene	ug/L	5	4.7	93	51-112	
Benzo(b)fluoranthene	ug/L	5	4.9	98	58-116	
Benzo(g,h,i)perylene	ug/L	5	4.1	81	45-116	
Benzo(k)fluoranthene	ug/L	5	5.0	99	58-118	
Chrysene	ug/L	5	4.6	92	58-120	
Dibenz(a,h)anthracene	ug/L	5	4.2	84	46-114	
Fluoranthene	ug/L	5	4.1	83	54-118	
Fluorene	ug/L	5	3.1	61	40-105	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.1	83	46-114	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

LABORATORY CONTROL SAMPLE: 3926581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	5	2.8	56	34-97	
Phenanthrene	ug/L	5	3.5	70	47-110	
Pyrene	ug/L	5	4.2	83	54-117	
2-Fluorobiphenyl (S)	%			54	32-100	
p-Terphenyl-d14 (S)	%			72	48-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926582 3926583

Parameter	Units	35625202006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.27 I	5	5	2.7	2.5	49	45	34-103	7	40	
2-Methylnaphthalene	ug/L	0.68 U	5	5	2.8	2.6	46	43	35-100	6	40	
Acenaphthene	ug/L	0.040 U	5	5	2.6	2.5	51	49	38-102	4	40	
Acenaphthylene	ug/L	0.030 U	5	5	2.4	2.3	48	46	35-97	5	40	
Anthracene	ug/L	0.043 U	5	5	3.1	3.3	63	66	46-107	5	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	3.8	3.8	76	77	55-113	1	40	
Benzo(a)pyrene	ug/L	0.12 U	5	5	4.2	4.3	85	86	51-112	2	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	4.5	4.5	89	90	58-116	0	40	
Benzo(g,h,i)perylene	ug/L	0.15 U	5	5	3.7	3.8	75	75	45-116	1	40	
Benzo(k)fluoranthene	ug/L	0.16 U	5	5	4.5	4.5	89	90	58-118	1	40	
Chrysene	ug/L	0.026 U	5	5	4.2	4.2	84	84	58-120	1	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	3.8	3.9	77	78	46-114	1	40	
Fluoranthene	ug/L	0.018 U	5	5	3.8	3.9	76	79	54-118	3	40	
Fluorene	ug/L	0.088 U	5	5	2.7	2.8	55	56	40-105	2	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	3.8	3.8	75	77	46-114	2	40	
Naphthalene	ug/L	0.96 I	5	5	3.1	3.0	44	41	34-97	4	40	
Phenanthrene	ug/L	0.16 U	5	5	3.2	3.4	65	69	47-110	6	40	
Pyrene	ug/L	0.032 U	5	5	3.8	4.0	77	79	54-117	4	40	
2-Fluorobiphenyl (S)	%						49	46	32-100			
p-Terphenyl-d14 (S)	%						66	66	48-112			

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

QC Batch: 720426
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water Full List MSSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625214001

METHOD BLANK: 3926308
Matrix: Water
Associated Lab Samples: 35625214001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
1,2-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/14/21 10:04	
1,2-Dinitrobenzene	ug/L	1.9 U	6.0	1.9	04/14/21 10:04	
1,2-Diphenylhydrazine	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
1,3-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/14/21 10:04	
1,3-Dinitrobenzene	ug/L	0.27 U	8.0	0.27	04/14/21 10:04	
1,4-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/14/21 10:04	
1-Methylnaphthalene	ug/L	0.36 U	5.0	0.36	04/14/21 10:04	
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	5.0	1.0	04/14/21 10:04	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	9.0	1.9	04/14/21 10:04	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	4.0	0.23	04/14/21 10:04	
2,4,6-Trichlorophenol	ug/L	0.36 U	2.0	0.36	04/14/21 10:04	
2,4-Dichlorophenol	ug/L	0.34 U	2.0	0.34	04/14/21 10:04	
2,4-Dimethylphenol	ug/L	1.0 U	5.0	1.0	04/14/21 10:04	
2,4-Dinitrophenol	ug/L	2.6 U	20.0	2.6	04/14/21 10:04	
2,4-Dinitrotoluene	ug/L	0.27 U	4.0	0.27	04/14/21 10:04	
2,6-Dinitrotoluene	ug/L	0.28 U	2.0	0.28	04/14/21 10:04	
2-Chloronaphthalene	ug/L	0.34 U	5.0	0.34	04/14/21 10:04	
2-Chlorophenol	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
2-Methylnaphthalene	ug/L	0.28 U	5.0	0.28	04/14/21 10:04	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	5.0	0.30	04/14/21 10:04	
2-Nitroaniline	ug/L	1.3 U	5.0	1.3	04/14/21 10:04	
2-Nitrophenol	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
3&4-Methylphenol(m&p Cresol)	ug/L	0.22 U	10.0	0.22	04/14/21 10:04	
3,3'-Dichlorobenzidine	ug/L	1.0 U	10.0	1.0	04/14/21 10:04	
3-Nitroaniline	ug/L	1.3 U	5.0	1.3	04/14/21 10:04	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	20.0	4.6	04/14/21 10:04	
4-Bromophenylphenyl ether	ug/L	1.7 U	5.0	1.7	04/14/21 10:04	
4-Chloro-3-methylphenol	ug/L	5.4 U	20.0	5.4	04/14/21 10:04	
4-Chloroaniline	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
4-Chlorophenylphenyl ether	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
4-Nitroaniline	ug/L	0.19 U	4.0	0.19	04/14/21 10:04	
4-Nitrophenol	ug/L	0.95 U	20.0	0.95	04/14/21 10:04	
Acenaphthene	ug/L	0.36 U	5.0	0.36	04/14/21 10:04	
Acenaphthylene	ug/L	0.30 U	5.0	0.30	04/14/21 10:04	
Aniline	ug/L	0.94 U	5.0	0.94	04/14/21 10:04	
Anthracene	ug/L	0.22 U	5.0	0.22	04/14/21 10:04	
Benzidine	ug/L	0.87 U	25.0	0.87	04/14/21 10:04	
Benzo(a)anthracene	ug/L	0.20 U	5.0	0.20	04/14/21 10:04	
Benzo(a)pyrene	ug/L	0.17 U	1.0	0.17	04/14/21 10:04	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

METHOD BLANK: 3926308 Matrix: Water
Associated Lab Samples: 35625214001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(b)fluoranthene	ug/L	0.27 U	2.0	0.27	04/14/21 10:04	
Benzo(g,h,i)perylene	ug/L	0.17 U	5.0	0.17	04/14/21 10:04	
Benzo(k)fluoranthene	ug/L	0.18 U	4.0	0.18	04/14/21 10:04	
Benzyl alcohol	ug/L	1.3 U	5.0	1.3	04/14/21 10:04	
bis(2-Chloroethoxy)methane	ug/L	1.6 U	5.0	1.6	04/14/21 10:04	
bis(2-Chloroethyl) ether	ug/L	0.34 U	4.0	0.34	04/14/21 10:04	
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	6.0	1.8	04/14/21 10:04	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	5.0	1.1	04/14/21 10:04	
Butylbenzylphthalate	ug/L	1.1 U	5.0	1.1	04/14/21 10:04	
Caprolactam	ug/L	0.40 U	5.0	0.40	04/14/21 10:04	N2
Carbazole	ug/L	1.1 U	5.0	1.1	04/14/21 10:04	
Chrysene	ug/L	0.20 U	5.0	0.20	04/14/21 10:04	
Di-n-butylphthalate	ug/L	1.1 U	5.0	1.1	04/14/21 10:04	
Di-n-octylphthalate	ug/L	0.92 U	5.0	0.92	04/14/21 10:04	
Dibenz(a,h)anthracene	ug/L	0.18 U	2.0	0.18	04/14/21 10:04	
Dibenzofuran	ug/L	1.5 U	5.0	1.5	04/14/21 10:04	
Diethylphthalate	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
Dimethylphthalate	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
Fluoranthene	ug/L	0.21 U	5.0	0.21	04/14/21 10:04	
Fluorene	ug/L	0.34 U	5.0	0.34	04/14/21 10:04	
Hexachloro-1,3-butadiene	ug/L	0.35 U	2.0	0.35	04/14/21 10:04	
Hexachlorobenzene	ug/L	0.29 U	1.0	0.29	04/14/21 10:04	
Hexachlorocyclopentadiene	ug/L	3.4 U	11.0	3.4	04/14/21 10:04	
Hexachloroethane	ug/L	1.4 U	5.0	1.4	04/14/21 10:04	
Indeno(1,2,3-cd)pyrene	ug/L	0.17 U	2.0	0.17	04/14/21 10:04	
Isophorone	ug/L	1.7 U	5.0	1.7	04/14/21 10:04	
N-Nitroso-di-n-propylamine	ug/L	0.33 U	4.0	0.33	04/14/21 10:04	
N-Nitrosodimethylamine	ug/L	0.20 U	2.0	0.20	04/14/21 10:04	
N-Nitrosodiphenylamine	ug/L	1.2 U	5.0	1.2	04/14/21 10:04	
Naphthalene	ug/L	0.39 U	5.0	0.39	04/14/21 10:04	
Nitrobenzene	ug/L	0.37 U	4.0	0.37	04/14/21 10:04	
Pentachlorophenol	ug/L	1.6 U	20.0	1.6	04/14/21 10:04	
Phenanthrene	ug/L	0.23 U	5.0	0.23	04/14/21 10:04	
Phenol	ug/L	0.63 U	5.0	0.63	04/14/21 10:04	
Pyrene	ug/L	0.21 U	5.0	0.21	04/14/21 10:04	
Pyridine	ug/L	1.1 U	5.0	1.1	04/14/21 10:04	
2,4,6-Tribromophenol (S)	%	69	28-114		04/14/21 10:04	
2-Fluorobiphenyl (S)	%	61	22-101		04/14/21 10:04	
2-Fluorophenol (S)	%	36	10-57		04/14/21 10:04	
Nitrobenzene-d5 (S)	%	61	10-188		04/14/21 10:04	
p-Terphenyl-d14 (S)	%	57	48-124		04/14/21 10:04	
Phenol-d5 (S)	%	25	10-48		04/14/21 10:04	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

LABORATORY CONTROL SAMPLE: 3926309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.4	65	38-87	
1,2-Dichlorobenzene	ug/L	50	29.1	58	37-83	
1,2-Dinitrobenzene	ug/L	50	36.8	74	55-111	
1,2-Diphenylhydrazine	ug/L	50	31.4	63	47-104	
1,3-Dichlorobenzene	ug/L	50	28.6	57	36-81	
1,3-Dinitrobenzene	ug/L	50	37.4	75	56-104	
1,4-Dichlorobenzene	ug/L	50	28.7	57	37-82	
1-Methylnaphthalene	ug/L	50	32.9	66	42-91	
2,3,4,6-Tetrachlorophenol	ug/L	50	38.3	77	55-106	
2,3,5,6-Tetrachlorophenol	ug/L	50	38.9	78	54-109	N2
2,4,5-Trichlorophenol	ug/L	50	35.4	71	54-97	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	52-97	
2,4-Dichlorophenol	ug/L	50	33.5	67	47-92	
2,4-Dimethylphenol	ug/L	50	31.8	64	48-90	
2,4-Dinitrophenol	ug/L	50	33.0	66	42-120	
2,4-Dinitrotoluene	ug/L	50	37.6	75	60-101	
2,6-Dinitrotoluene	ug/L	50	36.0	72	55-100	
2-Chloronaphthalene	ug/L	50	30.5	61	42-95	
2-Chlorophenol	ug/L	50	28.4	57	41-83	
2-Methylnaphthalene	ug/L	50	32.8	66	42-91	
2-Methylphenol(o-Cresol)	ug/L	50	25.9	52	39-78	
2-Nitroaniline	ug/L	50	36.4	73	53-103	
2-Nitrophenol	ug/L	50	36.0	72	45-93	
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49	37-75	
3,3'-Dichlorobenzidine	ug/L	50	37.4	75	64-106	
3-Nitroaniline	ug/L	50	32.4	65	52-105	
4,6-Dinitro-2-methylphenol	ug/L	50	34.1	68	54-115	
4-Bromophenylphenyl ether	ug/L	50	34.7	69	48-103	
4-Chloro-3-methylphenol	ug/L	50	31.9	64	51-95	
4-Chloroaniline	ug/L	50	32.5	65	52-92	
4-Chlorophenylphenyl ether	ug/L	50	34.8	70	50-97	
4-Nitroaniline	ug/L	50	38.2	76	57-104	
4-Nitrophenol	ug/L	50	14.5 I	29	20-51	
Acenaphthene	ug/L	50	32.8	66	47-96	
Acenaphthylene	ug/L	50	32.8	66	46-99	
Aniline	ug/L	50	28.8	58	43-84	
Anthracene	ug/L	50	34.9	70	58-98	
Benzidine	ug/L	50	12.2 I	24	10-103	
Benzo(a)anthracene	ug/L	50	36.3	73	61-101	
Benzo(a)pyrene	ug/L	50	36.9	74	59-103	
Benzo(b)fluoranthene	ug/L	50	35.8	72	37-118	
Benzo(g,h,i)perylene	ug/L	50	32.8	66	58-107	
Benzo(k)fluoranthene	ug/L	50	40.2	80	61-106	
Benzyl alcohol	ug/L	50	26.2	52	40-82	
bis(2-Chloroethoxy)methane	ug/L	50	30.4	61	44-91	
bis(2-Chloroethyl) ether	ug/L	50	28.5	57	37-91	
bis(2-Chloroisopropyl) ether	ug/L	50	32.7	65	31-97	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

LABORATORY CONTROL SAMPLE: 3926309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	34.9	70	52-113	
Butylbenzylphthalate	ug/L	50	36.4	73	60-111	
Caprolactam	ug/L	50	8.8	18	15-32	N2
Carbazole	ug/L	50	35.7	71	61-101	
Chrysene	ug/L	50	36.5	73	62-102	
Di-n-butylphthalate	ug/L	50	35.2	70	60-105	
Di-n-octylphthalate	ug/L	50	34.8	70	53-112	
Dibenz(a,h)anthracene	ug/L	50	33.1	66	58-107	
Dibenzofuran	ug/L	50	33.3	67	50-95	
Diethylphthalate	ug/L	50	31.9	64	57-98	
Dimethylphthalate	ug/L	50	33.4	67	53-99	
Fluoranthene	ug/L	50	36.2	72	61-102	
Fluorene	ug/L	50	33.9	68	51-96	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	36-90	
Hexachlorobenzene	ug/L	50	37.2	74	57-97	
Hexachlorocyclopentadiene	ug/L	50	18.0	36	13-100	
Hexachloroethane	ug/L	50	27.7	55	33-84	
Indeno(1,2,3-cd)pyrene	ug/L	50	32.3	65	58-106	
Isophorone	ug/L	50	31.6	63	44-93	
N-Nitroso-di-n-propylamine	ug/L	50	31.0	62	41-96	
N-Nitrosodimethylamine	ug/L	50	19.7	39	25-63	
N-Nitrosodiphenylamine	ug/L	50	34.9	70	56-97	
Naphthalene	ug/L	50	31.1	62	41-87	
Nitrobenzene	ug/L	50	30.5	61	41-91	
Pentachlorophenol	ug/L	50	40.5	81	48-112	
Phenanthrene	ug/L	50	34.8	70	58-98	
Phenol	ug/L	50	12.3	25	17-40	
Pyrene	ug/L	50	35.9	72	61-104	
Pyridine	ug/L	50	20.1	40	14-60	
2,4,6-Tribromophenol (S)	%			81	28-114	
2-Fluorobiphenyl (S)	%			65	22-101	
2-Fluorophenol (S)	%			33	10-57	
Nitrobenzene-d5 (S)	%			59	10-188	
p-Terphenyl-d14 (S)	%			55	48-124	
Phenol-d5 (S)	%			24	10-48	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926310 3926311

Parameter	Units	35624754001 Result		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	1.4	U	49.9	50.1	28.2	29.7	57	59	38-87	5	40	
1,2-Dichlorobenzene	ug/L	1.5	U	49.9	50.1	25.8	27.4	52	55	37-83	6	40	
1,2-Dinitrobenzene	ug/L	1.9	U	49.9	50.1	34.7	32.8	69	66	55-111	6	40	
1,2-Diphenylhydrazine	ug/L	1.4	U	49.9	50.1	32.8	35.3	66	71	47-104	7	40	
1,3-Dichlorobenzene	ug/L	1.5	U	49.9	50.1	24.9	26.7	50	53	36-81	7	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926310 3926311

Parameter	Units	35624754001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dinitrobenzene	ug/L	0.27 U	49.9	50.1	36.0	33.4	72	67	56-104	8	40	
1,4-Dichlorobenzene	ug/L	1.6 U	49.9	50.1	25.2	26.6	51	53	37-82	5	40	
1-Methylnaphthalene	ug/L	8.2	49.9	50.1	38.4	46.1	60	76	42-91	18	40	
2,3,4,6-Tetrachlorophenol	ug/L	1.1 U	49.9	50.1	34.1	31.7	68	63	55-106	7	40	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	49.9	50.1	35.3	30.8	71	62	54-109	14	40	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	49.9	50.1	33.3	32.7	67	65	54-97	2	40	
2,4,6-Trichlorophenol	ug/L	0.36 U	49.9	50.1	32.7	34.4	66	69	52-97	5	40	
2,4-Dichlorophenol	ug/L	0.34 U	49.9	50.1	29.8	31.2	60	62	47-92	4	40	
2,4-Dimethylphenol	ug/L	1.0 U	49.9	50.1	30.0	32.0	60	64	48-90	6	40	
2,4-Dinitrophenol	ug/L	2.7 U	49.9	50.1	37.1	34.7	74	69	42-120	7	40	
2,4-Dinitrotoluene	ug/L	0.27 U	49.9	50.1	35.1	34.6	70	69	60-101	1	40	
2,6-Dinitrotoluene	ug/L	0.28 U	49.9	50.1	34.1	34.0	68	68	55-100	0	40	
2-Chloronaphthalene	ug/L	0.34 U	49.9	50.1	34.2	36.9	68	74	42-95	8	40	
2-Chlorophenol	ug/L	1.4 U	49.9	50.1	24.8	26.6	50	53	41-83	7	40	
2-Methylnaphthalene	ug/L	10.1	49.9	50.1	39.9	49.2	60	78	42-91	21	40	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	49.9	50.1	23.1	23.9	46	48	39-78	3	40	
2-Nitroaniline	ug/L	1.3 U	49.9	50.1	35.5	35.1	71	70	53-103	1	40	
2-Nitrophenol	ug/L	1.4 U	49.9	50.1	30.8	33.2	62	66	45-93	8	40	
3&4-Methylphenol(m&p Cresol)	ug/L	0.61 I	49.9	50.1	22.6	23.2	44	45	37-75	3	40	
3,3'-Dichlorobenzidine	ug/L	1.1 U	49.9	50.1	23.7	14.1	47	28	64-106	51	40	J(M1), J(R1)
3-Nitroaniline	ug/L	1.3 U	49.9	50.1	33.9	31.0	68	62	52-105	9	40	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	49.9	50.1	37.0	37.6	74	75	54-115	2	40	
4-Bromophenylphenyl ether	ug/L	1.7 U	49.9	50.1	31.5	30.5	63	61	48-103	3	40	
4-Chloro-3-methylphenol	ug/L	5.5 U	49.9	50.1	35.1	38.6	70	77	51-95	10	40	
4-Chloroaniline	ug/L	1.4 U	49.9	50.1	30.3	29.3	61	59	52-92	3	40	
4-Chlorophenylphenyl ether	ug/L	1.5 U	49.9	50.1	31.9	32.8	64	65	50-97	3	40	
4-Nitroaniline	ug/L	0.19 U	49.9	50.1	32.9	30.9	66	62	57-104	6	40	
4-Nitrophenol	ug/L	0.96 U	49.9	50.1	15.0 I	14.7 I	30	29	20-51		40	
Acenaphthene	ug/L	0.36 U	49.9	50.1	32.3	32.4	65	65	47-96	1	40	
Acenaphthylene	ug/L	0.30 U	49.9	50.1	31.3	32.3	63	64	46-99	3	40	
Aniline	ug/L	0.95 U	49.9	50.1	27.7	28.0	56	56	43-84	1	40	
Anthracene	ug/L	0.22 U	49.9	50.1	33.7	34.6	68	69	58-98	2	40	
Benzidine	ug/L	0.88 U	49.9	50.1	0.87 U	0.87 U	0	1	10-103		40	J(M1)
Benzo(a)anthracene	ug/L	0.20 U	49.9	50.1	32.7	32.9	65	66	61-101	1	40	
Benzo(a)pyrene	ug/L	0.17 U	49.9	50.1	30.2	30.9	60	62	59-103	2	40	
Benzo(b)fluoranthene	ug/L	0.27 U	49.9	50.1	30.6	25.8	61	51	37-118	17	40	
Benzo(g,h,i)perylene	ug/L	0.17 U	49.9	50.1	24.6	24.8	49	49	58-107	1	40	J(M1)
Benzo(k)fluoranthene	ug/L	0.18 U	49.9	50.1	30.3	26.1	61	52	61-106	15	40	J(M1)
Benzyl alcohol	ug/L	1.3 U	49.9	50.1	26.6	27.3	53	54	40-82	3	40	
bis(2-Chloroethoxy)methane	ug/L	1.6 U	49.9	50.1	32.1	34.2	64	68	44-91	7	40	
bis(2-Chloroethyl) ether	ug/L	0.34 U	49.9	50.1	27.0	28.7	54	57	37-91	6	40	
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	49.9	50.1	27.7	29.1	56	58	31-97	5	40	
bis(2-Ethylhexyl)phthalate	ug/L	1.1 U	49.9	50.1	27.8	28.4	55	56	52-113	2	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926310 3926311

Parameter	Units	35624754001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Butylbenzylphthalate	ug/L	1.1 U	49.9	50.1	33.6	34.7	67	69	60-111	3	40	
Caprolactam	ug/L	0.41 U	49.9	50.1	14.8	13.8	30	28	15-32	7	40	N2
Carbazole	ug/L	1.1 U	49.9	50.1	34.8	36.0	70	72	61-101	3	40	
Chrysene	ug/L	0.20 U	49.9	50.1	33.8	33.9	68	68	62-102	0	40	
Di-n-butylphthalate	ug/L	1.1 U	49.9	50.1	34.8	35.9	69	71	60-105	3	40	
Di-n-octylphthalate	ug/L	0.93 U	49.9	50.1	28.5	29.4	57	59	53-112	3	40	
Dibenz(a,h)anthracene	ug/L	0.18 U	49.9	50.1	29.9	30.1	60	60	58-107	1	40	
Dibenzofuran	ug/L	1.5 U	49.9	50.1	32.0	32.6	64	65	50-95	2	40	
Diethylphthalate	ug/L	1.7 I	49.9	50.1	30.7	30.1	58	57	57-98	2	40	
Dimethylphthalate	ug/L	1.4 U	49.9	50.1	32.3	30.6	65	61	53-99	6	40	
Fluoranthene	ug/L	0.21 U	49.9	50.1	26.1	26.1	52	52	61-102	0	40	J(M1)
Fluorene	ug/L	0.34 U	49.9	50.1	32.3	32.3	65	64	51-96	0	40	
Hexachloro-1,3-butadiene	ug/L	0.35 U	49.9	50.1	27.6	28.6	55	57	36-90	4	40	
Hexachlorobenzene	ug/L	0.29 U	49.9	50.1	33.3	35.3	67	70	57-97	6	40	
Hexachlorocyclopentadiene	ug/L	3.5 U	49.9	50.1	25.8	26.8	52	53	13-100	4	40	
Hexachloroethane	ug/L	1.4 U	49.9	50.1	27.1	29.3	54	58	33-84	8	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.17 U	49.9	50.1	30.6	30.4	61	61	58-106	1	40	
Isophorone	ug/L	1.7 U	49.9	50.1	30.7	31.4	61	63	44-93	3	40	
N-Nitroso-di-n-propylamine	ug/L	0.33 U	49.9	50.1	30.8	31.2	62	62	41-96	1	40	
N-Nitrosodimethylamine	ug/L	0.20 U	49.9	50.1	18.8	19.6	38	39	25-63	4	40	
N-Nitrosodiphenylamine	ug/L	1.2 U	49.9	50.1	33.5	33.8	67	67	56-97	1	40	
Naphthalene	ug/L	14.0	49.9	50.1	42.4	55.2	57	82	41-87	26	40	
Nitrobenzene	ug/L	0.37 U	49.9	50.1	29.5	30.8	59	62	41-91	4	40	
Pentachlorophenol	ug/L	1.7 U	49.9	50.1	36.6	38.3	73	76	48-112	4	40	
Phenanthrene	ug/L	0.23 U	49.9	50.1	33.2	35.6	66	71	58-98	7	40	
Phenol	ug/L	0.64 U	49.9	50.1	11.0	11.4	22	23	17-40	4	40	
Pyrene	ug/L	0.21 U	49.9	50.1	33.4	33.2	67	66	61-104	0	40	
Pyridine	ug/L	1.1 U	49.9	50.1	17.7	18.9	35	38	14-60	6	40	
2,4,6-Tribromophenol (S)	%						66	64	28-114			
2-Fluorobiphenyl (S)	%						60	61	22-101			
2-Fluorophenol (S)	%						27	29	10-57			
Nitrobenzene-d5 (S)	%						58	60	10-188			
p-Terphenyl-d14 (S)	%						48	49	48-124			
Phenol-d5 (S)	%						21	22	10-48			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35625214

QC Batch: 720651
QC Batch Method: EPA 3510
Analysis Method: FL-PRO
Analysis Description: FL-PRO Water Low Volume
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35625214001

METHOD BLANK: 3927286 Matrix: Water
Associated Lab Samples: 35625214001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	04/13/21 22:20	
N-Pentatriacontane (S)	%	91	42-159		04/13/21 22:20	
o-Terphenyl (S)	%	71	66-139		04/13/21 22:20	

LABORATORY CONTROL SAMPLE: 3927287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	4.4	89	66-119	
N-Pentatriacontane (S)	%			117	42-159	
o-Terphenyl (S)	%			85	66-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927699 3927700

Parameter	Units	35625202006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L	0.76 U	4.8	4.8	3.6	4.3	73	89	65-123	19	20	
N-Pentatriacontane (S)	%						86	101	42-159			
o-Terphenyl (S)	%						70	84	66-139			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALIFIERS

Project:	Safety Kleen Facility
Pace Project No.:	35625214

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Safety Kleen Facility
Pace Project No.: 35625214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35625214001	**MW-2R-04122021**	EPA 3510	720651	FL-PRO	720753
35625214001	**MW-2R-04122021**	EPA 200.8	720807	EPA 200.8	720899
35625214002	**MW-1-04122021**	EPA 200.8	720807	EPA 200.8	720899
35625214003	**MW-3-04122021**	EPA 200.8	720807	EPA 200.8	720899
35625214001	**MW-2R-04122021**	EPA 3510	720473	EPA 8270 by SIM	720578
35625214001	**MW-2R-04122021**	EPA 3510	720426	EPA 8270	720477
35625214001	**MW-2R-04122021**	EPA 8260	720766		
35625214004	**Trip Blank**	EPA 8260	720766		

WO# : 35625214

35625214

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CHAIN-OF-CUSTODY / Analytical Request Docu

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

Section A
Required Client Information:

Company: Environmental Consulting & Technology-Tampa
Address: 1408 North Westshore Bllvd
Tampa, FL 33607
Email: kmorrison@ectinc.com
Phone: 813-493-0383 Fax:
Requested Due Date:

Section B
Required Project Information:

Report To: Keith Morrison
Copy To:
Purchase Order #: 210212-0100
Project Name: Safety Kleen Facility
Project #: 210212-0100

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com,
Pace Profile #: 9321 line 1

Regulatory Agency:

State / Location: FL

Requested Analysis Filtered (Y/N)

MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Other OT
Tissue TS

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N Analyses Test	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for W	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs M	FL PRO MS/MSD	8260 Trip Blank	Residual Chlorine (Y/N)
1	MW-2R-04122021	WT		4-12-21	855	4-12-21	920	NA	14	X	X	X	X						x	x	x	x	X	X		
2	MW-1-04122021	WT		4-12-21	941	4-12-21	943		1			X										x				
3	MW-3-04122021	WT		4-12-21	832	4-12-21	834		1			X										x				
4	Trip Blank	WT		NA	NA	NA			2				X												x	
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Bottle Kit	PACE	3-30-21	1025	Keith F. Morrison/ECT	3-30-21	1400	TL2			
	Keith F Morrison/ECT	4-12-21	1535		4/12/21	1535	10.4	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison/ECT

SIGNATURE of SAMPLER: Keith F Morrison DATE Signed: 4-12-2021

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35625214

Project Manager: PM: LAP Due Date: 04/19/21

Client: CLIENT: 37-ECTTAM

Date and Initials of person:
Examining contents: EM
Label: 4/12/21
Deliver:
pH: 4/12/21

Thermometer Used: T402 Date: 4/12/21 Time: 1540 Initials: MVC

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 10.4 **(Visual)** 0.0 **(Correction Factor)** 10.4 **(Actual)** ☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # ____

Custody Seal on Cooler/Box Present: ☐Yes ☒No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Dry None

Packing Material: ☐Bubble Wrap ☒Bubble Bags ☐None ☐Other____

Samples shorted to lab (If Yes, complete) Shorted Date:____ Shorted Time:____ Qty:____

		Comments:
Chain of Custody Present	☒Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☒Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☒Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☒Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☒ No ☐N/A	
Sufficient Volume	☒Yes ☐ No ☐N/A	
Correct Containers Used	☒Yes ☐ No ☐N/A	
Containers Intact	☒Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☒Yes ☐ No ☐N/A	Preservation Information: Preservative:____ Lot #/Trace #:____ Date:____ Time:____ Initials:____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☒Yes ☐ No ☐N/A	
Headspace in VOA Vials? (>6mm):	☐Yes ☒No ☐N/A	
Trip Blank Present:	☒Yes ☐ No ☐N/A	

Client Notification/ Resolution:
Person Contacted:____ Date/Time:____

Comments/ Resolution (use back for additional comments):____

Project Manager Review:____ Date:____

Industrial Waste Operating Report Form (IWORF)

Permit #: IW-333 **Permit Year:** 2021

Reports must be mailed to:
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Ct, Suite #700
Miami, FL 33136-3912

Facility Name: SAFETY-KLEEN SYSTEMS, INC.

Facility Address: 8755 NW 95 ST
MEDLEY, FL 33178

Contact Name: Mr. Larry Rodriguez

Instructions: Indicate which report is being provided by checking off the applicable "Source Type" box(es) from the listing below. In addition, indicate the period being reported and attach the applicable information (e.g. waste manifests, analytical results, etc.) as required by each Source Type. Refer to the operating permit document for more information on reporting and sampling requirements, including analytical methodologies, applicable to the referenced facility.

Reporting Requirements:

☐ Source Type:RR-1 Reporting Frequency: Quarterly Reporting Period: ______

Description: Copies of manifests and/or receipts of all hazardous waste, industrial waste, industrial wastewater, sludge and/or ash disposed of. Information shall include name of hauler, volume and final destination. Records shall also be maintained on-site for review.

Sampling Requirements:

☒ Source Type: SMP-1 Reporting Frequency: Annually Reporting Period: 2022

Description: Groundwater from the facility monitoring well(s).

Parameters: Cadmium (Total), Chromium (Total), Lead (Total), Silver (Total)

☒ Source Type: SMP-2 Reporting Frequency: Annually Reporting Period: 2022

Description: Groundwater from monitoring well nearest the containment area stormwater discharge point.

Parameters: EPA Series 8260, EPA Series 8270, TRPH

Average Daily Waste Water Flow Discharge to Sanitary Sewers: ______ Gallons Per Day (GPD)

I hereby certify that, to the best of my knowledge, this document and all attachments are true, accurate and complete.

Authorized Representative or Corporate Officer

5/16/22
Report Completion Date

May 16, 2022
210212-2201

Mrs. Maya Fisher, Environmental Specialist Supervisor
Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 7th Floor
Miami, Florida 33136-3912

Re: Safety-Kleen Systems, Inc., Medley, Florida
Industrial Waste Permit No. IW-000333-2021/2022 (File # 10139)
Annual Report of Groundwater Quality

Dear Mrs. Fisher:

On behalf of Safety-Kleen Systems, Inc. (SK), this document comprises the Annual Report of Groundwater Quality as required by Specific Condition 16 and the associated sampling requirements in the above-referenced Industrial Waste Annual Operating Permit for SK's Medley, Florida facility. Environmental Consulting & Technology, Inc. (ECT) completed the annual groundwater sampling at the above-referenced Medley facility in accordance with the facility's permit.

On April 18, 2022, ECT collected groundwater samples from monitoring wells MW-1, MW-2R (a.k.a. MW-2), and MW-3 per the annual SMP-1 requirement, and from monitoring well MW-2R per the annual SMP-2 requirement. The samples from all three wells (for SMP-1) were submitted to Pace Analytical Services, Inc. (PAS) for analyses of the silver, cadmium, chromium, and lead by U.S. Environmental Protection Agency (EPA) Method 200.8. In addition, samples from monitoring well MW-2R (for SMP-2) were also submitted to PAS for analyses of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and Florida Petroleum Range Organics (FL-PRO). The locations of the facility's groundwater monitoring wells are shown on the enclosed Figure 1.

A peristaltic pump was used to purge and sample the monitoring wells. The field notes, groundwater sampling logs, and equipment calibration forms are provided in Attachment A. The groundwater quality results (laboratory report) are provided in Attachment B.

The laboratory report indicated that concentrations for three of the four metals (i.e., cadmium, lead, and silver) were below their respective method detection limits (MDLs) in all three wells sampled per the annual SMP-1 requirements. Chromium was detected at estimated concentrations of 0.62I micrograms per liter (µg/L) at monitoring well MW-1, 0.79I µg/L at monitoring well MW-2R, and 0.90I µg/L at monitoring well MW-3. However, those concentrations were detected between the laboratory MDL and the laboratory practical quantitation limit (PQL) and are well below the groundwater cleanup target level (GCTL) of 100 µg/L for chromium as specified in the permit.

Per the annual SMP-2 requirement at monitoring well MW-2R, the laboratory report indicated the following results for the various analyses of organic parameters:

1. FL-PRO concentration was below the laboratory MDL; that is, none was detected.

2. No SVOC was detected (i.e., EPA Series 8270 parameters).
3. No VOC was detected (i.e., EPA Series 8260 parameters).

As such, the observed groundwater quality is compliant with the permit.

If you have any questions regarding this report, please call Jeff Curtis of SK at (561) 523-4719. Thank you.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Keith F. Morrison

Keith F. Morrison
Senior Associate Scientist I

Gregory Sattler, P.E.
Senior Remediation Engineer

SAFETY-KLEEN SYSTEMS, INC.

Jeff Curtis
EHS Manager, Florida
Safety-Kleen Systems, Inc.
5610 Alpha Drive
Boynton Beach, Florida 33426
jeff.curtis@safety-kleen.com

Enclosures:
Figure 1
Attachment A – Field Notes, Groundwater Sampling Logs, and Equipment Calibration Logs
Attachment B - Laboratory Report

cc: Robert Schoepke – S-K (electronic only)
Gregory Sattler – ECT (electronic only)
Keith Morrison – ECT (electronic only)
Facility 999 File #1760, % S-K Medley facility Branch General Manager

FIGURE

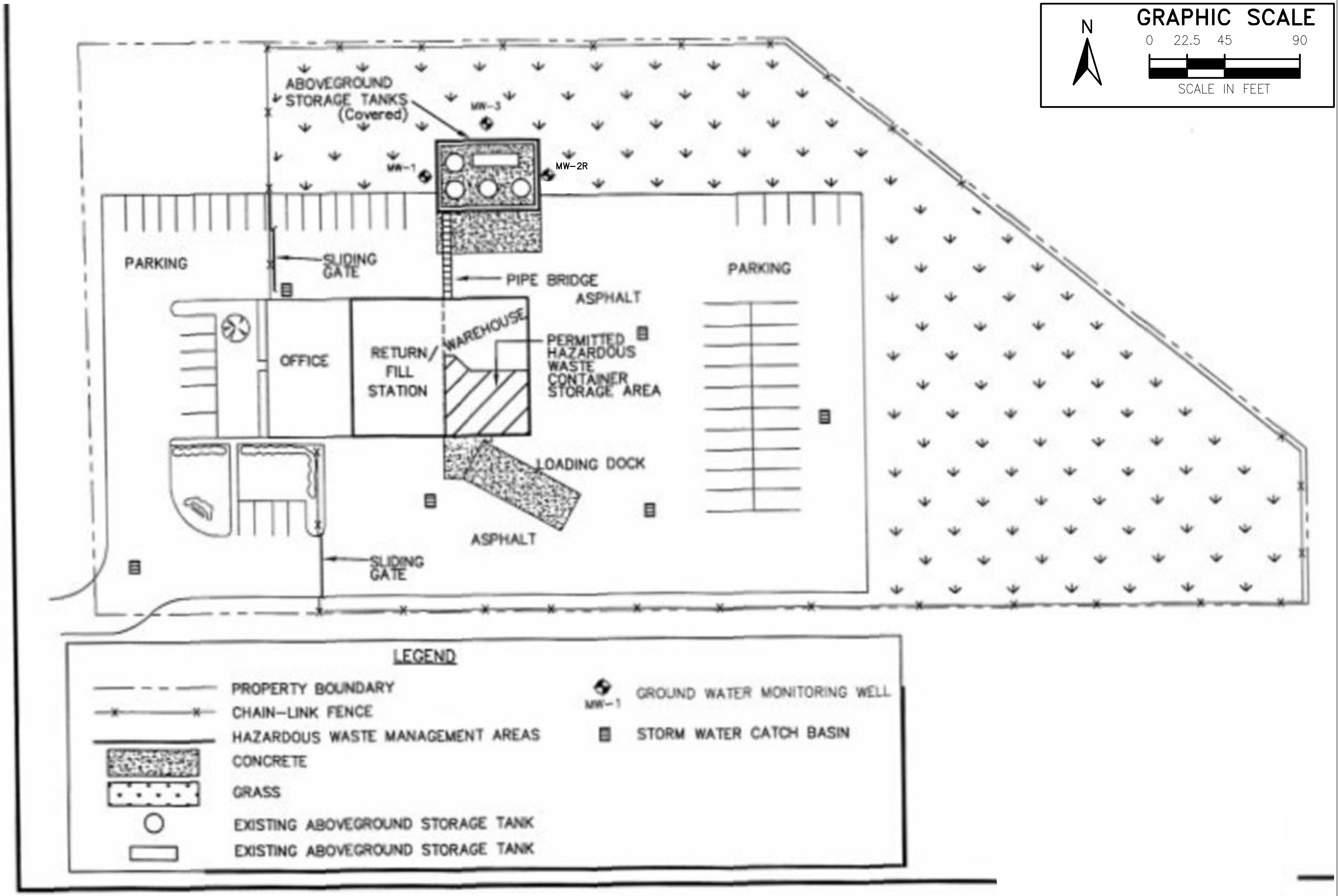


FIGURE 1.

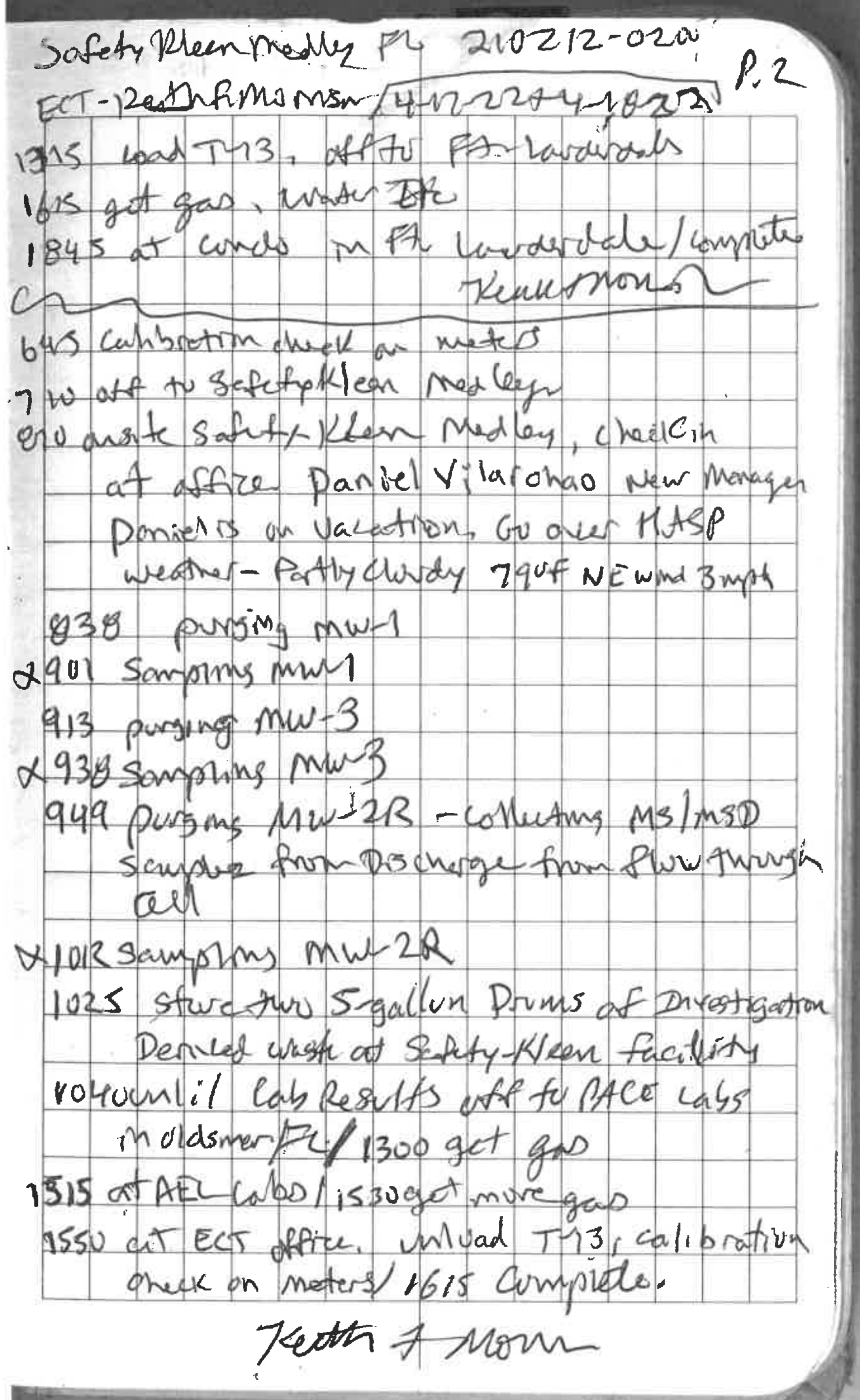
FACILITY LAYOUT AND ACCESS CONTROL FEATURES
SAFETY-KLEEN SYSTEMS, INC. FACILITY
8755 NW 95TH STREET, MEDLEY, FLORIDA

Source: ERM, 2012; ECT, 2020.

ECT Environmental Consulting & Technology, Inc.

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS, AND EQUIPMENT CALIBRATION LOGS



Safety Kleen Medley FL 210212-0201

ECT-Keith F Moran MSW 4-12-22 - 4-13-22 P. 2

1315 load T-13, off to Ft Lauderdale

1615 get gas, water Etc

1845 at condo in Ft Lauderdale / complete

Keith Moran

645 calibration check on meters

700 off to Safety-Kleen Medley

810 onsite Safety-Kleen Medley, check in at office Daniel Vilarohao New Manager Daniel is on vacation, Go over HASP weather - Partly Cloudy 79°F NE wind 3mph

838 purging MW-1

α901 Sampling MW-1

913 purging MW-3

α938 Sampling MW-3

949 purging MW-2R - collecting MS/MSD sample from Discharge from flow through cell

α1012 Sampling MW-2R

1025 store two 5-gallon Drums of Investigation Derived waste at Safety-Kleen facility

1040 until lab Results off to PACE Labs in Oldsmar FL / 1300 get gas

1515 at AEL Labs / 1530 get more gas

1550 at ECT office, unload T-13, calibration check on meters / 1615 Complete.

Keith F Moran

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.	SITE LOCATION: 8755 NW 95th Street, Medley, FL	
WELL NO: MW-1	SAMPLE ID: MW-1-04182022	DATE: 4/18/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ¼-OD 1/8-ID	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.35	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.2 feet – 3.35 feet) X 0.16 gallons/foot = 1.26 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.3	PURGING INITIATED AT: 838	PURGING ENDED AT: 900	TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
854	≈1.3	≈1.3	0.08	3.50	7.18	24.11	481	0.18	1.66	clear	slight	-271
857	≈0.24	≈1.54	↓	3.50	7.19	24.12	481	0.19	1.67	↓	organic	-275
900	≈0.24	1.78		3.50	7.20	24.14	481	0.19	1.63		↓	-280

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/ECT	SAMPLER(S) SIGNATURE(S): Keith F. Morrison	SAMPLING INITIATED AT: 901	SAMPLING ENDED AT: 903
PUMP OR TUBING DEPTH IN WELL (feet): 7.3	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [✓ N] Filtration Equipment Type:	FILTER SIZE: ____ μm
FIELD DECONTAMINATION: PUMP Y [✓ N]	TUBING Y [✓ N] (replaced)	DUPLICATE: Y [✓ N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW1-04182022	1	PE	250 ml	HNO3+ Ice	NONE	–	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	303

REMARKS:

$$Q = \frac{0.13 \text{ gal}}{96 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.08 \text{ gpm}$$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.	SITE LOCATION: 8755 NW 95th Street, Medley, FL	
WELL NO: MW-2R	SAMPLE ID: MW-2-04182022	DATE: 4/18/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/8-ID ¼-OD	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.90	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.4 feet – 3.90 feet) X 0.16 gallons/foot = 1.22 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 949	PURGING ENDED AT: 1011	TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/m or [✓ μS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1005	≈1.3	≈1.3	0.08	3.90	7.22	24.84	510	0.08	4.69	Clear	organic	-286
1008	0.24	1.54	↓	3.90	7.20	24.80	508	0.07	4.84	↓	↓	-290
1011	0.24	1.78		3.90	7.17	24.77	506	0.06	4.93			-294

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison/ECT	SAMPLER(S) SIGNATURE(S): Keith Morrison	SAMPLING INITIATED AT: 1012	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [✓ N] Filtration Equipment Type:	FILTER SIZE: ____ μm
FIELD DECONTAMINATION: PUMP Y [✓ N]	TUBING Y [✓ N] (replaced)	DUPLICATE: Y [✓ N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW2R-04182022	3	CG	40 ml	HCl+ Ice	NONE	--	8260-Volatile Organic Compounds by EPA Method 8260	APP	≈303
↓	1	AG	1 L	Ice	NONE	--	8270-Semi-Volatile Organic Compounds by EPA Method 8270	APP	↓
	1	PE	250 ml	HNO3 + Ice	NONE	--	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	
	2	AG	100 ml	H2SO4 + Ice	NONE	--	TRPHs by FL-PRO Method	APP	
	1	AG	250 ml	Ice	NONE	--	8270 LLPAHs	APP	

REMARKS: $Q = \frac{0.13\ gal}{97\ sec} \times \frac{60\ sec}{1\ min} = 0.08\ gpm$ *Tiny pieces of sediment in 8260 bottle MS/MSD → QA/QC samples collected Also

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Ub

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Safety Kleen Systems, Inc.

SITE LOCATION: 8755 NW 95th Street, Medley, FL

WELL NO: MW-3

SAMPLE ID: MW-3-04182022

DATE: 4-18-22

PURGING DATA

WELL DIAMETER (inches): 2

TUBING DIAMETER (inches): 1/8-ID ¼-OD

WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet

STATIC DEPTH TO WATER (feet): 2.84

PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (11.6 feet – 2.84 feet) X 0.16 gallons/foot = 1.40 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2

FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2

PURGING INITIATED AT: 913

PURGING ENDED AT: 937

TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or [✓ µS/cm]	DISSOLVED OXYGEN (circle units) [✓ mg/L] or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
931	1.44	1.44	0.08	2.99	7.13	23.51	489	0.10	1.99	Clear	slight	-299
934	0.24	1.68	↓	2.99	7.14	23.47	490	0.09	2.24	↓	organics	-304
937	0.24	1.92		2.99	7.15	23.	489	0.09	2.39		↓	-308

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Keith F. Morrison / ECT

SAMPLER(S) SIGNATURE(S): Keith F. Morrison

SAMPLING INITIATED AT: 938

SAMPLING ENDED AT: 940

PUMP OR TUBING DEPTH IN WELL (feet): 7.2

TUBING MATERIAL CODE: HDPE

FIELD-FILTERED: Y [✓ N]

FILTER SIZE: _____ µm

Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y [✓ N] TUBING Y [✓ N] (replaced)

DUPLICATE: Y [✓ N]

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3-04182022	1	PE	250 ml	HNO3+ Ice	NONE	--	Cd, Cr, Pb, Ag by EPA Method 200.8	APP	303

REMARKS: $Q = \frac{0.13 \text{ gal}}{96 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} = 0.08 \text{ gpm}$

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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FIELD INSTRUMENT CALIBRATION RECORDS - EXAMPLE CALIBRATION LOG - PRP

Project Site/FacID: Safety Kleen Medley

Calibrated by (Print)/Affiliation: KeithF. Momsm/ECI Keith F Mom

Boldly "X" this box if there is qualified data on this page.

Temperature (Quarterly) Date of Last Temp Verification: See log book:

DISSOLVED OXYGEN (DO) (REFERENCE: DEP SOP FT 1500) **Acceptance Criteria +/-0.3 mg DO/L**

Meter/Instrument Name and Unique ID: YSI 556 MPS | SN# 04D 8023 AP

	Initials	Date	Time	Standard (DO %)	Temp °C	Saturation mg/L (100%)	Response DO (%)	Deviation mg DO/L	Deviation mg DO/L	Pass or Fail
CAL [✓ ICV] CCV	KFM	4-18-22	645	100%	20.0	100.6 9.09	100.3	9.2	0.11	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-19-22	1550	100%	21.2	8.88	100.1	9.02	0.15	[✓ P] F
CAL ICV CCV				100%						P F
CAL ICV CCV				100%						P F
CAL ICV CCV				100%						P F
CAL ICV CCV				100%						P F

See Table FT 1500-1 and/or Table FS 2200-2 for Dissolved Oxygen Saturation corresponding to Temperature.

SPECIFIC CONDUCTANCE (REFERENCE: DEP SOP FT 1200) **Acceptance Criteria +/-5% the standard**

Meter/Instrument Name and Unique ID: YSI 556 MPS | SN# 04D 8023 AP

	Initials	Date	Time	Standard (µmho/cm)	Exp. Date	Lot #	Response	Deviation (%)	Pass or Fail
CAL [✓ ICV] CCV	KFM	4-18-22	647	1,413	4/22	16D1207	1419	±5%	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-19-22	1552	1,413	4/22	16D1207	1420	±5%	[✓ P] F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

OXIDATION-REDUCTION POTENTIAL (ORP) **Acceptance Criteria +/-10 mV**

REFERENCE: ***EPA Region 4, Operating Procedure, Field Measurement of Oxidation-Reduction Potential (ORP)***

Meter/Instrument Name and Unique ID:

	Initials	Date	Time	Standard (mV)	Exp. Date	Lot #	Response (mV)	Response (mV)	Pass or Fail
CAL [✓ ICV] CCV	KFM	4-18-22	650	240 mv	4/31/22	16D531	246	± 6	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1555	240 "	4/31/22	16D531	249	3%	[✓ P] F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

Perform ICVs and CCVs only in "READ/RUN" mode.

CAL - Calibration; ICV - Initial Calibration Verification; and, CCV - Continuing Calibration Verification.

FIELD INSTRUMENT CALIBRATION RECORDS - EXAMPLE CALIBRATION LOG - PRP

Project Site/FacID: Safety Kleen Medley

Calibrated by (Print)/Affiliation: Keith F. Morrison / ECT

Boldly "X" this box if there is qualified data on this page. ☐

TURBIDITY (REFERENCE: DEP SOP FT 1600) Meter/Instrument Name and Unique ID: HACH 2100Q/SN# 16110C053546

Std=0.1-10 NTU +/-10% **Std=11-40 NTU +/-8%** **Std=41-100 NTU +/-6.5%** **Std>100 NTU +/-5%**

	Initials	Date	Time	Standard (NTU)	Exp. Date	Lot #	Response (NTU)	Deviation (%)	Pass or Fail
CAL [✓ ICV] CCV	KFM	41822	653	10 NTUS	7/22	2961801	9.73	2.7%	[✓ P] F
CAL [✓ ICV] CCV	KFM	41822	654	20 "	7/23	2684901	19.4	3%	[✓ P] F
CAL [✓ ICV] CCV	KFM	41822	655	100 "	7/22	2684901	96.1	3.9%	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1557	10 "	7/22	2961801	9.75	3.5%	[✓ P] F
CAL ICV [✓ CCV]	KFM	41822	1558	20 "	7/22	2684801	19.3	3.5%	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1559	100 "	7/22	2684901	96.5	3.5%	[✓ P] F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

pH (REFERENCE: DEP SOP FT 1100) **Acceptance Criteria +/-0.2 SU**

Meter/Instrument Name and Unique ID: YSI 556 MPS/SN# 04D0023 AP

	Initials	Date	Time	Standard (SU)	Exp. Date	Lot #	Response (SU)	Deviation (SU)	Pass or Fail
CAL [✓ ICV] CCV	KFM	41822	657	4.0	05/22	200728C	4.06	-0.06	[✓ P] F
CAL [✓ ICV] CCV	KFM	4-18-22	700	7.0	09/23	161081	7.09	0.09	[✓ P] F
CAL [✓ ICV] CCV	KFM	4-18-22	703	10.0	02/23	200725D	9.92	0.08	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1605	4.0	5/22	200728C	4.08	0.08	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1610	7.0	9/23	161081	7.11	0.11	[✓ P] F
CAL ICV [✓ CCV]	KFM	4-18-22	1615	10.0	2/22	200725D	9.90	0.1	[✓ P] F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

Perform ICVs and CCVs only in "READ/RUN" mode.

CAL - Calibration; ICV - Initial Calibration Verification; and, CCV - Continuing Calibration Verification.

Pace Container Order #941673

Addresses

Order By :
Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Ship To :
Company Environmental Consulting &
Contact Morrison, Keith
Email kmorrison@ectinc.com
Address 1408 North Westshore Bllvd
Address 2 Suite 115
City Tampa
State FL Zip 33607
Phone 813-493-0383

Return To:
Company Pace Analytical Oldsmar
Contact Palmer, Lori
Email lori.palmer@pacelabs.com
Address 110 South Bayview Blvd.
Address 2
City Oldsmar
State FL Zip 34677
Phone 813-855-1844

Info

Project Name Safety Kleen Facility
Due Date 04/08/2022
Profile 9321 line 1
Quote
Project Manager Palmer, Lori
Return Date
Carrier Pace Courier
Location FL

Trip Blanks

☒ Include Trip Blanks

Bottle Labels

☐ Blank
☐ Pre-Printed No Sample IDs
☒ Pre-Printed With Sample IDs

Bottles

☐ Boxed Cases
☐ Individually Wrapped
☐ Grouped By Sample ID/Matrix

Return Shipping Labels

☐ No Shipper
☐ With Shipper

COC Options

☐ Number of Blanks
☒ Pre-Printed

Misc

☐ Sampling Instructions
☐ Custody Seal
☐ Temp. Blanks
☐ Coolers
☐ Syringes
☐ Extra Bubble Wrap
☐ Short Hold/Rush Stickers
☐ DI Water Liter(s)
☐ USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	8260 Full List	3-40mL vial HCl	3	0		
1	WT	8270 Full list plus PAHs	1L AG Unpres + 250 mL AG unpres	2	0		
1	WT	FL Pro Low Volume for Waters	2-100 ml glass amber H2SO4	2	0		
3	WT	Metals 200.8 Ag,Cd,Cr,Pb	250mL plastic w/HNO3	3	0		
1	WT	8270 Full list plus PAHs MS/MSD	2-1L AG Unpres + 250 mL AG unpres	4	4		
1	WT	FL PRO MS/MSD	100ml glass amber H2SO4	2	2		
1	WT	8260 Trip Blank	2-40ml vials w/HCL + DI	2	2		

Hazard Shipping Placard In Place : NO

LAB USE:
Ship Date : 04/08/2022
Prepared By: LS
Verified By:

*Sample receiving hours are Mon-Fri 8:00am-6:00pm unless special arrangements are made with your project manager.
*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

Sample

Quote # 00107181

CLIENT USE (Optional):
Date Rec'd:
Received By:
Verified By:

Pace

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacela

WO# : 35711376

35711376

Section A
Required Client Information:

Company: Environmental Consulting & Technology-Tampa
Address: 1408 North Westshore Bllvd
Suite 115, Tampa, FL 33607
Email: kmorriscn@ectinc.com
Phone: 813-493-0383 Fax:
Requested Due Date:

Section B
Required Project Information:

Report To: Keith Morrison
Copy To:
Purchase Order #: 210212-0200
Project Name: Safety Kleen Facility
Project #: 210212-0200

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: lori.palmer@pacelabs.com,
Pace Profile #: 9321 line 1

Regulatory Agency

State / Location
FL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME (Sample)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Waters	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	8260 Trip Blank	Residual Chlorine (Y/N)	Sampling per Safety-Kleen [illegible] Annual IW Permit #IW-000333-2021/2022
1	MW-2R -04182022	WT		—	—	4-18-22	1812 1012		8	X	X	X	X						X	X	X	X	X	X			
2	MW-1 -04182022	WT		—	—	4-18-22	901		1			X										X					
3	MW-3 -04182022	WT		—	—	4-18-22	938		1			X										X					
4	Trip Blank	WT		—	—	—	—		2			X													X		
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Bottle Kit	Leatha Shaffer Pace	4-7-22	1112	Keith F Morrison/ECT	4-8-22	1400	TBC			
	Keith F Morrison/ECT	4-18-22	1515	Dawn Sargent	4-18-22	1515	6.4	Y	N	Y
Quote # 00107181										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison - ECT
SIGNATURE of SAMPLER: Keith Morrison DATE Signed: 4-18-22

DC#_Title: ENV-FRM-ORB1-0093 Sample Condition Upon Receipt Form
Version: 3 | Effective Date: 12/29/2021 | Issued by: Ormond Beach

UR)

WO# : 35711376
PM: LAP Due Date: 04/25/22
CLIENT: 37-ECTTAM

Project #
Project Manager:
Client:

Date and Initials of person: DH
Examining contents:
Label: 4.18.22
Deliver:
pH:

Thermometer Used: T202 Date: 4-18-22 Time: 1515 Initials: DS

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 6.2 **(Visual)** +0.2 **(Correction Factor)** 6.4 **(Actual)** ☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual)** ☐ Samples on ice, cooling process has begun
Recheck for OOT °C ____ **(Visual)** ____ **(Correction Factor)** ____ **(Actual) Time:**____ **Initials:**____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other____
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Melted None

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other____

Samples shorted to lab (If Yes, complete) Shorted Date:____ Shorted Time:____ Qty:____

				Comments:
Chain of Custody Present	☑ Yes	☐ No	☐ N/A	
Chain of Custody Filled Out	☑ Yes	☐ No	☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes	☐ No	☐ N/A	
Samples Arrived within Hold Time	☑ Yes	☐ No	☐ N/A	
Rush TAT requested on COC	☐ Yes	☑ No	☐ N/A	
Sufficient Volume	☑ Yes	☐ No	☐ N/A	
Correct Containers Used	☑ Yes	☐ No	☐ N/A	
Containers Intact	☑ Yes	☐ No	☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes	☐ No	☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes	☐ No	☐ N/A	Preservation Information: Preservative:____ Lot #/Trace #:____ Date:____ Time:____ Initials:____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑ Yes	☐ No	☐ N/A	
Headspace In VOA Vials? (>6mm):	☐ Yes	☐ No	☑ N/A	
Trip Blank Present:	☐ Yes	☐ No	☑ N/A	

Comments/ Resolution (use back for additional comments):____

ATTACHMENT B

LABORATORY REPORT

Pace Analytical Services, LLC
110 South Bayview Blvd.
Oldsmar , FL 34677
(813)881-9401

April 25, 2022

Keith Morrison
Environmental Consulting & Techlology
1408 North Westshore Bllvd
Suite 115
Tampa, FL 33607

RE: Project: Safety Kleen Facility
Pace Project No.: 35711376

Dear Keith Morrison:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer
lori.palmer@pacelabs.com
813-855-1844
Project Manager

Enclosures

cc: A/P, Environmental Consulting & Technology

CERTIFICATIONS

Project:	Safety Kleen Facility
Pace Project No.:	35711376

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

SAMPLE SUMMARY

Project: Safety Kleen Facility
Pace Project No.: 35711376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35711376001	**MW-2R-04182022**	Water	04/18/22 10:12	04/18/22 15:15
35711376002	**MW-1-04182022**	Water	04/18/22 09:01	04/18/22 15:15
35711376003	**MW-3-04182022**	Water	04/18/22 09:38	04/18/22 15:15
35711376004	**Trip Blank**	Water	04/18/22 00:01	04/18/22 15:15

SAMPLE ANALYTE COUNT

Project: Safety Kleen Facility
Pace Project No.: 35711376

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35711376001	**MW-2R-04182022**	FL-PRO	NCB1	3
		EPA 200.8	AS3	4
		EPA 8270 by SIM	JPB	20
		EPA 8270	TWB	82
		EPA 8260	AST	52
35711376002	**MW-1-04182022**	EPA 200.8	AS3	4
35711376003	**MW-3-04182022**	EPA 200.8	AS3	4
35711376004	**Trip Blank**	EPA 8260	AST	52

PASI-O = Pace Analytical Services - Ormond Beach

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: MW-2R-04182022 **Lab ID: 35711376001** Collected: 04/18/22 10:12 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
FL-PRO Water, Low Volume	Analytical Method: FL-PRO Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Petroleum Range Organics	**0.78 U**	mg/L	0.97	0.78	1	04/20/22 20:30	04/21/22 13:24		
Surrogates									
o-Terphenyl (S)	85	%	66-139		1	04/20/22 20:30	04/21/22 13:24	84-15-1	
N-Pentatriacontane (S)	102	%	42-159		1	04/20/22 20:30	04/21/22 13:24	630-07-09	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/19/22 06:52	04/19/22 19:30	7440-43-9	
Chromium	**0.79 I**	ug/L	1.0	0.50	1	04/19/22 06:52	04/19/22 19:30	7440-47-3	
Lead	**0.22 U**	ug/L	1.0	0.22	1	04/19/22 06:52	04/19/22 19:30	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/19/22 06:52	04/19/22 19:30	7440-22-4	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.019 U**	ug/L	0.50	0.019	1	04/20/22 13:15	04/21/22 00:40	83-32-9	
Acenaphthylene	**0.031 U**	ug/L	0.50	0.031	1	04/20/22 13:15	04/21/22 00:40	208-96-8	
Anthracene	**0.020 U**	ug/L	0.50	0.020	1	04/20/22 13:15	04/21/22 00:40	120-12-7	
Benzo(a)anthracene	**0.020 U**	ug/L	0.10	0.020	1	04/20/22 13:15	04/21/22 00:40	56-55-3	
Benzo(a)pyrene	**0.021 U**	ug/L	0.20	0.021	1	04/20/22 13:15	04/21/22 00:40	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	04/20/22 13:15	04/21/22 00:40	205-99-2	
Benzo(g,h,i)perylene	**0.023 U**	ug/L	0.50	0.023	1	04/20/22 13:15	04/21/22 00:40	191-24-2	
Benzo(k)fluoranthene	**0.024 U**	ug/L	0.50	0.024	1	04/20/22 13:15	04/21/22 00:40	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	04/20/22 13:15	04/21/22 00:40	218-01-9	
Dibenz(a,h)anthracene	**0.025 U**	ug/L	0.15	0.025	1	04/20/22 13:15	04/21/22 00:40	53-70-3	
Fluoranthene	**0.018 U**	ug/L	0.50	0.018	1	04/20/22 13:15	04/21/22 00:40	206-44-0	
Fluorene	**0.017 U**	ug/L	0.50	0.017	1	04/20/22 13:15	04/21/22 00:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.024 U**	ug/L	0.15	0.024	1	04/20/22 13:15	04/21/22 00:40	193-39-5	
1-Methylnaphthalene	**0.19 U**	ug/L	2.0	0.19	1	04/20/22 13:15	04/21/22 00:40	90-12-0	
2-Methylnaphthalene	**0.17 U**	ug/L	2.0	0.17	1	04/20/22 13:15	04/21/22 00:40	91-57-6	
Naphthalene	**0.29 U**	ug/L	2.0	0.29	1	04/20/22 13:15	04/21/22 00:40	91-20-3	
Phenanthrene	**0.019 U**	ug/L	0.50	0.019	1	04/20/22 13:15	04/21/22 00:40	85-01-8	
Pyrene	**0.032 U**	ug/L	0.50	0.032	1	04/20/22 13:15	04/21/22 00:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	32-100		1	04/20/22 13:15	04/21/22 00:40	321-60-8	
p-Terphenyl-d14 (S)	96	%	48-112		1	04/20/22 13:15	04/21/22 00:40	1718-51-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Acenaphthene	**0.34 U**	ug/L	4.8	0.34	1	04/22/22 18:15	04/25/22 11:07	83-32-9	
Acenaphthylene	**0.29 U**	ug/L	4.8	0.29	1	04/22/22 18:15	04/25/22 11:07	208-96-8	
Aniline	**0.90 U**	ug/L	4.8	0.90	1	04/22/22 18:15	04/25/22 11:07	62-53-3	
Anthracene	**0.21 U**	ug/L	4.8	0.21	1	04/22/22 18:15	04/25/22 11:07	120-12-7	
Benzidine	**0.83 U**	ug/L	23.8	0.83	1	04/22/22 18:15	04/25/22 11:07	92-87-5	
Benzo(a)anthracene	**0.19 U**	ug/L	4.8	0.19	1	04/22/22 18:15	04/25/22 11:07	56-55-3	
Benzo(a)pyrene	**0.16 U**	ug/L	0.95	0.16	1	04/22/22 18:15	04/25/22 11:07	50-32-8	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: MW-2R-04182022 **Lab ID: 35711376001** Collected: 04/18/22 10:12 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
Benzo(b)fluoranthene	**0.26 U**	ug/L	1.9	0.26	1	04/22/22 18:15	04/25/22 11:07	205-99-2	
Benzo(g,h,i)perylene	**0.16 U**	ug/L	4.8	0.16	1	04/22/22 18:15	04/25/22 11:07	191-24-2	
Benzo(k)fluoranthene	**0.17 U**	ug/L	3.8	0.17	1	04/22/22 18:15	04/25/22 11:07	207-08-9	
Benzyl alcohol	**1.2 U**	ug/L	4.8	1.2	1	04/22/22 18:15	04/25/22 11:07	100-51-6	
4-Bromophenylphenyl ether	**1.6 U**	ug/L	4.8	1.6	1	04/22/22 18:15	04/25/22 11:07	101-55-3	
Butylbenzylphthalate	**1.1 U**	ug/L	4.8	1.1	1	04/22/22 18:15	04/25/22 11:07	85-68-7	
Caprolactam	**0.81 U**	ug/L	4.8	0.81	1	04/22/22 18:15	04/25/22 11:07	105-60-2	N2
Carbazole	**1.1 U**	ug/L	4.8	1.1	1	04/22/22 18:15	04/25/22 11:07	86-74-8	
4-Chloro-3-methylphenol	**5.2 U**	ug/L	19.1	5.2	1	04/22/22 18:15	04/25/22 11:07	59-50-7	
4-Chloroaniline	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	106-47-8	
bis(2-Chloroethoxy)methane	**1.5 U**	ug/L	4.8	1.5	1	04/22/22 18:15	04/25/22 11:07	111-91-1	
bis(2-Chloroethyl) ether	**0.32 U**	ug/L	3.8	0.32	1	04/22/22 18:15	04/25/22 11:07	111-44-4	
bis(2-Chloroisopropyl) ether	**1.7 U**	ug/L	5.7	1.7	1	04/22/22 18:15	04/25/22 11:07	108-60-1	
2-Chloronaphthalene	**0.32 U**	ug/L	4.8	0.32	1	04/22/22 18:15	04/25/22 11:07	91-58-7	
2-Chlorophenol	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	95-57-8	
4-Chlorophenylphenyl ether	**1.4 U**	ug/L	4.8	1.4	1	04/22/22 18:15	04/25/22 11:07	7005-72-3	
Chrysene	**0.19 U**	ug/L	4.8	0.19	1	04/22/22 18:15	04/25/22 11:07	218-01-9	
Dibenz(a,h)anthracene	**0.17 U**	ug/L	1.9	0.17	1	04/22/22 18:15	04/25/22 11:07	53-70-3	
Dibenzofuran	**1.4 U**	ug/L	4.8	1.4	1	04/22/22 18:15	04/25/22 11:07	132-64-9	
1,2-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	04/22/22 18:15	04/25/22 11:07	95-50-1	
1,3-Dichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	04/22/22 18:15	04/25/22 11:07	541-73-1	
1,4-Dichlorobenzene	**1.5 U**	ug/L	4.8	1.5	1	04/22/22 18:15	04/25/22 11:07	106-46-7	
3,3'-Dichlorobenzidine	**1.0 U**	ug/L	9.5	1.0	1	04/22/22 18:15	04/25/22 11:07	91-94-1	
2,4-Dichlorophenol	**0.32 U**	ug/L	1.9	0.32	1	04/22/22 18:15	04/25/22 11:07	120-83-2	
Diethylphthalate	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	84-66-2	
2,4-Dimethylphenol	**0.98 U**	ug/L	4.8	0.98	1	04/22/22 18:15	04/25/22 11:07	105-67-9	
Dimethylphthalate	**1.4 U**	ug/L	4.8	1.4	1	04/22/22 18:15	04/25/22 11:07	131-11-3	
Di-n-butylphthalate	**3.4 U**	ug/L	4.8	3.4	1	04/22/22 18:15	04/25/22 11:07	84-74-2	
4,6-Dinitro-2-methylphenol	**4.4 U**	ug/L	19.1	4.4	1	04/22/22 18:15	04/25/22 11:07	534-52-1	
1,2-Dinitrobenzene	**1.8 U**	ug/L	5.7	1.8	1	04/22/22 18:15	04/25/22 11:07	528-29-0	
1,3-Dinitrobenzene	**1.7 U**	ug/L	7.6	1.7	1	04/22/22 18:15	04/25/22 11:07	99-65-0	
2,4-Dinitrophenol	**2.5 U**	ug/L	19.1	2.5	1	04/22/22 18:15	04/25/22 11:07	51-28-5	
2,4-Dinitrotoluene	**1.1 U**	ug/L	3.8	1.1	1	04/22/22 18:15	04/25/22 11:07	121-14-2	
2,6-Dinitrotoluene	**0.84 U**	ug/L	1.9	0.84	1	04/22/22 18:15	04/25/22 11:07	606-20-2	
Di-n-octylphthalate	**0.88 U**	ug/L	4.8	0.88	1	04/22/22 18:15	04/25/22 11:07	117-84-0	
1,2-Diphenylhydrazine	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	122-66-7	
bis(2-Ethylhexyl)phthalate	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	117-81-7	
Fluoranthene	**0.20 U**	ug/L	4.8	0.20	1	04/22/22 18:15	04/25/22 11:07	206-44-0	
Fluorene	**0.32 U**	ug/L	4.8	0.32	1	04/22/22 18:15	04/25/22 11:07	86-73-7	
Hexachloro-1,3-butadiene	**0.33 U**	ug/L	1.9	0.33	1	04/22/22 18:15	04/25/22 11:07	87-68-3	
Hexachlorobenzene	**0.28 U**	ug/L	0.95	0.28	1	04/22/22 18:15	04/25/22 11:07	118-74-1	
Hexachlorocyclopentadiene	**3.3 U**	ug/L	10.5	3.3	1	04/22/22 18:15	04/25/22 11:07	77-47-4	
Hexachloroethane	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	67-72-1	
Indeno(1,2,3-cd)pyrene	**0.16 U**	ug/L	1.9	0.16	1	04/22/22 18:15	04/25/22 11:07	193-39-5	
Isophorone	**1.6 U**	ug/L	4.8	1.6	1	04/22/22 18:15	04/25/22 11:07	78-59-1	

ANALYTICAL RESULTS

Project:	Safety Kleen Facility
Pace Project No.:	35711376

Sample: MW-2R-04182022 **Lab ID: 35711376001** Collected: 04/18/22 10:12 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Ormond Beach								
1-Methylnaphthalene	**0.34 U**	ug/L	4.8	0.34	1	04/22/22 18:15	04/25/22 11:07	90-12-0	
2-Methylnaphthalene	**0.27 U**	ug/L	4.8	0.27	1	04/22/22 18:15	04/25/22 11:07	91-57-6	
2-Methylphenol(o-Cresol)	**0.29 U**	ug/L	4.8	0.29	1	04/22/22 18:15	04/25/22 11:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	**0.21 U**	ug/L	9.5	0.21	1	04/22/22 18:15	04/25/22 11:07		
Naphthalene	**0.37 U**	ug/L	4.8	0.37	1	04/22/22 18:15	04/25/22 11:07	91-20-3	
2-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	04/22/22 18:15	04/25/22 11:07	88-74-4	
3-Nitroaniline	**1.2 U**	ug/L	4.8	1.2	1	04/22/22 18:15	04/25/22 11:07	99-09-2	
4-Nitroaniline	**0.83 U**	ug/L	3.8	0.83	1	04/22/22 18:15	04/25/22 11:07	100-01-6	
Nitrobenzene	**0.35 U**	ug/L	3.8	0.35	1	04/22/22 18:15	04/25/22 11:07	98-95-3	
2-Nitrophenol	**1.3 U**	ug/L	4.8	1.3	1	04/22/22 18:15	04/25/22 11:07	88-75-5	
4-Nitrophenol	**1.9 U**	ug/L	19.1	1.9	1	04/22/22 18:15	04/25/22 11:07	100-02-7	
N-Nitrosodimethylamine	**0.19 U**	ug/L	1.9	0.19	1	04/22/22 18:15	04/25/22 11:07	62-75-9	
N-Nitroso-di-n-propylamine	**0.31 U**	ug/L	3.8	0.31	1	04/22/22 18:15	04/25/22 11:07	621-64-7	
N-Nitrosodiphenylamine	**1.2 U**	ug/L	4.8	1.2	1	04/22/22 18:15	04/25/22 11:07	86-30-6	
Pentachlorophenol	**1.6 U**	ug/L	19.1	1.6	1	04/22/22 18:15	04/25/22 11:07	87-86-5	
Phenanthrene	**0.22 U**	ug/L	4.8	0.22	1	04/22/22 18:15	04/25/22 11:07	85-01-8	
Phenol	**0.60 U**	ug/L	4.8	0.60	1	04/22/22 18:15	04/25/22 11:07	108-95-2	
Pyrene	**0.20 U**	ug/L	4.8	0.20	1	04/22/22 18:15	04/25/22 11:07	129-00-0	
Pyridine	**1.1 U**	ug/L	4.8	1.1	1	04/22/22 18:15	04/25/22 11:07	110-86-1	
2,3,4,6-Tetrachlorophenol	**1.0 U**	ug/L	4.8	1.0	1	04/22/22 18:15	04/25/22 11:07	58-90-2	
2,3,5,6-Tetrachlorophenol	**1.8 U**	ug/L	8.6	1.8	1	04/22/22 18:15	04/25/22 11:07	935-95-5	N2
1,2,4-Trichlorobenzene	**1.4 U**	ug/L	4.8	1.4	1	04/22/22 18:15	04/25/22 11:07	120-82-1	
2,4,5-Trichlorophenol	**0.22 U**	ug/L	3.8	0.22	1	04/22/22 18:15	04/25/22 11:07	95-95-4	
2,4,6-Trichlorophenol	**0.34 U**	ug/L	1.9	0.34	1	04/22/22 18:15	04/25/22 11:07	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	46	%	10-188		1	04/22/22 18:15	04/25/22 11:07	4165-60-0	
2-Fluorobiphenyl (S)	44	%	22-101		1	04/22/22 18:15	04/25/22 11:07	321-60-8	
p-Terphenyl-d14 (S)	71	%	48-124		1	04/22/22 18:15	04/25/22 11:07	1718-51-0	
Phenol-d6 (S)	16	%	10-48		1	04/22/22 18:15	04/25/22 11:07	13127-88-3	
2-Fluorophenol (S)	23	%	10-57		1	04/22/22 18:15	04/25/22 11:07	367-12-4	
2,4,6-Tribromophenol (S)	68	%	28-114		1	04/22/22 18:15	04/25/22 11:07	118-79-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Acetone	**9.4 U**	ug/L	25.0	9.4	1		04/20/22 02:22	67-64-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 02:22	71-43-2	
Bromobenzene	**0.21 U**	ug/L	1.0	0.21	1		04/20/22 02:22	108-86-1	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		04/20/22 02:22	74-97-5	
Bromodichloromethane	**0.44 U**	ug/L	1.0	0.44	1		04/20/22 02:22	75-27-4	
Bromoform	**2.8 U**	ug/L	3.0	2.8	1		04/20/22 02:22	75-25-2	
Bromomethane	**3.9 U**	ug/L	10.0	3.9	1		04/20/22 02:22	74-83-9	J(v2)
2-Butanone (MEK)	**6.0 U**	ug/L	50.0	6.0	1		04/20/22 02:22	78-93-3	
Carbon disulfide	**1.8 U**	ug/L	10.0	1.8	1		04/20/22 02:22	75-15-0	
Carbon tetrachloride	**0.44 U**	ug/L	3.0	0.44	1		04/20/22 02:22	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		04/20/22 02:22	108-90-7	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: MW-2R-04182022 **Lab ID: 35711376001** Collected: 04/18/22 10:12 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		04/20/22 02:22	75-00-3	
Chloroform	**0.56 U**	ug/L	1.0	0.56	1		04/20/22 02:22	67-66-3	
Chloromethane	**0.92 U**	ug/L	1.0	0.92	1		04/20/22 02:22	74-87-3	J(v1)
Dibromochloromethane	**0.97 U**	ug/L	2.0	0.97	1		04/20/22 02:22	124-48-1	
Dibromomethane	**0.34 U**	ug/L	2.0	0.34	1		04/20/22 02:22	74-95-3	
1,2-Dichlorobenzene	**0.60 U**	ug/L	1.0	0.60	1		04/20/22 02:22	95-50-1	
1,3-Dichlorobenzene	**0.33 U**	ug/L	1.0	0.33	1		04/20/22 02:22	541-73-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		04/20/22 02:22	106-46-7	
Dichlorodifluoromethane	**0.84 U**	ug/L	1.0	0.84	1		04/20/22 02:22	75-71-8	
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		04/20/22 02:22	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		04/20/22 02:22	107-06-2	
1,1-Dichloroethene	**0.59 U**	ug/L	1.0	0.59	1		04/20/22 02:22	75-35-4	
cis-1,2-Dichloroethene	**0.83 U**	ug/L	1.0	0.83	1		04/20/22 02:22	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		04/20/22 02:22	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		04/20/22 02:22	78-87-5	
1,3-Dichloropropane	**0.26 U**	ug/L	1.0	0.26	1		04/20/22 02:22	142-28-9	
1,1-Dichloropropene	**0.31 U**	ug/L	1.0	0.31	1		04/20/22 02:22	563-58-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 02:22	100-41-4	
2-Hexanone	**10.0 U**	ug/L	25.0	10.0	1		04/20/22 02:22	591-78-6	
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 02:22	98-82-8	
Methylene Chloride	**4.4 U**	ug/L	5.0	4.4	1		04/20/22 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.5 U**	ug/L	25.0	7.5	1		04/20/22 02:22	108-10-1	
Methyl-tert-butyl ether	**1.6 U**	ug/L	5.0	1.6	1		04/20/22 02:22	1634-04-4	
Styrene	**0.65 U**	ug/L	1.0	0.65	1		04/20/22 02:22	100-42-5	
1,1,2,2-Tetrachloroethane	**0.59 U**	ug/L	1.0	0.59	1		04/20/22 02:22	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		04/20/22 02:22	127-18-4	
Toluene	**0.71 U**	ug/L	1.0	0.71	1		04/20/22 02:22	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 02:22	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 02:22	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		04/20/22 02:22	79-01-6	
Trichlorofluoromethane	**0.82 U**	ug/L	1.0	0.82	1		04/20/22 02:22	75-69-4	
1,2,3-Trichloropropane	**0.53 U**	ug/L	2.0	0.53	1		04/20/22 02:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	**3.5 U**	ug/L	5.0	3.5	1		04/20/22 02:22	76-13-1	
1,2,4-Trimethylbenzene	**0.58 U**	ug/L	1.0	0.58	1		04/20/22 02:22	95-63-6	
1,3,5-Trimethylbenzene	**0.64 U**	ug/L	1.0	0.64	1		04/20/22 02:22	108-67-8	
Vinyl acetate	**1.8 U**	ug/L	10.0	1.8	1		04/20/22 02:22	108-05-4	J(v1)
Vinyl chloride	**0.88 U**	ug/L	1.0	0.88	1		04/20/22 02:22	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		04/20/22 02:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/20/22 02:22	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		04/20/22 02:22	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		04/20/22 02:22	2199-69-1	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: MW-1-04182022 **Lab ID: 35711376002** Collected: 04/18/22 09:01 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/19/22 06:52	04/19/22 19:31	7440-43-9	
Chromium	**0.62 I**	ug/L	1.0	0.50	1	04/19/22 06:52	04/19/22 19:31	7440-47-3	
Lead	**0.22 U**	ug/L	1.0	0.22	1	04/19/22 06:52	04/19/22 19:31	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/19/22 06:52	04/19/22 19:31	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: MW-3-04182022 **Lab ID: 35711376003** Collected: 04/18/22 09:38 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Cadmium	**0.050 U**	ug/L	0.10	0.050	1	04/19/22 06:52	04/19/22 19:33	7440-43-9	
Chromium	**0.90 I**	ug/L	1.0	0.50	1	04/19/22 06:52	04/19/22 19:33	7440-47-3	
Lead	**0.22 U**	ug/L	1.0	0.22	1	04/19/22 06:52	04/19/22 19:33	7439-92-1	
Silver	**0.21 U**	ug/L	0.50	0.21	1	04/19/22 06:52	04/19/22 19:33	7440-22-4	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: Trip Blank **Lab ID: 35711376004** Collected: 04/18/22 00:01 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
Acetone	**9.4 U**	ug/L	25.0	9.4	1		04/20/22 12:26	67-64-1	
Benzene	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 12:26	71-43-2	
Bromobenzene	**0.21 U**	ug/L	1.0	0.21	1		04/20/22 12:26	108-86-1	
Bromochloromethane	**0.37 U**	ug/L	1.0	0.37	1		04/20/22 12:26	74-97-5	
Bromodichloromethane	**0.44 U**	ug/L	1.0	0.44	1		04/20/22 12:26	75-27-4	
Bromoform	**2.8 U**	ug/L	3.0	2.8	1		04/20/22 12:26	75-25-2	
Bromomethane	**3.9 U**	ug/L	10.0	3.9	1		04/20/22 12:26	74-83-9	
2-Butanone (MEK)	**6.0 U**	ug/L	50.0	6.0	1		04/20/22 12:26	78-93-3	
Carbon disulfide	**1.8 U**	ug/L	10.0	1.8	1		04/20/22 12:26	75-15-0	
Carbon tetrachloride	**0.44 U**	ug/L	3.0	0.44	1		04/20/22 12:26	56-23-5	
Chlorobenzene	**0.35 U**	ug/L	1.0	0.35	1		04/20/22 12:26	108-90-7	
Chloroethane	**3.7 U**	ug/L	10.0	3.7	1		04/20/22 12:26	75-00-3	J(v2)
Chloroform	**0.56 U**	ug/L	1.0	0.56	1		04/20/22 12:26	67-66-3	
Chloromethane	**0.92 U**	ug/L	1.0	0.92	1		04/20/22 12:26	74-87-3	
Dibromochloromethane	**0.97 U**	ug/L	2.0	0.97	1		04/20/22 12:26	124-48-1	
Dibromomethane	**0.34 U**	ug/L	2.0	0.34	1		04/20/22 12:26	74-95-3	
1,2-Dichlorobenzene	**0.60 U**	ug/L	1.0	0.60	1		04/20/22 12:26	95-50-1	
1,3-Dichlorobenzene	**0.33 U**	ug/L	1.0	0.33	1		04/20/22 12:26	541-73-1	
1,4-Dichlorobenzene	**0.28 U**	ug/L	1.0	0.28	1		04/20/22 12:26	106-46-7	
Dichlorodifluoromethane	**0.84 U**	ug/L	1.0	0.84	1		04/20/22 12:26	75-71-8	J(v2)
1,1-Dichloroethane	**0.34 U**	ug/L	1.0	0.34	1		04/20/22 12:26	75-34-3	
1,2-Dichloroethane	**0.27 U**	ug/L	1.0	0.27	1		04/20/22 12:26	107-06-2	
1,1-Dichloroethene	**0.59 U**	ug/L	1.0	0.59	1		04/20/22 12:26	75-35-4	J(v2)
cis-1,2-Dichloroethene	**0.83 U**	ug/L	1.0	0.83	1		04/20/22 12:26	156-59-2	
trans-1,2-Dichloroethene	**0.23 U**	ug/L	1.0	0.23	1		04/20/22 12:26	156-60-5	
1,2-Dichloropropane	**0.23 U**	ug/L	1.0	0.23	1		04/20/22 12:26	78-87-5	
1,3-Dichloropropane	**0.26 U**	ug/L	1.0	0.26	1		04/20/22 12:26	142-28-9	
1,1-Dichloropropene	**0.31 U**	ug/L	1.0	0.31	1		04/20/22 12:26	563-58-6	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 12:26	100-41-4	
2-Hexanone	**10.0 U**	ug/L	25.0	10.0	1		04/20/22 12:26	591-78-6	
Isopropylbenzene (Cumene)	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 12:26	98-82-8	
Methylene Chloride	**4.4 U**	ug/L	5.0	4.4	1		04/20/22 12:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.5 U**	ug/L	25.0	7.5	1		04/20/22 12:26	108-10-1	
Methyl-tert-butyl ether	**1.6 U**	ug/L	5.0	1.6	1		04/20/22 12:26	1634-04-4	
Styrene	**0.65 U**	ug/L	1.0	0.65	1		04/20/22 12:26	100-42-5	
1,1,2,2-Tetrachloroethane	**0.59 U**	ug/L	1.0	0.59	1		04/20/22 12:26	79-34-5	
Tetrachloroethene	**0.38 U**	ug/L	1.0	0.38	1		04/20/22 12:26	127-18-4	
Toluene	**0.71 U**	ug/L	1.0	0.71	1		04/20/22 12:26	108-88-3	
1,1,1-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 12:26	71-55-6	
1,1,2-Trichloroethane	**0.30 U**	ug/L	1.0	0.30	1		04/20/22 12:26	79-00-5	
Trichloroethene	**0.36 U**	ug/L	1.0	0.36	1		04/20/22 12:26	79-01-6	
Trichlorofluoromethane	**0.82 U**	ug/L	1.0	0.82	1		04/20/22 12:26	75-69-4	J(v2)
1,2,3-Trichloropropane	**0.53 U**	ug/L	2.0	0.53	1		04/20/22 12:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	**3.5 U**	ug/L	5.0	3.5	1		04/20/22 12:26	76-13-1	J(v2)
1,2,4-Trimethylbenzene	**0.58 U**	ug/L	1.0	0.58	1		04/20/22 12:26	95-63-6	

ANALYTICAL RESULTS

Project: Safety Kleen Facility
Pace Project No.: 35711376

Sample: Trip Blank **Lab ID: 35711376004** Collected: 04/18/22 00:01 Received: 04/18/22 15:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Ormond Beach								
1,3,5-Trimethylbenzene	**0.64 U**	ug/L	1.0	0.64	1		04/20/22 12:26	108-67-8	
Vinyl acetate	**1.8 U**	ug/L	10.0	1.8	1		04/20/22 12:26	108-05-4	
Vinyl chloride	**0.88 U**	ug/L	1.0	0.88	1		04/20/22 12:26	75-01-4	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		04/20/22 12:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/20/22 12:26	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		04/20/22 12:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		04/20/22 12:26	2199-69-1	

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 817116
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376001, 35711376002, 35711376003

METHOD BLANK: 4487096 Matrix: Water
Associated Lab Samples: 35711376001, 35711376002, 35711376003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	0.050 U	0.10	0.050	04/19/22 19:13	
Chromium	ug/L	0.50 U	1.0	0.50	04/19/22 19:13	
Lead	ug/L	0.22 U	1.0	0.22	04/19/22 19:13	
Silver	ug/L	0.21 U	0.50	0.21	04/19/22 19:13	

LABORATORY CONTROL SAMPLE: 4487097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	5	5.0	100	85-115	
Chromium	ug/L	50	50.8	102	85-115	
Lead	ug/L	50	49.5	99	85-115	
Silver	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4487098 4487099

Parameter	Units	35711376003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	0.050 U	5	5	5.1	5.0	102	101	70-130	1	20	
Chromium	ug/L	0.90 I	50	50	52.6	53.2	103	105	70-130	1	20	
Lead	ug/L	0.22 U	50	50	50.4	50.8	101	101	70-130	1	20	
Silver	ug/L	0.21 U	5	5	5.1	5.1	102	101	70-130	0	20	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 817412
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376001

METHOD BLANK: 4488900
Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/19/22 22:29	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	04/19/22 22:29	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/19/22 22:29	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	5.0	3.5	04/19/22 22:29	
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	04/19/22 22:29	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	04/19/22 22:29	
1,1-Dichloropropene	ug/L	0.31 U	1.0	0.31	04/19/22 22:29	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	04/19/22 22:29	
1,2,4-Trimethylbenzene	ug/L	0.58 U	1.0	0.58	04/19/22 22:29	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	04/19/22 22:29	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	04/19/22 22:29	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	04/19/22 22:29	
1,3,5-Trimethylbenzene	ug/L	0.64 U	1.0	0.64	04/19/22 22:29	
1,3-Dichlorobenzene	ug/L	0.33 U	1.0	0.33	04/19/22 22:29	
1,3-Dichloropropane	ug/L	0.26 U	1.0	0.26	04/19/22 22:29	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	04/19/22 22:29	
2-Butanone (MEK)	ug/L	6.0 U	50.0	6.0	04/19/22 22:29	
2-Hexanone	ug/L	10.0 U	25.0	10.0	04/19/22 22:29	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	04/19/22 22:29	
Acetone	ug/L	9.4 U	25.0	9.4	04/19/22 22:29	
Benzene	ug/L	0.30 U	1.0	0.30	04/19/22 22:29	
Bromobenzene	ug/L	0.21 U	1.0	0.21	04/19/22 22:29	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	04/19/22 22:29	
Bromodichloromethane	ug/L	0.44 U	1.0	0.44	04/19/22 22:29	
Bromoform	ug/L	2.8 U	3.0	2.8	04/19/22 22:29	
Bromomethane	ug/L	3.9 U	10.0	3.9	04/19/22 22:29	J(v2)
Carbon disulfide	ug/L	1.8 U	10.0	1.8	04/19/22 22:29	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	04/19/22 22:29	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	04/19/22 22:29	
Chloroethane	ug/L	3.7 U	10.0	3.7	04/19/22 22:29	
Chloroform	ug/L	0.56 U	1.0	0.56	04/19/22 22:29	
Chloromethane	ug/L	0.92 U	1.0	0.92	04/19/22 22:29	J(v1)
cis-1,2-Dichloroethene	ug/L	0.83 U	1.0	0.83	04/19/22 22:29	
Dibromochloromethane	ug/L	0.97 U	2.0	0.97	04/19/22 22:29	
Dibromomethane	ug/L	0.34 U	2.0	0.34	04/19/22 22:29	
Dichlorodifluoromethane	ug/L	0.84 U	1.0	0.84	04/19/22 22:29	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	04/19/22 22:29	
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	04/19/22 22:29	
Methyl-tert-butyl ether	ug/L	1.6 U	5.0	1.6	04/19/22 22:29	
Methylene Chloride	ug/L	4.4 U	5.0	4.4	04/19/22 22:29	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

METHOD BLANK: 4488900 Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/L	0.65 U	1.0	0.65	04/19/22 22:29	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	04/19/22 22:29	
Toluene	ug/L	0.71 U	1.0	0.71	04/19/22 22:29	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	04/19/22 22:29	
Trichloroethene	ug/L	0.36 U	1.0	0.36	04/19/22 22:29	
Trichlorofluoromethane	ug/L	0.82 U	1.0	0.82	04/19/22 22:29	
Vinyl acetate	ug/L	1.8 U	10.0	1.8	04/19/22 22:29	J(v1)
Vinyl chloride	ug/L	0.88 U	1.0	0.88	04/19/22 22:29	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	04/19/22 22:29	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130		04/19/22 22:29	
4-Bromofluorobenzene (S)	%	96	70-130		04/19/22 22:29	
Toluene-d8 (S)	%	105	70-130		04/19/22 22:29	

LABORATORY CONTROL SAMPLE: 4488901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.5	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	23.3	117	68-125	
1,1,2-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	22.4	112	57-145	
1,1-Dichloroethane	ug/L	20	21.3	106	70-130	
1,1-Dichloroethene	ug/L	20	21.1	106	66-133	
1,1-Dichloropropene	ug/L	20	21.4	107	70-130	
1,2,3-Trichloropropane	ug/L	20	22.2	111	62-127	
1,2,4-Trimethylbenzene	ug/L	20	21.1	105	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	105	70-130	
1,2-Dichloroethane	ug/L	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	20	20.9	105	70-130	
1,3,5-Trimethylbenzene	ug/L	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	20	21.7	109	70-130	
1,3-Dichloropropane	ug/L	20	21.8	109	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	100	109	109	47-143	
2-Hexanone	ug/L	100	109	109	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	57-132	
Acetone	ug/L	100	111	111	46-148	
Benzene	ug/L	20	22.1	111	70-130	
Bromobenzene	ug/L	20	21.4	107	70-130	
Bromochloromethane	ug/L	20	19.7	98	70-130	
Bromodichloromethane	ug/L	20	23.0	115	70-130	
Bromoform	ug/L	20	23.7	119	49-126	
Bromomethane	ug/L	20	4.0 I	20	10-165	J(v3)
Carbon disulfide	ug/L	20	21.9	110	60-141	
Carbon tetrachloride	ug/L	20	22.2	111	63-126	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

LABORATORY CONTROL SAMPLE: 4488901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	21.8	109	70-130	
Chloroethane	ug/L	20	22.3	112	71-142	
Chloroform	ug/L	20	22.2	111	70-130	
Chloromethane	ug/L	20	24.3	122	40-140	J(v1)
cis-1,2-Dichloroethene	ug/L	20	20.7	104	70-130	
Dibromochloromethane	ug/L	20	22.2	111	62-118	
Dibromomethane	ug/L	20	21.8	109	70-130	
Dichlorodifluoromethane	ug/L	20	21.1	105	47-150	
Ethylbenzene	ug/L	20	21.5	107	70-130	
Isopropylbenzene (Cumene)	ug/L	20	21.5	107	70-130	
Methyl-tert-butyl ether	ug/L	20	19.0	95	64-124	
Methylene Chloride	ug/L	20	20.6	103	65-136	
Styrene	ug/L	20	22.3	111	70-130	
Tetrachloroethene	ug/L	20	21.6	108	64-134	
Toluene	ug/L	20	22.0	110	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	68-127	
Trichloroethene	ug/L	20	22.6	113	70-130	
Trichlorofluoromethane	ug/L	20	21.3	106	65-135	
Vinyl acetate	ug/L	20	24.7	124	60-144	J(v1)
Vinyl chloride	ug/L	20	23.9	120	68-131	
Xylene (Total)	ug/L	60	64.8	108	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4488903

Parameter	Units	35711433007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	20	25.4	127	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	23.4	117	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	22.8	114	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	20	24.7	124	57-145	
1,1-Dichloroethane	ug/L	0.34 U	20	23.7	119	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	22.4	112	66-133	
1,1-Dichloropropene	ug/L	0.31 U	20	24.3	122	70-130	
1,2,3-Trichloropropane	ug/L	0.53 U	20	22.7	113	62-127	
1,2,4-Trimethylbenzene	ug/L	0.58 U	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	0.60 U	20	20.5	103	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	21.7	108	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	22.7	114	70-130	
1,3,5-Trimethylbenzene	ug/L	0.64 U	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	0.33 U	20	21.6	108	70-130	
1,3-Dichloropropane	ug/L	0.26 U	20	22.3	111	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	20.8	104	70-130	
2-Butanone (MEK)	ug/L	6.0 U	100	111	111	47-143	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

MATRIX SPIKE SAMPLE: 4488903

Parameter	Units	35711433007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	10.0 U	100	115	115	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	111	111	57-132	
Acetone	ug/L	9.4 U	100	115	110	46-148	
Benzene	ug/L	0.30 U	20	24.5	122	70-130	
Bromobenzene	ug/L	0.21 U	20	21.9	110	70-130	
Bromochloromethane	ug/L	0.37 U	20	22.0	110	70-130	
Bromodichloromethane	ug/L	0.44 U	20	24.1	121	70-130	
Bromoform	ug/L	2.8 U	20	23.8	119	49-126	
Bromomethane	ug/L	3.9 U	20	9.9 I	50	10-165	J(v3)
Carbon disulfide	ug/L	1.8 U	20	20.3	102	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	26.3	132	63-126	J(M1)
Chlorobenzene	ug/L	0.35 U	20	23.2	116	70-130	
Chloroethane	ug/L	3.7 U	20	20.9	104	71-142	
Chloroform	ug/L	0.56 U	20	23.8	119	70-130	
Chloromethane	ug/L	0.92 U	20	28.4	142	40-140	J(M1),J(v1)
cis-1,2-Dichloroethene	ug/L	0.83 U	20	23.3	116	70-130	
Dibromochloromethane	ug/L	0.97 U	20	22.9	115	62-118	
Dibromomethane	ug/L	0.34 U	20	22.4	112	70-130	
Dichlorodifluoromethane	ug/L	0.84 U	20	24.9	125	47-150	
Ethylbenzene	ug/L	0.30 U	20	23.0	115	70-130	
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	22.4	112	70-130	
Methyl-tert-butyl ether	ug/L	1.6 U	20	18.6	93	64-124	
Methylene Chloride	ug/L	4.4 U	20	22.5	112	65-136	
Styrene	ug/L	0.65 U	20	22.7	113	70-130	
Tetrachloroethene	ug/L	0.38 U	20	22.0	110	64-134	
Toluene	ug/L	0.71 U	20	23.1	116	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	22.4	112	68-127	
Trichloroethene	ug/L	0.36 U	20	24.8	124	70-130	
Trichlorofluoromethane	ug/L	0.82 U	20	25.1	126	65-135	
Vinyl acetate	ug/L	1.8 U	20	23.6	118	60-144	J(v1)
Vinyl chloride	ug/L	0.88 U	20	28.0	140	68-131	J(M1)
Xylene (Total)	ug/L	2.1 U	60	67.6	113	70-130	
1,2-Dichlorobenzene-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 4488902

Parameter	Units	35711433006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	3.5 U		40	
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

SAMPLE DUPLICATE: 4488902

Parameter	Units	35711433006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloropropene	ug/L	0.31 U	0.31 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2,4-Trimethylbenzene	ug/L	0.58 U	0.58 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.64 U	0.64 U		40	
1,3-Dichlorobenzene	ug/L	0.33 U	0.33 U		40	
1,3-Dichloropropane	ug/L	0.26 U	0.26 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.0 U	6.0 U		40	
2-Hexanone	ug/L	10.0 U	10.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	9.4 U	9.4 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromobenzene	ug/L	0.21 U	0.21 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.44 U	0.44 U		40	
Bromoform	ug/L	2.8 U	2.8 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	J(v2)
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.92 U	0.92 U		40	J(v1)
cis-1,2-Dichloroethene	ug/L	0.83 U	0.83 U		40	
Dibromochloromethane	ug/L	0.97 U	0.97 U		40	
Dibromomethane	ug/L	0.34 U	0.34 U		40	
Dichlorodifluoromethane	ug/L	0.84 U	0.84 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Isopropylbenzene (Cumene)	ug/L	0.30 U	0.30 U		40	
Methyl-tert-butyl ether	ug/L	1.6 U	1.6 U		40	
Methylene Chloride	ug/L	4.4 U	4.4 U		40	
Styrene	ug/L	0.65 U	0.65 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.71 U	0.71 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.82 U	0.82 U		40	
Vinyl acetate	ug/L	1.8 U	1.8 U		40	J(v1)
Vinyl chloride	ug/L	0.88 U	0.88 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	103	99		40	
4-Bromofluorobenzene (S)	%	94	97		40	
Toluene-d8 (S)	%	105	107		40	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 817586
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376004

METHOD BLANK: 4489415
Matrix: Water
Associated Lab Samples: 35711376004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/20/22 10:57	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	1.0	0.59	04/20/22 10:57	
1,1,2-Trichloroethane	ug/L	0.30 U	1.0	0.30	04/20/22 10:57	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	5.0	3.5	04/20/22 10:57	J(v2)
1,1-Dichloroethane	ug/L	0.34 U	1.0	0.34	04/20/22 10:57	
1,1-Dichloroethene	ug/L	0.59 U	1.0	0.59	04/20/22 10:57	J(v2)
1,1-Dichloropropene	ug/L	0.31 U	1.0	0.31	04/20/22 10:57	
1,2,3-Trichloropropane	ug/L	0.53 U	2.0	0.53	04/20/22 10:57	
1,2,4-Trimethylbenzene	ug/L	0.58 U	1.0	0.58	04/20/22 10:57	
1,2-Dichlorobenzene	ug/L	0.60 U	1.0	0.60	04/20/22 10:57	
1,2-Dichloroethane	ug/L	0.27 U	1.0	0.27	04/20/22 10:57	
1,2-Dichloropropane	ug/L	0.23 U	1.0	0.23	04/20/22 10:57	
1,3,5-Trimethylbenzene	ug/L	0.64 U	1.0	0.64	04/20/22 10:57	
1,3-Dichlorobenzene	ug/L	0.33 U	1.0	0.33	04/20/22 10:57	
1,3-Dichloropropane	ug/L	0.26 U	1.0	0.26	04/20/22 10:57	
1,4-Dichlorobenzene	ug/L	0.28 U	1.0	0.28	04/20/22 10:57	
2-Butanone (MEK)	ug/L	6.0 U	50.0	6.0	04/20/22 10:57	
2-Hexanone	ug/L	10.0 U	25.0	10.0	04/20/22 10:57	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	25.0	7.5	04/20/22 10:57	
Acetone	ug/L	9.4 U	25.0	9.4	04/20/22 10:57	
Benzene	ug/L	0.30 U	1.0	0.30	04/20/22 10:57	
Bromobenzene	ug/L	0.21 U	1.0	0.21	04/20/22 10:57	
Bromochloromethane	ug/L	0.37 U	1.0	0.37	04/20/22 10:57	
Bromodichloromethane	ug/L	0.44 U	1.0	0.44	04/20/22 10:57	
Bromoform	ug/L	2.8 U	3.0	2.8	04/20/22 10:57	
Bromomethane	ug/L	3.9 U	10.0	3.9	04/20/22 10:57	
Carbon disulfide	ug/L	1.8 U	10.0	1.8	04/20/22 10:57	
Carbon tetrachloride	ug/L	0.44 U	3.0	0.44	04/20/22 10:57	
Chlorobenzene	ug/L	0.35 U	1.0	0.35	04/20/22 10:57	
Chloroethane	ug/L	3.7 U	10.0	3.7	04/20/22 10:57	J(v2)
Chloroform	ug/L	0.56 U	1.0	0.56	04/20/22 10:57	
Chloromethane	ug/L	0.92 U	1.0	0.92	04/20/22 10:57	
cis-1,2-Dichloroethene	ug/L	0.83 U	1.0	0.83	04/20/22 10:57	
Dibromochloromethane	ug/L	0.97 U	2.0	0.97	04/20/22 10:57	
Dibromomethane	ug/L	0.34 U	2.0	0.34	04/20/22 10:57	
Dichlorodifluoromethane	ug/L	0.84 U	1.0	0.84	04/20/22 10:57	J(v2)
Ethylbenzene	ug/L	0.30 U	1.0	0.30	04/20/22 10:57	
Isopropylbenzene (Cumene)	ug/L	0.30 U	1.0	0.30	04/20/22 10:57	
Methyl-tert-butyl ether	ug/L	1.6 U	5.0	1.6	04/20/22 10:57	
Methylene Chloride	ug/L	4.4 U	5.0	4.4	04/20/22 10:57	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

METHOD BLANK: 4489415 Matrix: Water
Associated Lab Samples: 35711376004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/L	0.65 U	1.0	0.65	04/20/22 10:57	
Tetrachloroethene	ug/L	0.38 U	1.0	0.38	04/20/22 10:57	
Toluene	ug/L	0.71 U	1.0	0.71	04/20/22 10:57	
trans-1,2-Dichloroethene	ug/L	0.23 U	1.0	0.23	04/20/22 10:57	
Trichloroethene	ug/L	0.36 U	1.0	0.36	04/20/22 10:57	
Trichlorofluoromethane	ug/L	0.82 U	1.0	0.82	04/20/22 10:57	J(v2)
Vinyl acetate	ug/L	1.8 U	10.0	1.8	04/20/22 10:57	
Vinyl chloride	ug/L	0.88 U	1.0	0.88	04/20/22 10:57	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	04/20/22 10:57	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		04/20/22 10:57	
4-Bromofluorobenzene (S)	%	96	70-130		04/20/22 10:57	
Toluene-d8 (S)	%	104	70-130		04/20/22 10:57	

LABORATORY CONTROL SAMPLE: 4489416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	68-125	
1,1,2-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	15.5	78	57-145	J(v3)
1,1-Dichloroethane	ug/L	20	17.1	85	70-130	
1,1-Dichloroethene	ug/L	20	15.7	79	66-133	J(v3)
1,1-Dichloropropene	ug/L	20	16.7	84	70-130	
1,2,3-Trichloropropane	ug/L	20	20.9	104	62-127	
1,2,4-Trimethylbenzene	ug/L	20	18.6	93	70-130	
1,2-Dichlorobenzene	ug/L	20	18.6	93	70-130	
1,2-Dichloroethane	ug/L	20	18.4	92	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,3,5-Trimethylbenzene	ug/L	20	18.4	92	70-130	
1,3-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,3-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	100	113	113	47-143	
2-Hexanone	ug/L	100	112	112	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	57-132	
Acetone	ug/L	100	109	109	46-148	
Benzene	ug/L	20	18.2	91	70-130	
Bromobenzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	17.2	86	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	
Bromoform	ug/L	20	22.3	112	49-126	
Bromomethane	ug/L	20	20.4	102	10-165	
Carbon disulfide	ug/L	20	17.5	88	60-141	
Carbon tetrachloride	ug/L	20	17.6	88	63-126	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

LABORATORY CONTROL SAMPLE: 4489416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	18.9	94	70-130	
Chloroethane	ug/L	20	14.7	74	71-142	J(v3)
Chloroform	ug/L	20	18.3	92	70-130	
Chloromethane	ug/L	20	20.9	105	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.3	87	70-130	
Dibromochloromethane	ug/L	20	20.0	100	62-118	
Dibromomethane	ug/L	20	19.9	99	70-130	
Dichlorodifluoromethane	ug/L	20	15.0	75	47-150	J(v3)
Ethylbenzene	ug/L	20	17.9	90	70-130	
Isopropylbenzene (Cumene)	ug/L	20	18.2	91	70-130	
Methyl-tert-butyl ether	ug/L	20	16.8	84	64-124	
Methylene Chloride	ug/L	20	18.3	91	65-136	
Styrene	ug/L	20	19.3	97	70-130	
Tetrachloroethene	ug/L	20	20.1	100	64-134	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.3	81	68-127	
Trichloroethene	ug/L	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	20	16.0	80	65-135	J(v3)
Vinyl acetate	ug/L	20	23.6	118	60-144	
Vinyl chloride	ug/L	20	16.6	83	68-131	
Xylene (Total)	ug/L	60	54.7	91	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE SAMPLE: 4489418

Parameter	Units	35711696002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	20	20.5	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	20	20.8	104	68-125	
1,1,2-Trichloroethane	ug/L	0.30 U	20	19.1	96	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	20	19.9	100	57-145	J(v3)
1,1-Dichloroethane	ug/L	0.34 U	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	0.59 U	20	19.0	95	66-133	J(v3)
1,1-Dichloropropene	ug/L	0.31 U	20	20.2	101	70-130	
1,2,3-Trichloropropane	ug/L	0.53 U	20	20.2	101	62-127	
1,2,4-Trimethylbenzene	ug/L	0.58 U	20	18.5	92	70-130	
1,2-Dichlorobenzene	ug/L	0.60 U	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	0.27 U	20	18.3	92	70-130	
1,2-Dichloropropane	ug/L	0.23 U	20	18.7	94	70-130	
1,3,5-Trimethylbenzene	ug/L	0.64 U	20	18.2	91	70-130	
1,3-Dichlorobenzene	ug/L	0.33 U	20	18.6	93	70-130	
1,3-Dichloropropane	ug/L	0.26 U	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	0.28 U	20	18.2	91	70-130	
2-Butanone (MEK)	ug/L	6.0 U	100	85.8	86	47-143	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

MATRIX SPIKE SAMPLE: 4489418

Parameter	Units	35711696002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	10.0 U	100	97.0	97	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	100	93.2	93	57-132	
Acetone	ug/L	9.4 U	100	91.8	92	46-148	
Benzene	ug/L	0.30 U	20	20.3	101	70-130	
Bromobenzene	ug/L	0.21 U	20	18.5	92	70-130	
Bromochloromethane	ug/L	0.37 U	20	17.8	89	70-130	
Bromodichloromethane	ug/L	0.44 U	20	20.4	102	70-130	
Bromoform	ug/L	2.8 U	20	21.4	107	49-126	
Bromomethane	ug/L	3.9 U	20	7.1 I	35	10-165	
Carbon disulfide	ug/L	1.8 U	20	20.4	102	60-141	
Carbon tetrachloride	ug/L	0.44 U	20	20.2	101	63-126	
Chlorobenzene	ug/L	0.35 U	20	19.5	97	70-130	
Chloroethane	ug/L	3.7 U	20	19.8	99	71-142	J(v3)
Chloroform	ug/L	0.56 U	20	19.4	97	70-130	
Chloromethane	ug/L	0.92 U	20	25.0	125	40-140	
cis-1,2-Dichloroethene	ug/L	0.83 U	20	18.4	92	70-130	
Dibromochloromethane	ug/L	0.97 U	20	19.8	99	62-118	
Dibromomethane	ug/L	0.34 U	20	19.2	96	70-130	
Dichlorodifluoromethane	ug/L	0.84 U	20	18.9	95	47-150	J(v3)
Ethylbenzene	ug/L	0.30 U	20	19.2	96	70-130	
Isopropylbenzene (Cumene)	ug/L	0.30 U	20	18.6	93	70-130	
Methyl-tert-butyl ether	ug/L	1.6 U	20	15.8	79	64-124	
Methylene Chloride	ug/L	4.4 U	20	18.1	90	65-136	
Styrene	ug/L	0.65 U	20	19.4	97	70-130	
Tetrachloroethene	ug/L	0.38 U	20	18.5	93	64-134	
Toluene	ug/L	0.71 U	20	19.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	0.23 U	20	18.1	90	68-127	
Trichloroethene	ug/L	0.36 U	20	19.5	98	70-130	
Trichlorofluoromethane	ug/L	0.82 U	20	19.8	99	65-135	J(v3)
Vinyl acetate	ug/L	1.8 U	20	22.2	111	60-144	
Vinyl chloride	ug/L	0.88 U	20	23.6	118	68-131	
Xylene (Total)	ug/L	2.1 U	60	56.9	95	70-130	
1,2-Dichlorobenzene-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4489417

Parameter	Units	35711696001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.59 U	0.59 U		40	
1,1,2-Trichloroethane	ug/L	0.30 U	0.30 U		40	
1,1,2-Trichlorotrifluoroethane	ug/L	3.5 U	3.5 U		40	J(v2)
1,1-Dichloroethane	ug/L	0.34 U	0.34 U		40	
1,1-Dichloroethene	ug/L	0.59 U	0.59 U		40	J(v2)

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QUALITY CONTROL DATA

Project:	Safety Kleen Facility
Pace Project No.:	35711376

SAMPLE DUPLICATE: 4489417

Parameter	Units	35711696001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloropropene	ug/L	0.31 U	0.31 U		40	
1,2,3-Trichloropropane	ug/L	0.53 U	0.53 U		40	
1,2,4-Trimethylbenzene	ug/L	0.58 U	0.58 U		40	
1,2-Dichlorobenzene	ug/L	0.60 U	0.60 U		40	
1,2-Dichloroethane	ug/L	0.27 U	0.27 U		40	
1,2-Dichloropropane	ug/L	0.23 U	0.23 U		40	
1,3,5-Trimethylbenzene	ug/L	0.64 U	0.64 U		40	
1,3-Dichlorobenzene	ug/L	0.33 U	0.33 U		40	
1,3-Dichloropropane	ug/L	0.26 U	0.26 U		40	
1,4-Dichlorobenzene	ug/L	0.28 U	0.28 U		40	
2-Butanone (MEK)	ug/L	6.0 U	6.0 U		40	
2-Hexanone	ug/L	10.0 U	10.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	7.5 U	7.5 U		40	
Acetone	ug/L	9.4 U	9.4 U		40	
Benzene	ug/L	0.30 U	0.30 U		40	
Bromobenzene	ug/L	0.21 U	0.21 U		40	
Bromochloromethane	ug/L	0.37 U	0.37 U		40	
Bromodichloromethane	ug/L	0.44 U	0.44 U		40	
Bromoform	ug/L	2.8 U	2.8 U		40	
Bromomethane	ug/L	3.9 U	3.9 U		40	
Carbon disulfide	ug/L	1.8 U	1.8 U		40	
Carbon tetrachloride	ug/L	0.44 U	0.44 U		40	
Chlorobenzene	ug/L	0.35 U	0.35 U		40	
Chloroethane	ug/L	3.7 U	3.7 U		40	J(v2)
Chloroform	ug/L	0.56 U	0.56 U		40	
Chloromethane	ug/L	0.92 U	0.92 U		40	
cis-1,2-Dichloroethene	ug/L	0.83 U	0.83 U		40	
Dibromochloromethane	ug/L	0.97 U	0.97 U		40	
Dibromomethane	ug/L	0.34 U	0.34 U		40	
Dichlorodifluoromethane	ug/L	0.84 U	0.84 U		40	J(v2)
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
Isopropylbenzene (Cumene)	ug/L	1.6	1.8	13	40	
Methyl-tert-butyl ether	ug/L	1.6 U	1.6 U		40	
Methylene Chloride	ug/L	4.4 U	4.4 U		40	
Styrene	ug/L	0.65 U	0.65 U		40	
Tetrachloroethene	ug/L	0.38 U	0.38 U		40	
Toluene	ug/L	0.71 U	0.71 U		40	
trans-1,2-Dichloroethene	ug/L	0.23 U	0.23 U		40	
Trichloroethene	ug/L	0.36 U	0.36 U		40	
Trichlorofluoromethane	ug/L	0.82 U	0.82 U		40	J(v2)
Vinyl acetate	ug/L	1.8 U	1.8 U		40	
Vinyl chloride	ug/L	0.88 U	0.88 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichlorobenzene-d4 (S)	%	99	102		40	
4-Bromofluorobenzene (S)	%	101	102		40	
Toluene-d8 (S)	%	107	110		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 817483
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAHLV by SIM MSSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376001

METHOD BLANK: 4489072
Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	04/20/22 20:36	
2-Methylnaphthalene	ug/L	0.17 U	2.0	0.17	04/20/22 20:36	
Acenaphthene	ug/L	0.019 U	0.50	0.019	04/20/22 20:36	
Acenaphthylene	ug/L	0.031 U	0.50	0.031	04/20/22 20:36	
Anthracene	ug/L	0.020 U	0.50	0.020	04/20/22 20:36	
Benzo(a)anthracene	ug/L	0.020 U	0.10	0.020	04/20/22 20:36	
Benzo(a)pyrene	ug/L	0.021 U	0.20	0.021	04/20/22 20:36	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	04/20/22 20:36	
Benzo(g,h,i)perylene	ug/L	0.023 U	0.50	0.023	04/20/22 20:36	
Benzo(k)fluoranthene	ug/L	0.024 U	0.50	0.024	04/20/22 20:36	
Chrysene	ug/L	0.026 U	0.50	0.026	04/20/22 20:36	
Dibenz(a,h)anthracene	ug/L	0.025 U	0.15	0.025	04/20/22 20:36	
Fluoranthene	ug/L	0.018 U	0.50	0.018	04/20/22 20:36	
Fluorene	ug/L	0.017 U	0.50	0.017	04/20/22 20:36	
Indeno(1,2,3-cd)pyrene	ug/L	0.024 U	0.15	0.024	04/20/22 20:36	
Naphthalene	ug/L	0.29 U	2.0	0.29	04/20/22 20:36	
Phenanthrene	ug/L	0.019 U	0.50	0.019	04/20/22 20:36	
Pyrene	ug/L	0.032 U	0.50	0.032	04/20/22 20:36	
2-Fluorobiphenyl (S)	%	60	32-100		04/20/22 20:36	
p-Terphenyl-d14 (S)	%	89	48-112		04/20/22 20:36	

LABORATORY CONTROL SAMPLE: 4489073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.7	74	34-103	
2-Methylnaphthalene	ug/L	5	3.7	74	35-100	
Acenaphthene	ug/L	5	4.1	82	38-102	
Acenaphthylene	ug/L	5	3.5	69	35-97	
Anthracene	ug/L	5	4.2	83	46-107	
Benzo(a)anthracene	ug/L	5	4.3	86	55-113	
Benzo(a)pyrene	ug/L	5	3.5	71	51-112	
Benzo(b)fluoranthene	ug/L	5	4.0	79	58-116	
Benzo(g,h,i)perylene	ug/L	5	3.9	79	45-116	
Benzo(k)fluoranthene	ug/L	5	4.0	80	58-118	
Chrysene	ug/L	5	4.5	91	58-120	
Dibenz(a,h)anthracene	ug/L	5	4.0	80	46-114	
Fluoranthene	ug/L	5	4.4	89	54-118	
Fluorene	ug/L	5	4.0	81	40-105	
Indeno(1,2,3-cd)pyrene	ug/L	5	3.9	78	46-114	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

LABORATORY CONTROL SAMPLE: 4489073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	5	3.8	76	34-97	
Phenanthrene	ug/L	5	4.3	85	47-110	
Pyrene	ug/L	5	4.3	87	54-117	
2-Fluorobiphenyl (S)	%			77	32-100	
p-Terphenyl-d14 (S)	%			100	48-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4489078 4489079

Parameter	Units	35711419004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.19 U	5	5	2.2	2.0	43	40	34-103	7	40	
2-Methylnaphthalene	ug/L	0.17 U	5	5	2.2	2.0	43	40	35-100	6	40	
Acenaphthene	ug/L	0.019 U	5	5	2.5	2.4	51	47	38-102	7	40	
Acenaphthylene	ug/L	0.031 U	5	5	2.0	1.9	41	39	35-97	6	40	
Anthracene	ug/L	0.020 U	5	5	2.7	2.5	53	51	46-107	5	40	
Benzo(a)anthracene	ug/L	0.020 U	5	5	2.8	2.7	56	55	55-113	1	40	
Benzo(a)pyrene	ug/L	0.021 U	5	5	2.3	2.2	45	45	51-112	2	40	J(M1)
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	2.6	2.5	53	51	58-116	4	40	J(M1)
Benzo(g,h,i)perylene	ug/L	0.023 U	5	5	2.5	2.5	51	50	45-116	2	40	
Benzo(k)fluoranthene	ug/L	0.024 U	5	5	2.6	2.5	53	51	58-118	4	40	J(M1)
Chrysene	ug/L	0.026 U	5	5	3.0	2.9	60	58	58-120	2	40	
Dibenz(a,h)anthracene	ug/L	0.025 U	5	5	2.6	2.5	52	50	46-114	3	40	
Fluoranthene	ug/L	0.018 U	5	5	2.9	2.8	57	56	54-118	1	40	
Fluorene	ug/L	0.017 U	5	5	2.6	2.4	52	49	40-105	6	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.024 U	5	5	2.5	2.5	51	50	46-114	2	40	
Naphthalene	ug/L	0.29 U	5	5	2.2	2.1	39	37	34-97	5	40	
Phenanthrene	ug/L	0.019 U	5	5	2.8	2.7	57	54	47-110	5	40	
Pyrene	ug/L	0.032 U	5	5	2.8	2.8	57	56	54-117	2	40	
2-Fluorobiphenyl (S)	%						45	42	32-100			
p-Terphenyl-d14 (S)	%						63	63	48-112			

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 818452
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water Full List MSSV
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376001

METHOD BLANK: 4494705
Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
1,2-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/25/22 09:01	
1,2-Dinitrobenzene	ug/L	1.9 U	6.0	1.9	04/25/22 09:01	
1,2-Diphenylhydrazine	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
1,3-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/25/22 09:01	
1,3-Dinitrobenzene	ug/L	1.8 U	8.0	1.8	04/25/22 09:01	
1,4-Dichlorobenzene	ug/L	1.5 U	5.0	1.5	04/25/22 09:01	
1-Methylnaphthalene	ug/L	0.36 U	5.0	0.36	04/25/22 09:01	
2,3,4,6-Tetrachlorophenol	ug/L	1.0 U	5.0	1.0	04/25/22 09:01	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	9.0	1.9	04/25/22 09:01	N2
2,4,5-Trichlorophenol	ug/L	0.23 U	4.0	0.23	04/25/22 09:01	
2,4,6-Trichlorophenol	ug/L	0.36 U	2.0	0.36	04/25/22 09:01	
2,4-Dichlorophenol	ug/L	0.34 U	2.0	0.34	04/25/22 09:01	
2,4-Dimethylphenol	ug/L	1.0 U	5.0	1.0	04/25/22 09:01	
2,4-Dinitrophenol	ug/L	2.6 U	20.0	2.6	04/25/22 09:01	
2,4-Dinitrotoluene	ug/L	1.2 U	4.0	1.2	04/25/22 09:01	
2,6-Dinitrotoluene	ug/L	0.88 U	2.0	0.88	04/25/22 09:01	
2-Chloronaphthalene	ug/L	0.34 U	5.0	0.34	04/25/22 09:01	
2-Chlorophenol	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
2-Methylnaphthalene	ug/L	0.28 U	5.0	0.28	04/25/22 09:01	
2-Methylphenol(o-Cresol)	ug/L	0.30 U	5.0	0.30	04/25/22 09:01	
2-Nitroaniline	ug/L	1.3 U	5.0	1.3	04/25/22 09:01	
2-Nitrophenol	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
3&4-Methylphenol(m&p Cresol)	ug/L	0.22 U	10.0	0.22	04/25/22 09:01	
3,3'-Dichlorobenzidine	ug/L	1.0 U	10.0	1.0	04/25/22 09:01	
3-Nitroaniline	ug/L	1.3 U	5.0	1.3	04/25/22 09:01	
4,6-Dinitro-2-methylphenol	ug/L	4.6 U	20.0	4.6	04/25/22 09:01	
4-Bromophenylphenyl ether	ug/L	1.7 U	5.0	1.7	04/25/22 09:01	
4-Chloro-3-methylphenol	ug/L	5.4 U	20.0	5.4	04/25/22 09:01	
4-Chloroaniline	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
4-Chlorophenylphenyl ether	ug/L	1.4 U	5.0	1.4	04/25/22 09:01	
4-Nitroaniline	ug/L	0.87 U	4.0	0.87	04/25/22 09:01	
4-Nitrophenol	ug/L	2.0 U	20.0	2.0	04/25/22 09:01	
Acenaphthene	ug/L	0.36 U	5.0	0.36	04/25/22 09:01	
Acenaphthylene	ug/L	0.30 U	5.0	0.30	04/25/22 09:01	
Aniline	ug/L	0.94 U	5.0	0.94	04/25/22 09:01	
Anthracene	ug/L	0.22 U	5.0	0.22	04/25/22 09:01	
Benzidine	ug/L	0.87 U	25.0	0.87	04/25/22 09:01	
Benzo(a)anthracene	ug/L	0.20 U	5.0	0.20	04/25/22 09:01	
Benzo(a)pyrene	ug/L	0.17 U	1.0	0.17	04/25/22 09:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

METHOD BLANK: 4494705 Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result		Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(b)fluoranthene	ug/L	0.27	U	2.0	0.27	04/25/22 09:01	
Benzo(g,h,i)perylene	ug/L	0.17	U	5.0	0.17	04/25/22 09:01	
Benzo(k)fluoranthene	ug/L	0.18	U	4.0	0.18	04/25/22 09:01	
Benzyl alcohol	ug/L	1.3	U	5.0	1.3	04/25/22 09:01	
bis(2-Chloroethoxy)methane	ug/L	1.6	U	5.0	1.6	04/25/22 09:01	
bis(2-Chloroethyl) ether	ug/L	0.34	U	4.0	0.34	04/25/22 09:01	
bis(2-Chloroisopropyl) ether	ug/L	1.8	U	6.0	1.8	04/25/22 09:01	
bis(2-Ethylhexyl)phthalate	ug/L	1.4	U	5.0	1.4	04/25/22 09:01	
Butylbenzylphthalate	ug/L	1.1	U	5.0	1.1	04/25/22 09:01	
Caprolactam	ug/L	0.85	U	5.0	0.85	04/25/22 09:01	N2
Carbazole	ug/L	1.1	U	5.0	1.1	04/25/22 09:01	
Chrysene	ug/L	0.20	U	5.0	0.20	04/25/22 09:01	
Di-n-butylphthalate	ug/L	3.6	U	5.0	3.6	04/25/22 09:01	
Di-n-octylphthalate	ug/L	0.92	U	5.0	0.92	04/25/22 09:01	
Dibenz(a,h)anthracene	ug/L	0.18	U	2.0	0.18	04/25/22 09:01	
Dibenzofuran	ug/L	1.5	U	5.0	1.5	04/25/22 09:01	
Diethylphthalate	ug/L	1.4	U	5.0	1.4	04/25/22 09:01	
Dimethylphthalate	ug/L	1.4	U	5.0	1.4	04/25/22 09:01	
Fluoranthene	ug/L	0.21	U	5.0	0.21	04/25/22 09:01	
Fluorene	ug/L	0.34	U	5.0	0.34	04/25/22 09:01	
Hexachloro-1,3-butadiene	ug/L	0.35	U	2.0	0.35	04/25/22 09:01	
Hexachlorobenzene	ug/L	0.29	U	1.0	0.29	04/25/22 09:01	
Hexachlorocyclopentadiene	ug/L	3.4	U	11.0	3.4	04/25/22 09:01	
Hexachloroethane	ug/L	1.4	U	5.0	1.4	04/25/22 09:01	
Indeno(1,2,3-cd)pyrene	ug/L	0.17	U	2.0	0.17	04/25/22 09:01	
Isophorone	ug/L	1.7	U	5.0	1.7	04/25/22 09:01	
N-Nitroso-di-n-propylamine	ug/L	0.33	U	4.0	0.33	04/25/22 09:01	
N-Nitrosodimethylamine	ug/L	0.20	U	2.0	0.20	04/25/22 09:01	
N-Nitrosodiphenylamine	ug/L	1.2	U	5.0	1.2	04/25/22 09:01	
Naphthalene	ug/L	0.39	U	5.0	0.39	04/25/22 09:01	
Nitrobenzene	ug/L	0.37	U	4.0	0.37	04/25/22 09:01	
Pentachlorophenol	ug/L	1.6	U	20.0	1.6	04/25/22 09:01	
Phenanthrene	ug/L	0.23	U	5.0	0.23	04/25/22 09:01	
Phenol	ug/L	0.63	U	5.0	0.63	04/25/22 09:01	
Pyrene	ug/L	0.21	U	5.0	0.21	04/25/22 09:01	
Pyridine	ug/L	1.1	U	5.0	1.1	04/25/22 09:01	
2,4,6-Tribromophenol (S)	%	67		28-114		04/25/22 09:01	
2-Fluorobiphenyl (S)	%	50		22-101		04/25/22 09:01	
2-Fluorophenol (S)	%	31		10-57		04/25/22 09:01	
Nitrobenzene-d5 (S)	%	54		10-188		04/25/22 09:01	
p-Terphenyl-d14 (S)	%	77		48-124		04/25/22 09:01	
Phenol-d6 (S)	%	22		10-48		04/25/22 09:01	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

LABORATORY CONTROL SAMPLE: 4494706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	25.6	51	38-87	
1,2-Dichlorobenzene	ug/L	50	24.4	49	37-83	
1,2-Dinitrobenzene	ug/L	50	39.2	78	55-111	
1,2-Diphenylhydrazine	ug/L	50	37.0	74	47-104	
1,3-Dichlorobenzene	ug/L	50	22.9	46	36-81	
1,3-Dinitrobenzene	ug/L	50	40.7	81	56-104	
1,4-Dichlorobenzene	ug/L	50	23.3	47	37-82	
1-Methylnaphthalene	ug/L	50	30.7	61	42-91	
2,3,4,6-Tetrachlorophenol	ug/L	50	40.2	80	55-106	
2,3,5,6-Tetrachlorophenol	ug/L	50	42.2	84	54-109	N2
2,4,5-Trichlorophenol	ug/L	50	38.1	76	54-97	
2,4,6-Trichlorophenol	ug/L	50	37.5	75	52-97	
2,4-Dichlorophenol	ug/L	50	33.1	66	47-92	
2,4-Dimethylphenol	ug/L	50	32.1	64	48-90	
2,4-Dinitrophenol	ug/L	50	45.8	92	42-120	
2,4-Dinitrotoluene	ug/L	50	39.9	80	60-101	
2,6-Dinitrotoluene	ug/L	50	37.9	76	55-100	
2-Chloronaphthalene	ug/L	50	32.2	64	42-95	
2-Chlorophenol	ug/L	50	27.9	56	41-83	
2-Methylnaphthalene	ug/L	50	30.1	60	42-91	
2-Methylphenol(o-Cresol)	ug/L	50	28.2	56	39-78	
2-Nitroaniline	ug/L	50	38.6	77	53-103	
2-Nitrophenol	ug/L	50	33.8	68	45-93	
3&4-Methylphenol(m&p Cresol)	ug/L	50	26.7	53	37-75	
3,3'-Dichlorobenzidine	ug/L	50	36.8	74	64-106	
3-Nitroaniline	ug/L	50	38.0	76	52-105	
4,6-Dinitro-2-methylphenol	ug/L	50	40.9	82	54-115	
4-Bromophenylphenyl ether	ug/L	50	34.6	69	48-103	
4-Chloro-3-methylphenol	ug/L	50	35.0	70	51-95	
4-Chloroaniline	ug/L	50	34.3	69	52-92	
4-Chlorophenylphenyl ether	ug/L	50	34.8	70	50-97	
4-Nitroaniline	ug/L	50	39.4	79	57-104	
4-Nitrophenol	ug/L	50	16.8 I	34	20-51	
Acenaphthene	ug/L	50	34.7	69	47-96	
Acenaphthylene	ug/L	50	33.7	67	46-99	
Aniline	ug/L	50	30.2	60	43-84	
Anthracene	ug/L	50	37.0	74	58-98	
Benzidine	ug/L	50	6.3 I	13	10-103	
Benzo(a)anthracene	ug/L	50	38.9	78	61-101	
Benzo(a)pyrene	ug/L	50	38.8	78	59-103	
Benzo(b)fluoranthene	ug/L	50	38.8	78	37-118	
Benzo(g,h,i)perylene	ug/L	50	39.9	80	58-107	
Benzo(k)fluoranthene	ug/L	50	40.8	82	61-106	
Benzyl alcohol	ug/L	50	27.7	55	40-82	
bis(2-Chloroethoxy)methane	ug/L	50	32.6	65	44-91	
bis(2-Chloroethyl) ether	ug/L	50	29.6	59	37-91	
bis(2-Chloroisopropyl) ether	ug/L	50	29.0	58	31-97	

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QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

LABORATORY CONTROL SAMPLE: 4494706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	41.1	82	52-113	
Butylbenzylphthalate	ug/L	50	41.1	82	60-111	
Caprolactam	ug/L	50	11.1	22	15-32	N2
Carbazole	ug/L	50	38.1	76	61-101	
Chrysene	ug/L	50	39.0	78	62-102	
Di-n-butylphthalate	ug/L	50	38.9	78	60-105	
Di-n-octylphthalate	ug/L	50	39.4	79	53-112	
Dibenz(a,h)anthracene	ug/L	50	39.6	79	58-107	
Dibenzofuran	ug/L	50	34.7	69	50-95	
Diethylphthalate	ug/L	50	37.6	75	57-98	
Dimethylphthalate	ug/L	50	36.4	73	53-99	
Fluoranthene	ug/L	50	37.6	75	61-102	
Fluorene	ug/L	50	35.5	71	51-96	
Hexachloro-1,3-butadiene	ug/L	50	24.3	49	36-90	
Hexachlorobenzene	ug/L	50	35.6	71	57-97	
Hexachlorocyclopentadiene	ug/L	50	25.4	51	13-100	
Hexachloroethane	ug/L	50	22.5	45	33-84	
Indeno(1,2,3-cd)pyrene	ug/L	50	38.5	77	58-106	
Isophorone	ug/L	50	33.4	67	44-93	
N-Nitroso-di-n-propylamine	ug/L	50	31.6	63	41-96	
N-Nitrosodimethylamine	ug/L	50	20.0	40	25-63	
N-Nitrosodiphenylamine	ug/L	50	37.0	74	56-97	
Naphthalene	ug/L	50	28.7	57	41-87	
Nitrobenzene	ug/L	50	31.6	63	41-91	
Pentachlorophenol	ug/L	50	42.8	86	48-112	
Phenanthrene	ug/L	50	36.8	74	58-98	
Phenol	ug/L	50	13.4	27	17-40	
Pyrene	ug/L	50	39.4	79	61-104	
Pyridine	ug/L	50	15.3	31	14-60	
2,4,6-Tribromophenol (S)	%			81	28-114	
2-Fluorobiphenyl (S)	%			62	22-101	
2-Fluorophenol (S)	%			33	10-57	
Nitrobenzene-d5 (S)	%			62	10-188	
p-Terphenyl-d14 (S)	%			79	48-124	
Phenol-d6 (S)	%			25	10-48	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4494709 4494710

Parameter	Units	35711711073 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	1.5 U	51.5	49.6	13.8	12.4	27	25	38-87	11	40	J(M1)
1,2-Dichlorobenzene	ug/L	1.6 U	51.5	49.6	12.5	11.3	24	23	37-83	10	40	J(M1)
1,2-Dinitrobenzene	ug/L	2.0 U	51.5	49.6	34.5	31.4	67	63	55-111	9	40	
1,2-Diphenylhydrazine	ug/L	1.4 U	51.5	49.6	31.5	28.2	61	57	47-104	11	40	
1,3-Dichlorobenzene	ug/L	1.6 U	51.5	49.6	11.5	10.4	22	21	36-81	10	40	J(M1)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4494709 4494710

Parameter	Units	35711711073 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dinitrobenzene	ug/L	1.8 U	51.5	49.6	35.4	32.4	69	65	56-104	9	40	
1,4-Dichlorobenzene	ug/L	1.6 U	51.5	49.6	11.9	10.7	23	22	37-82	10	40	J(M1)
1-Methylnaphthalene	ug/L	0.37 U	51.5	49.6	19.6	17.2	38	35	42-91	13	40	J(M1)
2,3,4,6-Tetrachlorophenol	ug/L	1.1 U	51.5	49.6	34.6	31.5	67	63	55-106	9	40	
2,3,5,6-Tetrachlorophenol	ug/L	1.9 U	51.5	49.6	36.4	33.0	71	67	54-109	10	40	N2
2,4,5-Trichlorophenol	ug/L	0.24 U	51.5	49.6	31.5	28.4	61	57	54-97	10	40	
2,4,6-Trichlorophenol	ug/L	0.37 U	51.5	49.6	29.1	26.1	57	53	52-97	11	40	
2,4-Dichlorophenol	ug/L	0.35 U	51.5	49.6	22.0	19.2	43	39	47-92	14	40	J(M1)
2,4-Dimethylphenol	ug/L	1.1 U	51.5	49.6	21.6	18.7	42	38	48-90	15	40	J(M1)
2,4-Dinitrophenol	ug/L	2.7 U	51.5	49.6	40.9	38.5	80	78	42-120	6	40	
2,4-Dinitrotoluene	ug/L	1.2 U	51.5	49.6	35.8	32.9	70	66	60-101	8	40	
2,6-Dinitrotoluene	ug/L	0.90 U	51.5	49.6	32.8	29.5	64	59	55-100	11	40	
2-Chloronaphthalene	ug/L	0.35 U	51.5	49.6	21.3	18.6	41	37	42-95	14	40	J(M1)
2-Chlorophenol	ug/L	1.4 U	51.5	49.6	15.9	13.5	31	27	41-83	16	40	J(M1)
2-Methylnaphthalene	ug/L	0.29 U	51.5	49.6	18.9	16.9	37	34	42-91	11	40	J(M1)
2-Methylphenol(o-Cresol)	ug/L	0.31 U	51.5	49.6	17.0	14.1	33	28	39-78	18	40	J(M1)
2-Nitroaniline	ug/L	1.3 U	51.5	49.6	33.1	29.9	64	60	53-103	10	40	
2-Nitrophenol	ug/L	1.4 U	51.5	49.6	19.9	17.5	39	35	45-93	12	40	J(M1)
3&4-Methylphenol(m&p Cresol)	ug/L	0.23 U	51.5	49.6	16.7	14.0	33	28	37-75	18	40	J(M1)
3,3'-Dichlorobenzidine	ug/L	1.1 U	51.5	49.6	35.6	32.9	69	66	64-106	8	40	
3-Nitroaniline	ug/L	1.3 U	51.5	49.6	34.8	31.3	68	63	52-105	10	40	
4,6-Dinitro-2-methylphenol	ug/L	4.7 U	51.5	49.6	37.9	34.4	74	69	54-115	10	40	
4-Bromophenylphenyl ether	ug/L	1.7 U	51.5	49.6	30.0	26.8	58	54	48-103	12	40	
4-Chloro-3-methylphenol	ug/L	5.5 U	51.5	49.6	28.4	24.9	55	50	51-95	13	40	J(M1)
4-Chloroaniline	ug/L	1.4 U	51.5	49.6	26.5	23.4	52	47	52-92	12	40	J(M1)
4-Chlorophenylphenyl ether	ug/L	1.5 U	51.5	49.6	28.8	25.1	56	51	50-97	14	40	
4-Nitroaniline	ug/L	0.89 U	51.5	49.6	36.2	33.9	70	68	57-104	7	40	
4-Nitrophenol	ug/L	2.0 U	51.5	49.6	16.2 I	14.5 I	31	29	20-51		40	
Acenaphthene	ug/L	0.37 U	51.5	49.6	27.3	23.9	53	48	47-96	13	40	
Acenaphthylene	ug/L	0.31 U	51.5	49.6	25.8	22.8	50	46	46-99	12	40	
Aniline	ug/L	0.96 U	51.5	49.6	21.2	19.4	41	39	43-84	9	40	J(M1)
Anthracene	ug/L	0.23 U	51.5	49.6	33.6	30.4	65	61	58-98	10	40	
Benzidine	ug/L	0.89 U	51.5	49.6	16.5 I	11.0 I	32	22	10-103		40	
Benzo(a)anthracene	ug/L	0.20 U	51.5	49.6	38.2	35.4	74	71	61-101	8	40	
Benzo(a)pyrene	ug/L	0.17 U	51.5	49.6	36.8	33.7	71	68	59-103	9	40	
Benzo(b)fluoranthene	ug/L	0.28 U	51.5	49.6	37.6	35.0	73	70	37-118	7	40	
Benzo(g,h,i)perylene	ug/L	0.17 U	51.5	49.6	36.8	34.6	71	69	58-107	6	40	
Benzo(k)fluoranthene	ug/L	0.18 U	51.5	49.6	38.3	35.6	74	72	61-106	7	40	
Benzyl alcohol	ug/L	1.3 U	51.5	49.6	17.9	15.4	35	31	40-82	15	40	J(M1)
bis(2-Chloroethoxy)methane	ug/L	1.7 U	51.5	49.6	19.5	17.1	38	34	44-91	13	40	J(M1)
bis(2-Chloroethyl) ether	ug/L	0.35 U	51.5	49.6	16.6	14.4	32	29	37-91	14	40	J(M1)
bis(2-Chloroisopropyl) ether	ug/L	1.8 U	51.5	49.6	16.1	13.9	31	28	31-97	14	40	J(M1)
bis(2-Ethylhexyl)phthalate	ug/L	1.4 U	51.5	49.6	39.5	35.6	77	71	52-113	11	40	
Butylbenzylphthalate	ug/L	1.1 U	51.5	49.6	41.0	38.4	80	77	60-111	7	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4494709 4494710

Parameter	Units	35711711073 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Caprolactam	ug/L	0.87 U	51.5	49.6	9.8	8.5	19	17	15-32	13	40	N2
Carbazole	ug/L	1.1 U	51.5	49.6	36.5	33.1	71	67	61-101	10	40	
Chrysene	ug/L	0.20 U	51.5	49.6	38.9	35.9	75	72	62-102	8	40	
Di-n-butylphthalate	ug/L	3.7 U	51.5	49.6	36.9	33.5	71	67	60-105	10	40	
Di-n-octylphthalate	ug/L	0.94 U	51.5	49.6	37.9	34.3	73	69	53-112	10	40	
Dibenz(a,h)anthracene	ug/L	0.18 U	51.5	49.6	37.1	34.5	72	69	58-107	7	40	
Dibenzofuran	ug/L	1.5 U	51.5	49.6	27.5	24.6	53	50	50-95	11	40	
Diethylphthalate	ug/L	1.4 U	51.5	49.6	33.3	30.6	65	62	57-98	8	40	
Dimethylphthalate	ug/L	1.5 U	51.5	49.6	31.5	28.4	61	57	53-99	10	40	
Fluoranthene	ug/L	0.22 U	51.5	49.6	36.2	32.8	70	66	61-102	10	40	
Fluorene	ug/L	0.35 U	51.5	49.6	29.7	26.2	58	53	51-96	13	40	
Hexachloro-1,3-butadiene	ug/L	0.36 U	51.5	49.6	12.0	10.9	23	22	36-90	10	40	J(M1)
Hexachlorobenzene	ug/L	0.30 U	51.5	49.6	31.9	28.8	62	58	57-97	10	40	
Hexachlorocyclopentadiene	ug/L	3.5 U	51.5	49.6	14.1	11.9	27	24	13-100	17	40	
Hexachloroethane	ug/L	1.4 U	51.5	49.6	10.8	9.7	21	20	33-84	10	40	J(M1)
Indeno(1,2,3-cd)pyrene	ug/L	0.17 U	51.5	49.6	35.9	33.6	70	67	58-106	7	40	
Isophorone	ug/L	1.7 U	51.5	49.6	21.0	18.3	41	37	44-93	14	40	J(M1)
N-Nitroso-di-n-propylamine	ug/L	0.34 U	51.5	49.6	18.7	16.5	36	33	41-96	13	40	J(M1)
N-Nitrosodimethylamine	ug/L	0.20 U	51.5	49.6	12.2	10.7	24	22	25-63	13	40	J(M1)
N-Nitrosodiphenylamine	ug/L	1.2 U	51.5	49.6	32.7	29.6	64	60	56-97	10	40	
Naphthalene	ug/L	0.40 U	51.5	49.6	16.6	14.8	32	30	41-87	11	40	J(M1)
Nitrobenzene	ug/L	0.38 U	51.5	49.6	18.2	16.2	35	33	41-91	12	40	J(M1)
Pentachlorophenol	ug/L	1.7 U	51.5	49.6	40.0	36.5	78	73	48-112	9	40	
Phenanthrene	ug/L	0.24 U	51.5	49.6	34.1	30.7	66	62	58-98	10	40	
Phenol	ug/L	0.65 U	51.5	49.6	7.8	6.3	15	13	17-40	20	40	J(M1)
Pyrene	ug/L	0.22 U	51.5	49.6	38.1	35.1	74	70	61-104	8	40	
Pyridine	ug/L	1.1 U	51.5	49.6	11.4	10.6	22	21	14-60	7	40	
2,4,6-Tribromophenol (S)	%						66	64	28-114			
2-Fluorobiphenyl (S)	%						39	36	22-101			
2-Fluorophenol (S)	%						17	15	10-57			
Nitrobenzene-d5 (S)	%						34	31	10-188			
p-Terphenyl-d14 (S)	%						71	68	48-124			
Phenol-d6 (S)	%						13	11	10-48			

QUALITY CONTROL DATA

Project: Safety Kleen Facility
Pace Project No.: 35711376

QC Batch: 817735
QC Batch Method: EPA 3510
Analysis Method: FL-PRO
Analysis Description: FL-PRO Water Low Volume
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35711376001

METHOD BLANK: 4490248 Matrix: Water
Associated Lab Samples: 35711376001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Petroleum Range Organics	mg/L	0.80 U	1.0	0.80	04/21/22 12:53	
N-Pentatriacontane (S)	%	109	42-159		04/21/22 12:53	
o-Terphenyl (S)	%	89	66-139		04/21/22 12:53	

LABORATORY CONTROL SAMPLE: 4490249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/L	5	5.1	102	66-119	
N-Pentatriacontane (S)	%			112	42-159	
o-Terphenyl (S)	%			96	66-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4490250 4490251

Parameter	Units	35711419004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/L	0.75 U	4.7	4.6	4.2	3.6	83	72	65-123	15	20	
N-Pentatriacontane (S)	%						104	98	42-159			
o-Terphenyl (S)	%						87	75	66-139			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

QUALIFIERS

Project: Safety Kleen Facility
Pace Project No.: 35711376

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(v1)	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
J(v2)	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
J(v3)	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Safety Kleen Facility
Pace Project No.: 35711376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35711376001	**MW-2R-04182022**	EPA 3510	817735	FL-PRO	817883
35711376001	**MW-2R-04182022**	EPA 200.8	817116	EPA 200.8	817246
35711376002	**MW-1-04182022**	EPA 200.8	817116	EPA 200.8	817246
35711376003	**MW-3-04182022**	EPA 200.8	817116	EPA 200.8	817246
35711376001	**MW-2R-04182022**	EPA 3510	817483	EPA 8270 by SIM	817758
35711376001	**MW-2R-04182022**	EPA 3510	818452	EPA 8270	818692
35711376001	**MW-2R-04182022**	EPA 8260	817412		
35711376004	**Trip Blank**	EPA 8260	817586		

Pace

CHAIN-OF-CUSTODY / Analytical Request Dc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacela

WO# : 35711376

35711376

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environmental Consulting & Technology-Tampa	Report To:	Keith Morrison	Attention:	
Address:	1408 North Westshore Bllvd	Copy To:		Company Name:	
	Suite 115, Tampa, FL 33607			Address:	
Email:	kmorriscn@ectinc.com	Purchase Order #:	210212-0200	Pace Quote:	
Phone:	813-493-0383 Fax:	Project Name:	Safety Kleen Facility	Pace Project Manager:	lori.palmer@pacelabs.com,
Requested Due Date:		Project #:	210212-0200	Pace Profile #:	9321 line 1

Regulatory Agency
State / Location
FL

MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME Sample	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N Analyses Test	8260 Full List	8270 Full list plus PAHs	FL Pro Low Volume for Waters	Metals 200.8 Ag,Cd,Cr,Pb	8270 Full list plus PAHs MS/MSD	FL PRO MS/MSD	8260 Trip Blank						Residual Chlorine (Y/N)	Samples per Safety-Kleen modkey Annual IW Permit #IW-000333-2021/2022
1	MW-2R -04182022	WT		—	—	4-18-22	1012		8	X	X	X	X						X	X	X	X	X	X								
2	MW-1 -04182022	WT		—	—	4-18-22	901		1			X										X										
3	MW-3 -04182022	WT		—	—	4-18-22	938		1			X										X										
4	Trip Blank	WT		—	—	—	—		2			X													X							
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Bottle Kit	Leatha Shaffer Pace	4-7-22	1112	Keith F Morrison/ECT	4-8-22	1400	RC			
	Keith F Morrison/ECT	4-18-22	1515	Dawn Sargent	4-18-22	1515	6.4	Y	N	Y
Quote # 00107181										
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keith F. Morrison - ECT

SIGNATURE of SAMPLER: Keith Morrison DATE Signed: 4-18-22

DC#_Title: ENV-FRM-ORB1-0093 Sample Condition Upon Receipt Form
Version: 3 | Effective Date: 12/29/2021 | Issued by: Ormond Beach

Pace

UR)

WO#: 35711376
PM: LAP Due Date: 04/25/22
CLIENT: 37-ECTTAM

Project #
Project Manager:
Client:

Date and Initials of person: DH
Examining contents:
Label: 4.18.22
Deliver:
pH:

Thermometer Used: T202 Date: 4-18-22 Time: 1515 Initials: DS

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 6.2 **(Visual)** +0.2 **(Correction Factor)** 6.4 **(Actual)** ☑ Samples on ice, cooling process has begun
Cooler #2 Temp.°C_____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C_____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C_____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C_____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C_____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Recheck for OOT °C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual) Time:**_____ **Initials:**_____

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other_____
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other_____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** [✓ Wet] Blue Melted None

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Samples shorted to lab (If Yes, complete) Shorted Date:_____ Shorted Time:_____ Qty:_____

		Comments:
Chain of Custody Present	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☑ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked. All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑ Yes ☐ No ☐ N/A ☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
Headspace In VOA Vials? (>6mm):	☐ Yes ☐ No ☑ N/A	
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Comments/ Resolution (use back for additional comments):_____

Tab 11

Part II.S Subpart BB and CC

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 the RCRA-Permitted Hazardous Waste Tank (Used Solvent), miscellaneous unit, and ancillary equipment. The regulations in this subpart apply to owners and operators of facilities that treat, store, dispose, or recycle hazardous wastes (except as provided in 264.1) and apply to equipment that contains or contacts hazardous wastes with organic concentrations of at least 10% by weight that are managed in units that are subject to the permitting requirements of Part 270.

"Equipment" is defined in 40 CFR 264.1031 as each valve, pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, or flange or other connector, and any control devices or systems required by Subpart BB. Each piece of equipment at the Safety-Kleen Medley facility is marked in such a manner that it can be distinguished readily from other pieces of equipment (see figures 11.1-1/11.1-2 at the end of this section).

The information contained here are specific procedures for the Safety-Kleen Medley branch to implement the Leak Detection and Repair Program. Appendix D of this permit application, Procedures for Compliance with RCRA Subparts BB and CC, is a Branch Operating Guideline overview and training document used at all Safety-Kleen branches to guide personnel on compliance with Subparts BB/CC.

Implementation Schedule

Implementation of the Leak Detection and Repair Program is the responsibility of the Safety-Kleen Branch Manager and facility personnel he/she designates

Equipment Standards

Pumps in Light Liquid Service (40 CFR 264.1052)

The facility has no pumps that contain or contact hazardous waste in light service.

Compressors (40 CFR 264.1053)

The facility has no compressors that contain or contact hazardous waste.

Pressure Relief Devices in Gas/Vapor Service (40 CFR 264.1054)

The facility does not maintain any pressure relief devices that contain or contact hazardous waste in gas/vapor service or closed vent systems or control devices.

Sampling Connecting Systems (40 CFR 264.1055)

The facility does not have any sampling connecting or in situ sampling systems. Recurring sampling of waste in contact with this equipment is not necessary since Safety-Kleen has determined that all liquid hazardous wastes in the equipment regulated by Subpart BB is presumed to be greater than 10% organic concentration and all equipment at the facility is to be managed in heavy liquid service as defined in 264.1031. Documentation of the actual vapor pressure for the hazardous wastes in contact with this equipment is maintained in the operating record at the facility. The vapor pressure of the used parts washer solvent at 20°C is approximately 0.11 kPa (2 mm-Hg).

Open-Ended Valves or Lines (40 CFR 264.1056)

Each open-ended valve or line will be equipped with a cap, blind flange, plug, or a second valve. The cap, blind flange, plug, or second valve will 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 will 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 but will comply with paragraph (a) of 40 CFR 264.1056 at all other times.

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)

Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors will be monitored within 5 days by the method specified in 264.1063(b) if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

The RCRA-Permitted Hazardous Waste Tank (Used Solvent) is provided with a pressure relief device as indicated in Part II.C of the permit application. The device is a Morrison Brothers UL listed 8” Flanged Emergency Pressure Relief Vent, which is located on top of the 24” diameter long-bolted manway on the fixed tank roof. The emergency vent is designed to relieve excessive internal pressure in the event of fire or adverse chemical reaction. Should there be an event causing the pressure relief vent to be activated, the device will be visually inspected to ensure it is in good working condition.

At the present time, the pumps, valves, flanges, and other connectors at the Medley facility are used for heavy liquid service. As defined in 40 CFR 264.1031, the used parts washer 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 Medley facility have a maximum of 2,000 ppm concentration in the vapor phase. Therefore, a portable organic vapor analyzer will not be used for leak detection because leaks cannot result in concentrations of more than 10,000 ppm. Equipment leaks will be monitored based on visual inspection/observation. If a leak is detected, the piece of equipment is tagged and identified with the equipment number and date of actual leak detection. When a leak is detected, it will be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 264.1059. The first attempt at repair will be made no later than 5 calendar days after any leak is detected. First attempts at repair include, but are not limited to, the best practices under 264.1057(e), such as tightening or replacement of bonnet bolts, tightening of packing gland nuts, injection of lubricant into lubricated packing, etc. Repair tags identifying leaking or damaged equipment, except those tags on valves, will be removed after repair of the equipment.
Difficult to monitor equipment will be visually inspected on an annual basis due to the safety hazards inherent to inspecting these items.

Delay of Repair (40 CFR 264.1059)

The facility may delay repair of equipment for which leaks have been detected if the repair is technically infeasible without a hazardous waste unit shutdown. In such a case, repair of this equipment will occur before the end of the next hazardous waste management unit shutdown. Delay of repair of equipment for which leaks have been detected will be allowed for equipment that is isolated from the hazardous waste management unit and that does not continue to contain or contact hazardous waste with organic concentrations at least 10% by weight. Delay of repair for valves will be allowed if:

1. The facility determines that emissions of purged material resulting from immediate repair are greater than the emissions likely to result from delay of repair.
2. When repair procedures are affected, the purged material will be collected and destroyed or recovered in a control device complying with 254.1060.

The Facility may delay repair beyond a hazardous waste management unit shut down for a valve if valve assembly replacement is necessary during the hazardous waste management unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next hazardous waste management unit shutdown will not be allowed unless the next hazardous waste management unit shutdown occurs sooner than 6 months after the first hazardous waste management unit shutdown.

Testing

The facility will comply with the following test methods and procedures:

A. The facility will determine, for each piece of equipment, whether the equipment contains or contacts a hazardous waste with organic concentration that equals or exceeds 10% by weight using the following:
    1. Methods described in ASTM Methods D 2267-88, E 169-87, E 168-88, E 260-85 (incorporated by reference under 260.11); or
    2. Method 9060A of SW-846 (incorporated by reference under 260.11); or
    3. Application of the knowledge of the nature of the hazardous waste stream or the process by which it was produced. Documentation of a waste determination by knowledge is required. Examples of documentation that will be used to support a determination under this provision include production process information that the waste is generated by a process that is identical to a process at the same or another facility that has previously been demonstrated by direct measurement to have total organic content less than 10%, or prior speciation analysis results on the same waste stream where it can also be documented that no process changes have occurred since that analysis that could affect the waste total organic concentration.
    4. All liquid hazardous waste in the equipment regulated by Subpart BB at this facility is presumed to be greater than 10% organic concentration and all equipment is to be managed in heavy liquid service as defined in 264.1031.

Documentation of the actual vapor pressure is maintained in the operating record at the facility, and the vapor pressure of the used parts washer solvent at 20°C is approximately 0.11 kPa (2 mm-Hg).

B. If the facility determines that a piece of equipment contains or contacts a hazardous waste with organic concentrations at least 10% by weigh, the determination can be revised only after following the procedures in items A(1) or A(2) above.

C. Samples used in determining the percent of organic content will be representative of the highest total organic content hazardous waste that is expected to be contained in or contact the equipment. Sampling methods for obtaining representative samples of hazardous waste for analysis under this section are the same as those found in the Waste Analysis Plan (Part II Waste Analysis Plan WAP).

Recordkeeping Requirements (40 CFR 264.1064)

The facility will maintain the recordkeeping requirements for all hazardous waste management Units subject to the provisions of Subpart BB in one recordkeeping system. The following Information will be recorded in the facility operating record and maintained on-site for a minimum of three (3) years:

1. For each piece of equipment to which Subpart BB applies:
    a. Equipment identification number and hazardous waste management unit identity.
    b. Approximate locations within the facility (identify the hazardous waste management units on a facility site plan).
    c. Type of equipment (e.g., pump or pipeline valve).
    d. Percentage of total organics in the hazardous waste stream which contacts equipment subject to this regulation is 100% by weight.
    e. Hazardous waste state at the equipment (e.g., gas/vapor or liquid).
    f. Method of compliance with the standard (e.g., daily inspections, leak detection and repair).
2. When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following applicable requirements apply:
    a. A weatherproof and readily visible identification, marked with the equipment identification number, date of evidence of a potential leak was found in accordance with 264.1058(a), and date the leak was detected, will be attached to the leaking equipment.

   b. The identification on equipment, except on a valve, may be removed after it has been repaired.
   c. The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 264.1057(c) and no leak has been detected during those 2 months.
3. When each leak is detected as specified in 264.1052, 264.1053, 264.1057, and 264.1058, the following information will be recorded in an inspection log and will be kept in the facility operating record:
   a. The instrument and operator identification numbers and the equipment identification number.
   b. The date of evidence of a potential leak was found in accordance with 264.1058(a).
   c. The date the leak was detected and the dates of each attempt to repair the leak.
   d. Repair methods applied in each attempt to repair the leak.
   e. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
   f. Documentation supporting the delay of repair of a valve in compliance with 264.1059(c).
   g. The signature of the owner or operator (or designee) whose decision it was that the repair could not be affected without a hazardous waste management unit shutdown.
   h. The expected date of successful repair of the leak, if a leak is not repaired within 15 calendar days.
   i. The date of successful repair of the leak.
4. The following information pertaining to all applicable equipment subject to the requirements in 264.1052 through 264.1060 will be recorded in a log that is kept in the facility operating record:
   a. A list of identification numbers for equipment (except welded fittings) subject to the requirements of Subpart BB.
   b. A list of identification numbers for equipment that the facility elects to designate for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, under the provisions of 264.1052(e), 264.1053(i), and 264.1057(f).

   c. The designation of this equipment as subject to the requirements of 264.1052(e), 264.1053(i), or 264.1057(f) will be signed by the owner or operator.
   d. A list of equipment identification numbers for pressure relief devices required to comply with 264.1054(a).
   e. The dates of each compliance test required in 264.1052(e), 264.1053(i) 264.1054, and 264.1057(f), as applicable.
   f. The background level measured during each compliance test.
   g. The maximum instrument reading measured at the equipment during each compliance test.
   h. A list of identification numbers for equipment in vacuum service.
5. The following information will be recorded in the facility operating record for use in determining exemptions as provided in the applicability section of this subpart and other specific subparts.
   a. An analysis determining the design capacity of the hazardous waste management unit.
   b. A statement listing the hazardous waste influent to and the effluent from each hazardous waste management unit subject to the requirements in 264.1052 through 264.1060 and an analysis determining whether these hazardous wastes are heavy liquids.
   c. An up-to-date analysis and the supporting information and data used to determine whether equipment is subject to the requirements in 264.1052 through 264.1060. The record will include supporting documentation as required by 264.1063(d((3) when application of the knowledge of the nature of the hazardous waste stream or the process by which it was produced is used. If the facility takes any action (e.g., changing the process that produced the waste) that could result in an increase in the total organic content of the waste contained in or contacted by the equipment determined not to be subject to the requirements in 264.1052 through 264.1060, then a new determination is required.
6. Records of the equipment leak information and the operating information required by paragraph (d) and (e) of 264.1064 need only be kept for three (3) years. The Leak Detection and Repair Record used by the Safety-Kleen Medley facility is found at the end of this section (Figure 11.1-3). Each piece of equipment which will be in hazardous waste service has been described by type and assigned a unique identification number. The location of the equipment within the hazardous waste management unit will be

identified and placed in the Operating Record. 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 (Form CO Tank Sys BB Equipment Inspection, found at the end of this section), and a list of equipment inspected is found on Figure 11.1-2, found at the end of this section. If an issue arises with the electronic inspection system, they will be completed on paper using Figure 11.1-2. 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, found at the end of this section.

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 used parts washer solvent has a maximum of 2,000 ppm concentration in the vapor phase.

Reporting Requirements (40 CFR 264.1065)

Safety-Kleen will submit reports as required by 40 CFR Part 264.1065 to the Regional Administrator.

AIR EMISSION STANDARDS FOR TANKS, AND CONTAINERS

Safety-Kleen's Medley 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.

EXEMPTIONS FROM 40 CFR 264.1084 – 264.1087 STANDARDS

Not applicable – The hazardous waste management units at this facility that are subject to Subpart CC requirements do not qualify for these stipulated exemptions.

Subpart CC Tank Standards (40 CFR 265.1084)

The Safety-Kleen Medley facility manages hazardous wastes in a tank system that consists of one 20,000-gallon storage tank and ancillary equipment. 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 for criteria). A list of 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 (39,800 gallons)	< 5.2 kPa (0.76 psia)
> 19800 gallons < 39,800 gallons	27.6 kPa (4.05 psia)
< 19,800 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. The storage tank at this facility is not heated to temperature greater than the temperature at which maximum organic vapor pressure of the waste is determined for purposes of compliance with this standard. See Table 11.2-1, found at the end of this section, for a summary of the tank at the Medley facility subject to the requirements of Subpart CC, and the applicable controls.

Level 1 Tank Requirements (40 CFR 264.1084(c))

Safety-Kleen used 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 this tank is used Safety-Kleen Premium 150 Solvent. The waste managed in this tank is not being treated using a stabilization process, as defined in 40 CFR 265.1081. The storage tank 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 logs for tank system can be found in Part II C.

Level 2 Tanks (40 CFR 265..1084(d))

There are no level 2 tanks at this facility.

MISCELLANEOUS UNITS

Description and Applicability of Miscellaneous Units (Subpart X)

The drum washer/wet dumpster unit at the facility are managed under the Subpart X – Miscellaneous Units Standards of 40 CFR 264.600. This unit is located, designed, constructed, operated and maintained in a manner to protect human health and the environment. The unit is located within an area provided with secondary containment, as described in Part II.C, to prevent any potential releases from migrating to the surrounding subsurface or groundwater.

The drum washer/wet dumpster unit is designed to allow employees to empty drums of used parts washer solvent into the unit, rinse/clean the drums via a spray system with used solvent pumped within the unit by a recirculation pump. These drums are then refilled with clean recycled or virgin parts washer solvent. As designed and utilized, this unit is simply a device used to effectively convey the contents of the used parts washer solvent drums to the on-site RCRA-Permitted Hazardous Waste Tank (Used Solvent). The drum washer/wet dumpster unit is not designed or intended to treat, store, or accumulate hazardous waste.

When not actively being used to receive used parts washer solvent, or clean drums, the unit will be maintained in a closed position. The internal sump at the bottom of the wet dumpster will be emptied at the end of each day’s operating shift.

The unit will be inspected for leaks or malfunctions each operating day in accordance with the inspection procedures outlined in Part II.C. The physical and chemical characteristics of the used parts washer solvent transferred through this unit can be found in Part II.A.5.

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. Part II.B of the permit application provides a summary of types of containers managed for which subpart CC is applicable. In addition, Table 11.2-2 (found at the end of this section) provides a summary of the areas, and types of containers managed, at the Medley 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 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 a 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, whichever occurs first. RCRA empty containers may be open to the atmosphere at any time.

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, roll-off 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.

Miscellaneous Units

If a leak is detected from the drum washer/wet dumpster unit during the daily visual inspection, the defect will be repaired no later than 45 days from the date of the detection, unless the standards associated with delay of repair (40 CFR 264.1084(k)(2) apply. First attempts to repair the equipment will occur within 5 days after the leak confirmation. Additional information concerning procedures for the inspection and detection of leaks from the equipment associated with the drum washer/wet dumpster unit can be found in Part II.C of this application.

Safety-Kleen has performed emissions monitoring of these units at numerous of its’ facilities across the U.S. and this data has consistently shown that VOC emission levels are considerably below the 10,000 ppm leak detection threshold.

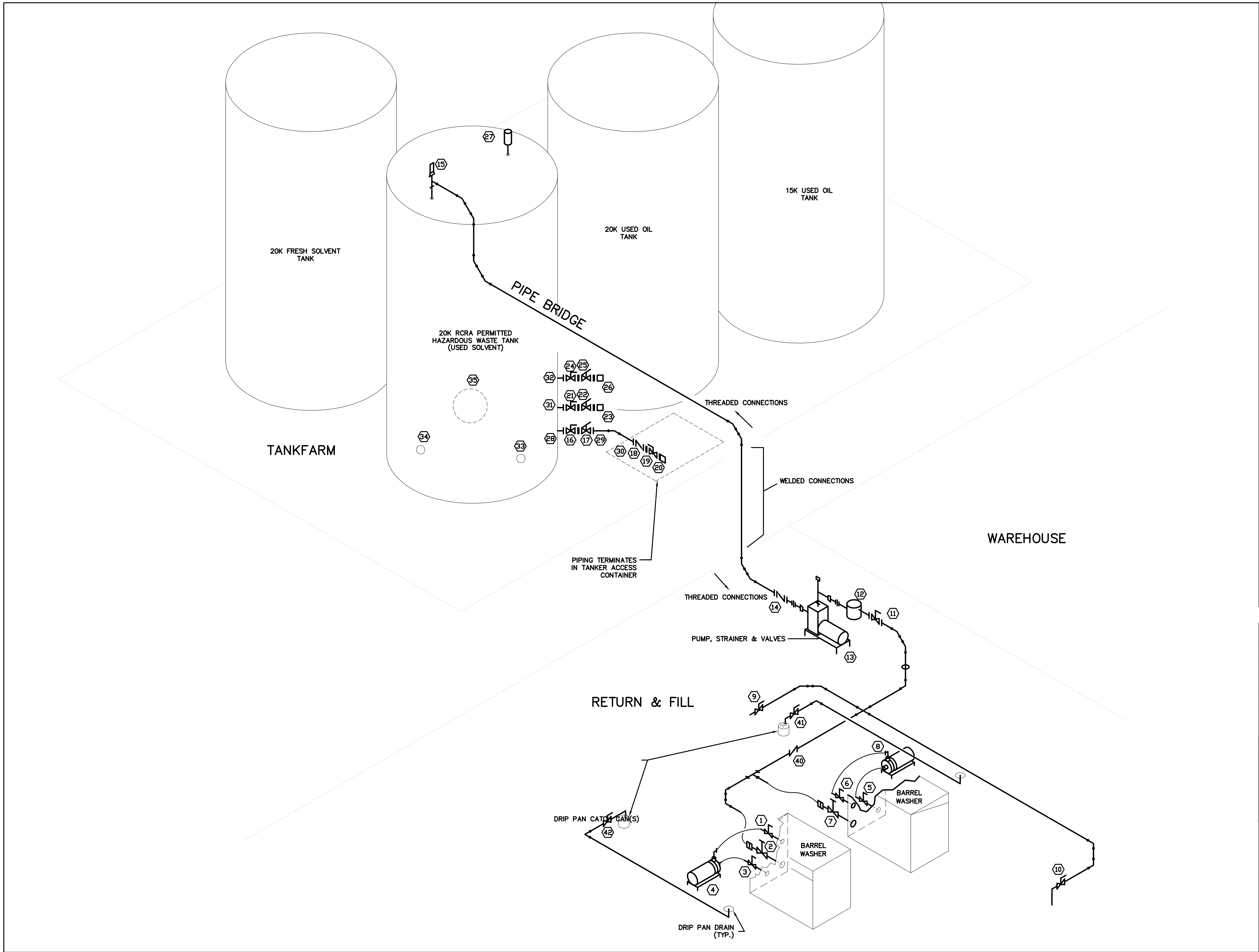
Based on the above information there would not be any tangible environmental benefit to adding pollution controls to the drum washer/wet dumpster unit. In addition, developing pollution controls would be very difficult since processing containers of used parts washer solvent requires that the lids to the unit remain open during active operation and are located over an open grated working surface provided with a concrete secondary containment system. It should be noted that the drum washer/wet dumpster unit is drained and closed during those times of the operating day when no trucks are delivering used parts washer solvent to be processed. Also, at the end of each operating day, which typically consists of 2.5 – 4 hours of processing, the drum washer/wet dumpster units are emptied, cleaned, closed and prepared for the next day’s operation. These procedures provide an additional amount of risk reduction.

Recording and Reporting

For demonstration of compliance with Subpart CC, as stipulated in 40 CFR 264.1089, Safety-Kleen Medley branch maintains the required information described in this permit application.

- Documentation of Waste Determination is provided in Part II Waste Analysis Plan of this permit application.
- Documentation of Container design and closure is provided in Part II.B of this permit application.
- Documentation of Container and Tank inspections are provided in Part II.B and Part II.C of this permit application.

Records for required inspections are maintained at the facility for a minimum of three (3) years. Any written reports, as required by 40 CFR 264.1090, particularly 40 CFR 264.1090(b), will be prepared and submitted to the Regional Administrator as applicable within 15-calendar days of the time Safety-Kleen becomes aware of any occurrence of non-compliance under this standard.



EQUIPMENT SCHEDULE

MARK	DESCRIPTION
①	1 1/4" BALL VALVE (BARREL WASHER)
②	2" GATE VALVE
③	1 1/2" BALL VALVE (BARREL WASHER)
④	RECIRCULATING PUMP (BARREL WASHER)
⑤	1 1/2" BALL VALVE (BARREL WASHER)
⑥	1 1/4" BALL VALVE (BARREL WASHER)
⑦	2" GATE VALVE
⑧	RECIRCULATING PUMP (BARREL WASHER)
⑨	2" FLANGED BALL VALVE
⑩	2" FLANGED BALL VALVE
⑪	2" FLANGED BALL VALVE
⑫	STRAINER ASSY.
⑬	USED SOLVENT PUMP
⑭	2" FLANGED CHECK VALVE
⑮	3/8" AUTOMATIC VACUM BREAKER
⑯	3" FLANGED BALL VALVE
⑰	3" FLANGED EXTERNAL EMERGENCY GATE VALVE
⑱	3" FLANGED CHECK VALVE
⑲	3" FLANGED BALL VALVE
⑳	3" FLANGED CAM LOCK
㉑	3" FLANGED BALL VALVE
㉒	3" FLANGED EXTERNAL EMERGENCY GATE VALVE
㉓	3" FLANGED CAM LOCK
㉔	3" FLANGED BALL VALVE
㉕	3" FLANGED EXTERNAL EMERGENCY GATE VALVE
㉖	3" FLANGED CAM LOCK
㉗	3" PRESSURE VACUM BREAKER
㉘	3" TANK FLANGE ADJACENT TO "16"
㉙	3" PIPE FLANGE ADJACENT TO "17"
㉚	3" PIPE FLANGE ADJACENT TO "18"
㉛	3" TANK FLANGE ADJACENT TO "21"
㉜	3" TANK FLANGE ADJACENT TO "24"
㉝	3" BLIND TANK FLANGE
㉞	3" BLIND TANK FLANGE
㉟	3' MANWAY
㊱	NOT USED
㊲	NOT USED
㊳	NOT USED
㊴	NOT USED
㊵	2" CHECK VALVE
㊶	1" BALL VALVE
㊷	1" BALL VALVE

NO.	DESCRIPTION	BY	CHK	APPR	DATE
A	ISSUED FOR PERMIT	JEK	JZ	JZ	092022

REVISIONS

PROPRIETARY STATEMENT

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TITLE

FIGURE 11.1-1
ENVIRONMENTAL PIPING SCHEMATIC – EXISTING

SAFETY-KLEEN SYSTEMS, INC.
42 LONGWATER DRIVE, NORWELL, MA. 02061
PHONE: 781-792-5000

SCALE	BY	CHKD	APPROVED	OPERATIONS	DATE
NONE	JEK	JZ	JZ	JZ	9/20/22

SERVICE CENTER LOCATION	SC-DWG NUMBER	REV. NO.
MEDLEY, FL.	7096-5600-300	A

Figure 11.1-2
Safety-Kleen Medley, Florida
Hazardous Waste Solvent Tank/Piping Equipment Subpart BB Tags

TAG NUMBER	EQUIPMENT DESCRIPTION
1	1 ¼” Ball Valve-drum washer
2	2” Gate Valve
3	1’ ½” Ball Valve-drum washer
4	Waste Mineral Spirits Rec. Pump
5	1 ½” Ball Valve-drum washer
6	1’ ¼” Ball Valve-drum washer
7	2” Gate Valve
8	Waste Mineral Spirits Rec. Pump
9	2” Flanged Ball Valve
10	2” Flanged Ball Valve
11	2” Flanged Ball Valve
12	Strainer Assy.
13	Used Solvent Pump
14	2” Flanged Check Valve
15	3/8” Vacuum Breaker
16	3” Flanged Ball Valve
17	3” Fl. External Emerg. Gate Valve
18	3” Flanged Check Valve
19	3” Flanged Ball Valve
20	3” Flanged Cam Lock
21	3” Flanged Ball Valve
22	3” Fl. Extern. Emer. Gate Valve
23	3” Flanged Cam Lock
24	3” Flanged Ball Valve
25	3” Fl. Extern. Emerg. Gate Valve
26	3” Flanged Cam Lock
27	3” Pressure Vacuum Breaker
28	3” Tank Flange
29	3” Pipe Flange
30	3” Pipe Flange
31	3” Tank Flange
32	3” Tank Flange
33	3” Blind Tank Flange
34	3” Blind Tank Flange
35	3” Long Bolt Manway
36	No longer in use
37	No longer in use
38	No longer in use
39	No Longer in use
40	2” Check Valve
41	1” Ball Valve
42	1” Ball Valve

Figure 11.1-3

Leak Detection and Repair Record (Example)

Safety-Kleen Medley, Florida

Equipment ID #. ______________________________ ______________________________

Description: ______________________________ **Other:** ______________________________

Date **Inspectors Signature**

How was potential or actual leak detected?

____

____

Describe the potential or actual leak:

____

____

(1.) Instrument Monitoring within 5 days

Results: __________________________

(2.) Repair Attempt

Method: __________________________

Results: __________________________

(3.) Repair Attempt

Method: __________________________

Results: __________________________

(4.) Date of Successful Repair (Must be completed within 15 days)

Method: __________________________

Results: __________________________

Follow up Monthly Valve Monitoring

(5.) Results: __________________________

(6.) Results: __________________________

Monitoring Summary (***Reference Number – See above)***

	(1)	(2)	(3)	(4)	(5)	(6)
Instrument # / Operator	____	____	____	____	____	____
Calibration	____	____	____	____	____	____
Background Reading	____	____	____	____	____	____
Reading at Equipment	____	____	____	____	____	____
Leak Detected	____	____	____	____	____	____

Attach any documentation prepared by consultant(s).

CleanHarbors

CO Tank Sys BB Equipment

Form Code: 42

Compliance Header	
Inspector Name	
Area of Inspection	
Inspection Date and Time	
CO Tank System BB Equipment Instruction	
Note condition of inspection items. Inspect all tagged and non-tagged points per area plan or system drawing specification. All unsatisfactory findings must be explained. Include any repairs, changes or corrective actions.	
CO Tank System BB Equipment Inspection Items	
Inspect all tagged and non-tagged tank system identified BB equipment points per area plan - Check for evidence of failure. (e.g., all inclusive review of all equipment pumps, valves, flanges, connections, unions, couplings or caps for potential leaks, active leaks, sticking, wear, does not operate smoothly, other).	
Each open-ended valve or line is 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. [264.1056/ 265.1056]	
Pieces of equipment found to be leaking, usually by visual means, are repaired within 15 calendar days and the first attempt to repair is made within 5 calendar days. [264.1058(c)/ 265.1058(c)]	
When a leak is detected, a weatherproof identification tag is attached to the leaking equipment with ID # and the date leak was detected. The identification may be removed after repair. [264.1064(c)/ 265.1064(c)]	
The liquids in use are heavy liquids. It should be assumed that all hazardous liquids managed in storage tanks contain between 80% and 100% organics.	
Subpart BB equipment tags that are "Difficult to Monitor" will be inspected on an annual basis (i.e. those that are located on top of tanks	
Compliance Footer	
Inspector Signature	

Attach Photo	
Inspection Overall Assessment	

TABLE 11.2-1
SUMMARY OF TANK MANAGEMENT UNITS SUBJECTED TO SUBPART CC
SAFETY-KLEEN SYSTEMS, INC. MEDLEY, FL
EPA ID NUMBER: FLD 984 171 694

Hazardous Waste Management Unit	**Location of Hazardous Waste Management Unit**	**EPA Hazardous Waste Codes Managed**	**Brief Waste Description**	**Average Volatile Organic Concentration of Hazardous Waste**	**Subpart CC Status**	**Control Option (See Table 11.2-3)**
RCRA- Permitted Hazardous Waste Tank (Used Solvent) (20,000 g)	See Figure 2.1-1	D001, and codes listed in Note 1 below	Waste Parts Washer Solvent (Petroleum Naphtha)	> 500	Level 1 Control	1

NOTE: D018, D039, D040

TABLE 11.2-2
SUMMARY OF CONTAINER MANAGEMENT UNITS SUBJECTED TO SUBPART CC
SAFETY-KLEEN SYSTEMS, INC. MEDLEY, FL
EPA ID NUMBER: FLD 984 171 694

Hazardous Waste Management Unit	**Location of Hazardous Waste Unit**	**EPA Hazardous Waste Codes Managed**	**Brief Waste Description**	**Average Volatile Organic Concentration of Hazardous Waste**	**Container Type**	**Subpart CC Status**	**Control Option (See Table 11.2-3)**
Container Storage Area	See Figure 2.1-1	D001, F001, F002, F003, F005 and codes listed in Note 1 below	Waste Parts Washer Solvent (Petroleum Naphtha), Dry Cleaner Wastes	> 500	Type A	Container Level 1 Controls per 264.1086(c)	11
Return and Fill Area	See Figure 2.1-1	D001 and codes listed in Note below	Waste Parts Washer Solvent (Petroleum Naphtha)	> 500	Type A	Container Level 1 Controls per 264.1086(c)	11

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) 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(l). 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(l)(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(b)(1) & (c)(1)(i)]
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 surpressing 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 surpressing 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)(1)(i)]

Table 11.2-3

Subpart CC Control Options

15. These containers have a design capacity greater than 0.46 m^3, 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 264.1088(b)(1)(iii) & (d)(1)(ii)]
16. These containers have a design capacity greater than 0.46 m^3, 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 264.1088(b)(1)(ii) & (c)(1)(i)]
17. These containers have a design capacity greater than 0.1 m^3 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 264.1088(b)(2) & (e)(1)(i)]
18. These containers have a design capacity greater than 0.1 m^3 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(a)(2)(i) & (ii).). The closed-vent system and control devices shall be inspected and monitored as specified in 40 CFR 264.1087. [40 CFR 264.1088(b)(2) & (e)(1)(ii)]

Appendix A
Site Photographs

Safety-Kleen Medley, FL

Front Building Facing East

9/6/22

SWMU-1 Container Storage Area
Inside Service Center Facing South

SK Medley 9/6/22

SWMU-2 Permitted Tank Storage
Unit (Secondary Containment)
Facing West

SK Medley 9/6/22

RCRA Permitted Hazardous Waste Tank (Used Solvent) Facing North

SK Medley 9/6/22

SWMU-3 Return/Fill Shelter
Facing West

SK Medley 9/6/22

SWMU-3 Return/Fill Shelter

Facing East

SK Medley 9/6/22

SWMU-4 Mercury Lamps Storage Area (Inside SWMU-1) Facing Southeast

SK Medley 9/6/22

SWMU-6 Used Oil Filter Storage Area
(Inside SWMU-3) Facing North
SK Medley 9/6/22

SWMU-7 Transfer Waste Storage Area
(Inside SWMU-1) Facing South

SK Medley 9/6/22

SWMU-7 Transfer Waste Storage Area (Inside SWMU-1) Facing East

SK Medley 9/6/22

SWMU-8 Municipal Dumpsters

Facing West

SK Medley 9/6/22

SWMU-9 Containerized Waste Loading-Unloading Dock Facing Northwest

SK Medley 9/6/22

SWMU-10 Satellite Container Area
(Inside SWMU-3) Facing South

SK Medley 9/6/22

SWMU-12 French Drain

Facing South

SK Medley 9/6/22

SWMU-13 Oily Water Frac Tank

Facing East

SK Medley 9/6/22

Appendix B
Chemical Analysis Reports
Annual Re-Characterization

2022 AR Codes and SKDOTS - National

Waste Stream	Description Subcategory	Changes from 2021 to 2022	2022 National Waste Codes	2022 NATIONAL Profile
Branch Contaminated Debris (Solid would not carry D001)	N/A	No Change	F002, F003, F005, D001, 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	Refer to CH Outbound
Immersion Cleaner	N/A	**Remove D006, D018, D027**	D039, D040	**153634**
Parts Washer Solvent 105 Virgin	under 100 lbs	No Change	D001, D018, D039, D040	150045
	over 100 lbs (RQ)			150085
	Non-RQ DF container (no DOT SP)			157045
Bulk MS Solvent	N/A	No Change	D001, D018, D039, D040	Refer to CH Outbound
Parts Washer Solvent Sludge/Dumpster Mud	N/A	No Change	D001, D018, D039, D040	Refer to CH Outbound
Parts Washer Solvent Tank Bottoms (bulk)	N/A	No Change	D001, D018, D039, D040	Refer to CH Outbound
Premium (150) / PRF / PDF Mil Spec Solvent	N/A	No Change	D039	150055
	DF container (no DOT SP)			157055
Paint Gun Cleaner	under 100 lbs	No Change	F003, F005, D001, D018, D035, D039, D040	150380
	over 100 lbs (RQ)			150425
Paint Gun Cleaner (Premium Thinner)	under 100 lbs	No Change	F003, F005, D001, D018, D035, D039, D040	158380
	over 100 lbs (RQ)			158381
Clear Choice Paint Gun Cleaner	under 100 lbs	No Change	F003, D001, D018, D035, D039, D040	150426
	over 100 lbs (RQ)			150427
Paint Waste Other	Any size container	No Change	F003, F005, D001, D018, D035, D039, D040	150375
Universal Paint Gun Cleaner	N/A	No Change	D001, D018, D035, D039, D040	403901294
Dry Cleaner (Perc) Bottoms	N/A	**Remove D029**	F002, D007, D039, D040	**150589**
Dry Cleaner (Perc) Filters	N/A	**Remove D029**	F002, D007, D039, D040	**150621**
Dry Cleaner (Perc) Separator Water	N/A	**Remove D029**	F002, D039, D040	**150520**
Dry Cleaning Naphtha Bottoms	N/A	No Change	D001, D007, D039, D040	150422
Dry Cleaning Naphtha Filters	N/A	No Change	D001, D007, D039, D040	150424
Dry Cleaning Naphtha Separator Water	N/A	No Change	D001, D039, D040	150423

Appendix C
Containment Calculations

Professional Engineers Certification Report
of
Construction of the Safety-Kleen Medley, Florida
Branch Service Center

By W. O. Heyn P.E.
Florida Certificate
No. 45516

CERTIFICATION

Florida Dept. of Environmental Regulation

Facility Name SAFETY-KLEEN CORP., MEDLEY, FLORIDA
FDER Site Code FLD984167791
Construction Permit Requiring Certification HC-13-175466
Permit Issuance Date March 1, 1991

The Hazardous Waste Facilities have been constructed and tested in accordance with the specifications in the Part B construction permit with the exceptions noted in the attached report. Documentation that the construction was in accordance with the permit is contained in the enclosed report.

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system of 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 imprisonment for knowing violations.

Glenn
Signature of Owner/Operator

Glenn R. Casbourne, Vice-President, Engineering
Name and Title

William O. Heyn
Signature of Registered P.E.

William O. Heyn, 45516
Name of Registered P.E. and Florida P.E. No.

7-7-92
Date

(P.E. Seal)

Construction Documentation Report for Construction of Hazardous Waste Facilities at the Safety-Kleen Corp. Branch Service Center Located at 8755 N.W. 95th Street, Medley, Florida

Introduction

Safety-Kleen Corp. constructed an office, warehouse building and tank farm with ancillary equipment in Medley, Florida in accordance with the requirements of the Part B construction permit that was issued by the Florida DER on March 1, 1991 and amended on December 9, 1991 and May 15, 1992 with deviations from the permit indicated in this report. Figure 11A.4(b)-3 indicates Sanford whereas it should be Medley. Also the tank farm as-built is in the "Future" location which is consistent with the rest of the permit.

Regulatory Requirements:

40CFR264.192(a)

The tanks for storage of hazardous waste were constructed in accordance with Underwriters Laboratories Inc., "Standard for Steel Aboveground Tanks for Flammable and Combustible Liquids." The tank shell thickness is 1/4" from 0 to 18 feet, and 3/16" from 18 to 24 feet. The tank bottom is 1/4" thick and the tank top is 3/16" thick steel. The waste ethylene glycol and waste mineral spirits tanks are identical.

All tanks are coated with white acrylic base paint. All pipes and threads are painted to protect them from corrosion. Each tank is protected by a high level alarm which will sound and activate an alarm and a strobe light when the tank level reaches 95% of capacity. The alarm on the waste solvent tank will also deactivate the waste solvent pump at the return and fill. The high level alarm system was changed from a float activated switch to a sonar based tank gauge and high level alarm system called "Level Devil" provided by Electronic Sensors, Inc. of Wichita, Kansas.

All connections to the tanks are equipped with a spring loaded safety valve held in the open position by a fusible link that will melt and allow the valve to close in the event of a fire.

40CFR 264.192(b)

Each tank was inspected after installation for weld breaks, punctures, scrapes of protective coatings, cracks, corrosion and other structural damage or inadequate construction/installation.

All discrepancies found were corrected and the tanks are suitable for use.

40CFR264.192(c) Not applicable

40CFR264.192(d)

The tanks, after installation, were filled over 95% of full with water and observed for 5 hours for leaks. No leaks were observed and the tanks are certified tight. All ancillary equipment was tested in conjunction with the tank tests and certified tight.

40CFR264.192(e)

All ancillary equipment has been properly mounted and installed. All lengths of piping are supported no less than every eight running feet.

40CFR264.192(f) Not applicable

40CFR264.192(g) See Certification Statement

40CFR264.193(a-e)

Tank secondary containment in the form of an open concrete dike vault has been constructed in accordance with prints No. 316301-5002-00 Sheet No. 8 and 316301-5015-00 Sheet No. 9. The floor and dike walls of the tank containment system contain no cracks. The slab has been sloped to drain all liquids that accumulate inside the containment system to a stainless steel sump which can be readily pumped out to a holding tank to remove the accumulated liquids. The sump is located adjacent to the south wall of the vault per Figure II C2-1.

The interior of the dike walls and slab are coated with an epoxy material (Semstone 140) to prevent permeation through the concrete.

40CFR264.193(f)

Some piping inside the dike vault is threaded. Secondary containment for this piping is provided by the vault. All piping outside the concrete dike vault has fully welded connections. The clean solvent pump has been installed inside the concrete dike vault as is the spill container for hookup to tank trucks. Note: Although the permit specified that six tanks would be installed in the tank farm, only 3 tanks have been installed: one dirty mineral spirits tank, one clean mineral spirits tank and one waste glycol tank. The two waste oil tanks and the perchloroethylene tank were not installed but may be at a later date. Also the permit showed the tank truck connections outside the diked area and a change was made to move them inside the diked area. Refer to print No. 316301-2000-00 sheet No. 45.

With reference to Fig. II C.2-1 Tank Farm; The location of the tanks was changed to accommodate the use of one truck connection container. As-built, the used mineral spirits tank is located in the southwest corner of the vault whereas the permit shows it in the southeast corner of the vault. The fresh mineral spirits tank as-built is located in the northwest corner of the vault vs. the northeast location per the permit. The used ethylene glycol tank as-built is located in the south central position of the tank farm vs. the permit location in the northwest position. The tanks were mounted on stainless steel sheets, 13 ft. 8 in. by 13 ft. 8 in. which were bolted to the concrete housekeeping pads.

The dimensions of the vault, as-built, varies from the permit dimensions as follows; length 58 ft. 0 in. vs. 56 ft. 0 in. in the permit, width 40 ft. 0 in. vs. 40 ft. 0 in. in the permit. The height of the dike wall varies from 36-1/4 in. to 38 in. due to the sloped floor of the vault vs. 36 in. in the permit. Three monitoring wells have been installed about 10 ft. from the north, east and west sides of the vault.

Tank Truck Loading Area

The permit application shows an 80 ft. by 25 ft. tank truck loading area constructed of 6 in. thick reinforced concrete sloping 2 inches to a 2 ft. diameter by 2 ft. deep stainless steel sump with no outlet. A change was made to increase the slope to 9 inches to increase the containment capacity of the pad to 2917 gallons. Refer to print No. 316301-5003-00 sheet No. 10. The containment volume of the truck loading area was measured by filling with water. The actual volume measured was 2432 gallons which is significantly less than the design volume.

Tank Farm Shelter

Provisions were made during construction to provide foundations for a proposed tank farm shelter which will be installed at a later date. This proposed shelter will cover the entire tank farm and tank truck loading pad with an overhang of 10 ft. at each end of the tank farm (east and west) and a 2 ft. overhang on the front and rear (south and north) of the tank farm and tank truck loading slab. This shelter will prevent a major portion of rainfall from entering the containment areas. No side walls will be installed so that access for fire fighting is not impaired. Refer to print Sheet No. ST-1 Tank Farm Canopy.

Warehouse Containment Area

The Warehouse containment area was constructed in accordance with print 316301-7005-00 Sheet No. 26. The sloped floor containment area is free of cracks and has been sealed with an epoxy sealant (Semstone 245) that is chemically resistant to the products to be stored in the warehouse. The sloped floors of the warehouse drain into a 12 ft. x 2 ft. stainless steel sump that has no outlet. Any spills collected in the sump will be pumped out and properly disposed. The containment volume of the warehouse was measured by filling with water. The actual volumetric measure was 2996 gallons which is equal to or greater than the design volume of 2940 gallons.

With reference to Fig. II B.1-1 Container Storage Location; The rollup door and personnel door in the northeast location in the east wall of the warehouse were moved to a southeast location in the east wall. A personnel door was added to the north wall. The security fence in the warehouse was relocated and two 6 ft. wide by 8 ft. high sliding gates were added to the fence.

The truck loading dock will contain one dock leveler and provisions for a second leveler and is covered by a metal roof. Any spills that occur on the loading dock will be collected in a 24 ft. x 2 ft. stainless steel trench located at the foot of the dock. This trench, covered by a steel grating, has no outlet and any spills must be pumped out by use of a portable pump.

Rainwater which falls on the outside truck loading pad is collected in a sump which drains into the stormwater system. A small ~~brem~~ CURB separates this sump from the stainless steel spill collecting sump at the foot of the dock to prevent rainwater from entering the stainless steel sump.

Return and Fill

The return and fill containment is made up of concrete floors sloped to two 2 ft. diameter by 2 ft. deep stainless steel sumps that have no outlets. The concrete containment areas are sealed by an epoxy sealant (Semstone 140) that is compatible with and resistant to the solvents that will be handled in the facility. The steel loading dock, sized to handle 8 trucks, is covered by heavy duty grating that can support all anticipated loads including forklifts. Openings in the gratings contain two drum washers for dumping and washing solvent drums. The dock is equipped with dock plates to provide safe access to the trucks. Hose trees are located at the edge of the dock to provide valves and hose mountings for filling drums.

Two as-built, wet dumpster/barrel washers were installed adjacent to each other near the positions indicated in Fig. II C.7-3 Return and Fill Shelter.

The containment volume of the return and fill area was measured by filling with water that was used in the hydrostatic test of the tanks. The actual volume measured was 3693 gallons which compares favorably with the design volume of 3680 gallons. After the test the water was pumped into the storm sewer.

The permit application showed a single 20 ft. by 2 ft. rectangular stainless steel sump in the return and fill. A change was made to two round sumps with changes in the floor slopes to accommodate them and to achieve the same overall containment volume. Refer to print no. 316301-7004-00 sheet No. 24.

Fire Suppression System

The fire sprinkler system for the warehouse, Return and Fill area and the office area has been designed and installed by Kannapolis Fire Sprinklers. The piping system with sprinkler heads for the warehouse and Return and Fill areas have been completed and are operational. The available water flow has been tested by the City of Medley. The available flow has been found to be inadequate as required by NFPA for a water system. Flow *is* adequate for a foam system which has been installed. The foam bladder tank has been installed in the southeast corner of the warehouse with the required controls. The foam sprinkler system has been tested by the installer and approved by the Medley Fire Department prior to issuance of the Certificate of Occupancy.

Other Emergency Equipment

Fire Extinguishers - The warehouse and Return and Fill are equipped with eight 20 lb. ABC fire extinguishers wall bracket mounted and labeled in accordance with the approved design.

Eye Washer/Showers - one eyewash/shower is located on the west wall of the warehouse adjacent to the doorway to the Return and Fill. A second eyewash/shower is located on the west side of the steel loading dock in the Return and Fill area. A third eyewash/shower is located adjacent to the tank farm.

Exit Signs - All doorways opening to the outside are identified by a lighted "Exit" sign.

Personal Protective Equipment - All employees working in the Warehouse and the Return and Fill will be required to wear safety glasses with side shields, hard hats and safety shoes.

Branch Security

The working areas of the Medley facility are enclosed by a 6 foot high chain link fence with a one foot extension containing 3 strands of barbed wire. Access and exit is through two 30 ft. sliding gates which are motor operated. Entrance is achieved by a keypunch pad located adjacent to the entrance drive. The gate opening can also be achieved by a push button located in the office. Gate closing is controlled by a timer and an electric eye. All gates are required to be kept closed at all times except for passage of vehicles.

Access into the office is controlled by a door equipped with an electrically operated lock activated from inside the office. Two doors exiting from the office area will be equipped with an emergency bar on the inside. These doors can only be opened from inside the building.

Signs designating "no smoking", "fire extinguisher", etc. have been mounted in locations shown on drawing No. 316301-9000-00 Sheet No. 28.

Site Storm Water Control

The City of Medley has no stormwater drainage system available for this site. In order to provide for stormwater control and disposal, the areas to be paved have been equipped with 6 catch basins each of which are connected to an underground collection system. The collection system consists of 15 in. diameter perforated corrugated metal pipes laid horizontally 3 ft. underground in 15 ft. deep by 36 in. wide trenches filled with pervious material. The capacity of these structures is adequate to store a rainfall of 6.7 inches over a 1 hour period. The water collected in the structure will drain by seepage into the surrounding soil.

Electrical

All electrically operated equipment was tested with a temporary electrical supply. Florida Power and Light will hook up permanent power after the Certificate of Occupancy is issued by the City of Medley.

Strategy for measuring volume of Containment Areas and Testing Tanks and Piping Systems

Since the tanks are to be tested by filling with water and observing for leaks, 20,000 gallons of water will be available for filling the various containment systems, i.e: Return and Fill (3680 gal. reqd.) and the warehouse (2940 gal. reqd.) and the tank truck loading/unloading pad (2917 gal. reqd.)

One option to determine volumes is to measure the physical dimensions of each containment area and calculate the actual volume each would contain.

A second option would be to fill each containment volume with water from the tank test and measure the amount of water used by means of the tank gauge after the tanks are tested.

The high level alarms for the tanks should be operational when the tanks are filled to provide a test of the high level alarm system for each tank.

At the completion of the tests the water will be drained into the stormwater drainage system onsite.

Procedure

1. Fill used Mineral Spirits tank with water from the domestic supply until the high level alarm sounds. Record the number of gallons indicated by the tank gauge. Continue to fill an additional 500 gal. taking care *not* to overfill the tank. Observe the tank system for 5 hours for leaks. Note any leakage that must be repaired before placing tank in service.

2. Hook up an auxiliary pump to the drain line of the used Mineral Spirits tank and connect the discharge to the fill line of the Used Glycol Tank. Transfer the water to the Used Glycol tank. Note: The residual water in the bottom of the used Mineral Spirits tank is not available for this part of the test. Add additional water to the Used Ethylene Glycol of 500 gallons over the point at which the high level alarm sounds. Record the tank gauge reading when the high level alarm sounds. After the tank is filled observe the tank system for 5 hours and note any points of leakage. Repair all leaks before terminating the tests on both tanks.

3. Fill out certification forms indicating tanks and ancillary piping are tight.

4. Drain water from the filled tank into the truck loading area. Note gauge readings on the tank gauge before filling and at the point that the loading area is completely filled. Record gallons. Pump the water from the truck loading area into the storm drain.

5. Drain water from the filled tank into the warehouse containment area. Note tank gauge readings before and at the point the containment area is completely filled. Record gallons. Pump the water from the containment area into the storm drain.

6. Repeat the above procedure for the return and fill containment area.

7. Fill out certification forms for all 3 areas.

8. Drain remaining water from the filled tank into the storm drain. Note: each tank tested will contain several hundred gallons of water in the bottom of the dish that cannot be pumped out through the discharge ports. To remove this residual water, remove one 4" plug at the bottom of the tank and siphon or pump the residual water from the bottom of the dish. After draining replace plug using approved thread sealer.

W. O. Heyn
2010 Imperial G.C. Boulevard
Naples, FL 33942
813-566-2326

TEST CERTIFICATION FORM

Date 6-6-92

Project SAFETY-KLEEN CORP

Location MEDLEY, FLORIDA

System TANK #1 WASTE MINERAL SPIRITS

Type of Test [✓ Hydrostatic]

Air

Other

Test Pressure ATMOSPHERIC

Duration of Test 5 HOURS

Test Witnessed By

Test Supervised By W. O. HEYN

RESULTS - TANK AND ANCILLARY EQUIPMENT TIGHT

By: W O Heyn

Title: PE FLORIDA CERT. 45516

Date: 6-6-92

W. O. Heyn
2010 Imperial G.C. Boulevard
Naples, FL 33942
813-566-2326

TEST CERTIFICATION FORM

Date 6-6-92

Project SAFETY-KLEEN CORP.

Location MEDLEY, FLORIDA

System TANK #3 WASTE ETHYLENE GLYCOL

Type of Test [✓ Hydrostatic]

Air

Other

Test Pressure ATMOSPHERIC

Duration of Test 5 HOURS

Test Witnessed By Archie Noice

Test Supervised By W. O. HEYN

RESULTS - TANK AND ANCILLARY EQUIPMENT TIGHT

By: W Heyn

Title: P.E. FLORIDA CERT 45516

Date: 6-6-92

II.B.1-1
Container Storage Location
Safety-Kleen Corp. Facility
Medley, Florida

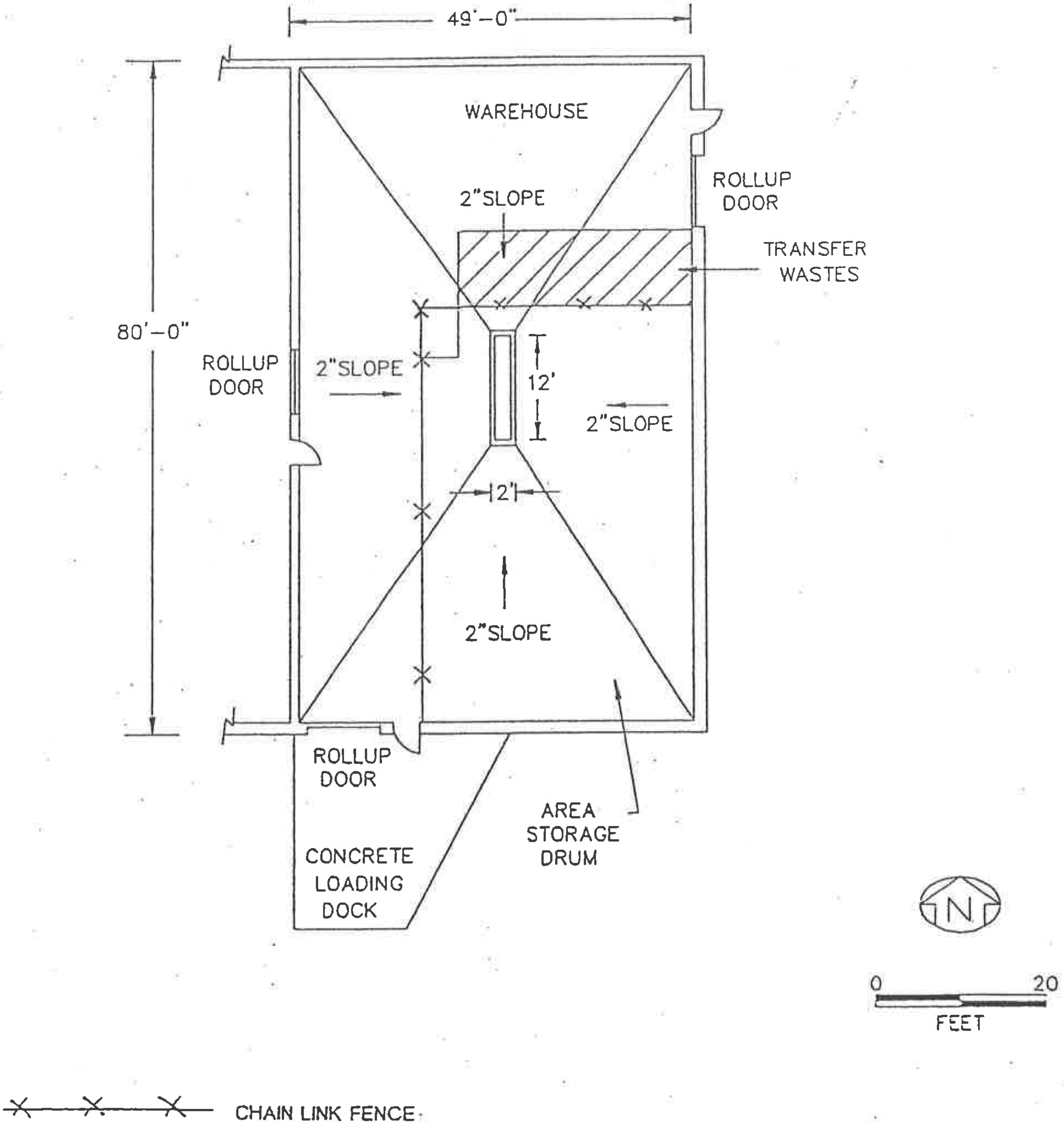


Figure II. C.7-3
Return/Fill Shelter
Safety-Kleen Corp. Facility
Medley, Florida

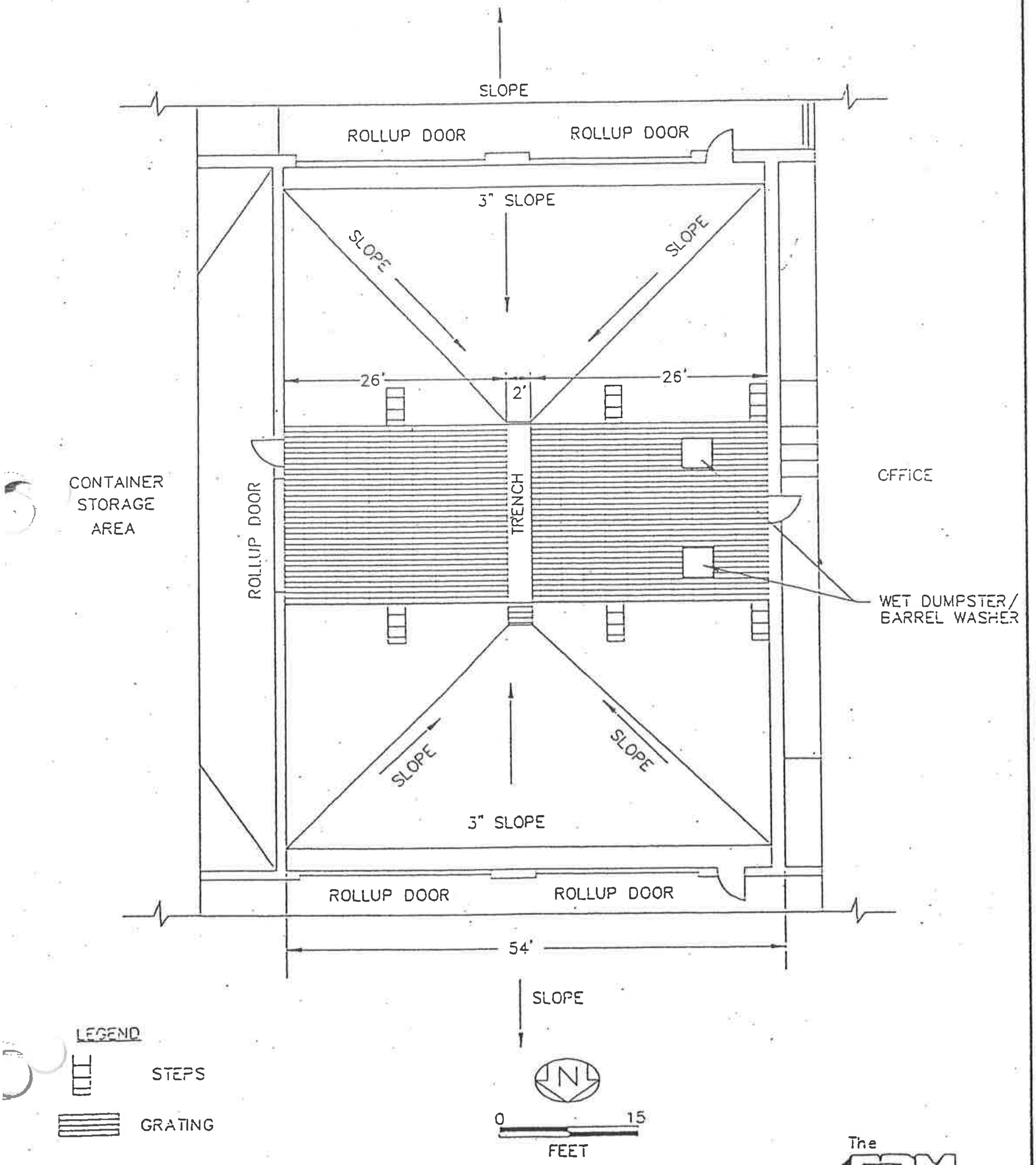
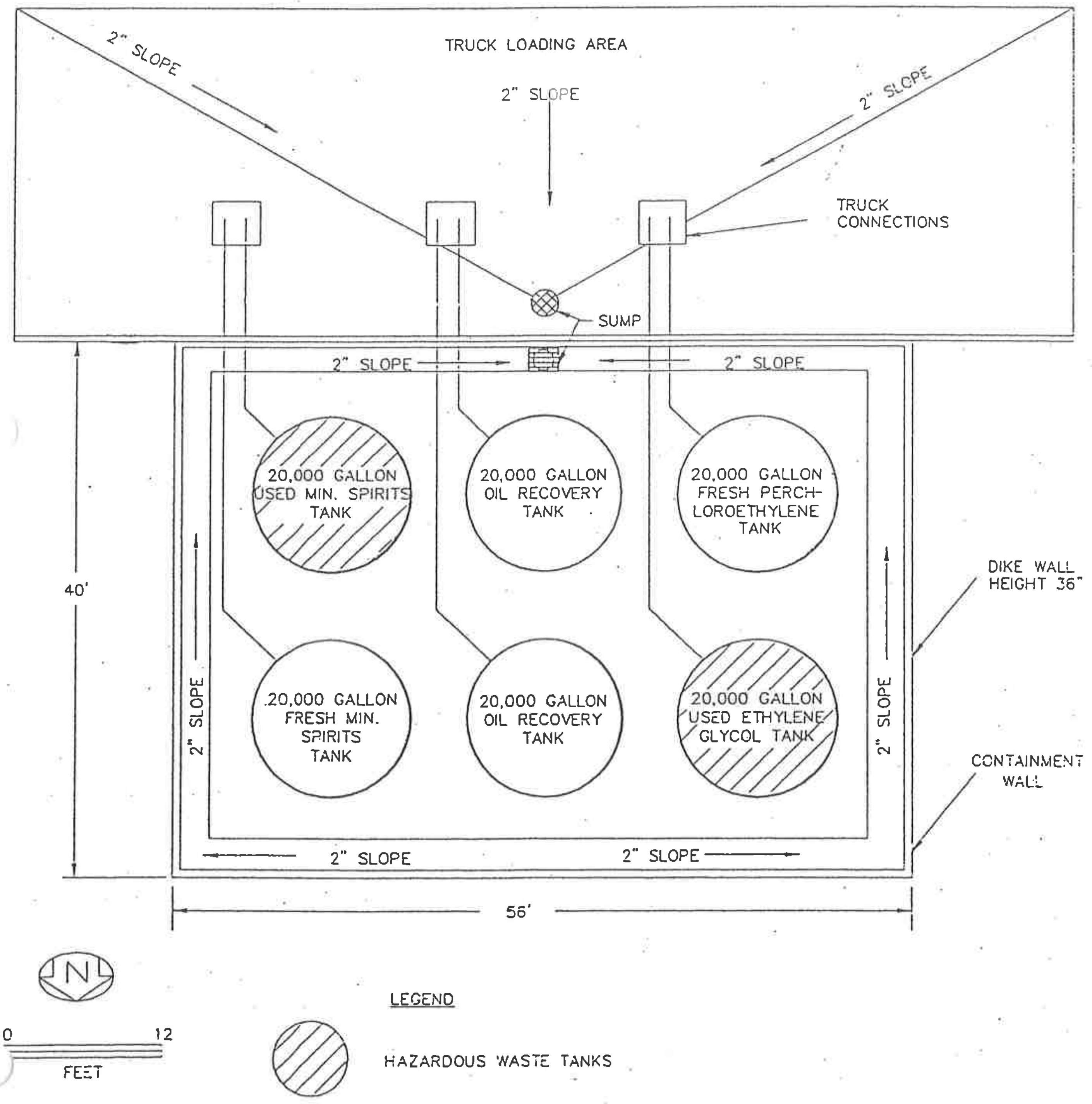
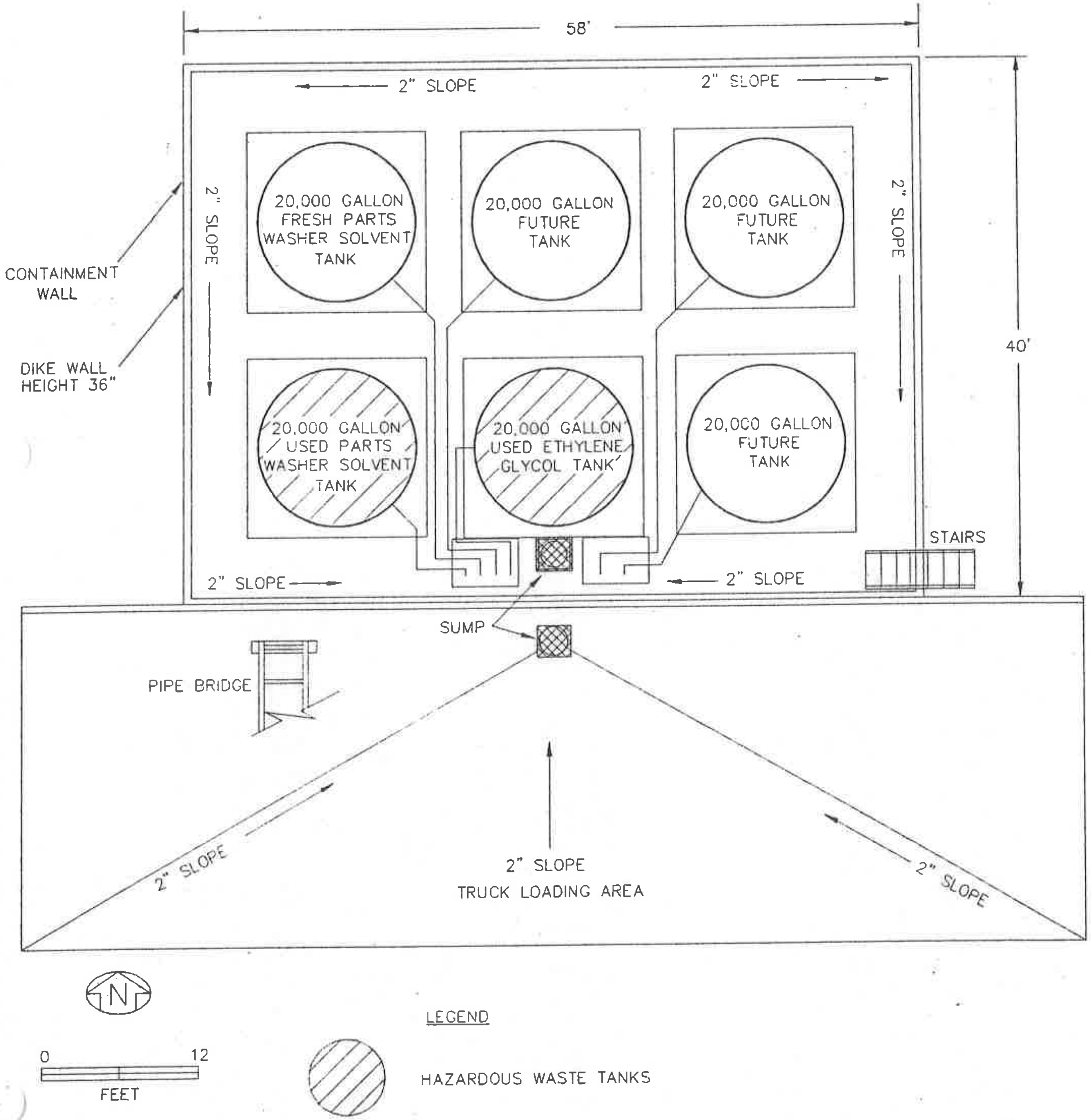


Figure II.C.2-1
Tank Farm
Safety-Kleen Corp. Facility
Medley, Florida



NOTE: ENTIRE AREA IS CONCRETE

Figure II.C.7-1
Tank Farm
Safety-Kleen Corp. Facility
Medley, Florida



NOTE: ENTIRE AREA IS CONCRETE

REVISED 03/08/93

The ERM Group ®

FIGURE II.C.7-2

ERM-South, Inc.
Environmental Resources Management

Project SK - Hasler **W.O. No.** 13113.21 **Sheet** 1 **of** 2
Subject Available Storage Capacity **By** JDS **Date** 7-16-92
Chkd by VH **Date** 7/16/92

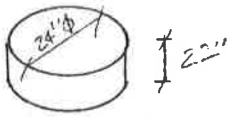
TANK FARM (Figure II. C.7-1):

$$\text{Total Vol} = \text{Vol}_{\text{CONT.}} + \text{Vol}_{\text{SUMP}} - \text{Vol}_{\text{TANK}} - \text{Vol}_{\text{PAD}} - \text{Vol}_{\text{RAINFALL}}$$

1. Containment Area:

$$V_c = (58' - 16'')(40' - 16'')\left(\frac{36+38}{2}''\right)$$
$$= (56.67')(38.67')(3.08')$$
$$= 6749.60 \text{ ft}^3 (7.48 \text{ gal/ft}^3)$$
$$= 50,487.0 \text{ gal}$$

2. Sump (qty = 1):



Circular Sump

$$V_s = \left(\pi \frac{d^2}{4}\right)(h)$$
$$= \pi \frac{(2)^2}{4}\left(\frac{22}{12}''\right) = 5.76 \text{ ft}^3$$
$$= 5.76 \text{ ft}^3 (7.48 \text{ gal/ft}^3)$$
$$= 43.1 \text{ gal}$$

FIGURE II.C.7-2 (CONT.)

ERM-South, Inc.
Environmental Resources Management

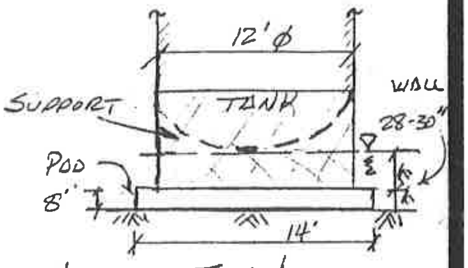
Project SK - Medlo. **W.O. No.** 13112.21 **Sheet** 2 **of** 2
Subject Available Storage Capacity **By** DS **Date** 7-16-92
TANK FARM **Chkd by** VH **Date** 7/16/92

3. Tank (Qty = 6, w/ 1 ruptured & 5 intact)

(a) $V_T = 5\left(\pi \frac{(12)^2}{4}\right)\left(\frac{28+30''}{2(12)}\right)$

$= 1366.59\ ft^3 (7.48\ gal/ft^3)$

$= 10,222.1\ gal$



VERTICAL TANK & SUPPORT

(b) $V_P = 6(14)(14)(8''/12)$

$= 784\ ft^3 (7.48\ gal/ft^3) = 5864.3\ gal$

4. Rainfall:

Based on 25 yr - 24 Hr rainfall of 10 inches

$V_R = (\text{Containment Area})(\text{Rainfall})$

$= (56.67' \times 38.67')(10/12)$

$= 1826.2\ ft^3 (7.48\ gal/ft^3) = 13,659.9\ gal$

Total Available Storage Vol. $= V_C + V_S - V_T - V_P - V_R$

$Vol = (50,487.0 + 43.1 - 10,222.1 - 5864.3 - 13,659.9)\ gal$

$Vol = 20,783.8\ gal$

∴ Total Available Storage volume (20,783.8 gal) exceeds single tank volume (20,000 gal).

Appendix D
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 fittings.
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 m^3 (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.

Procures:

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 not 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.
  - 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.

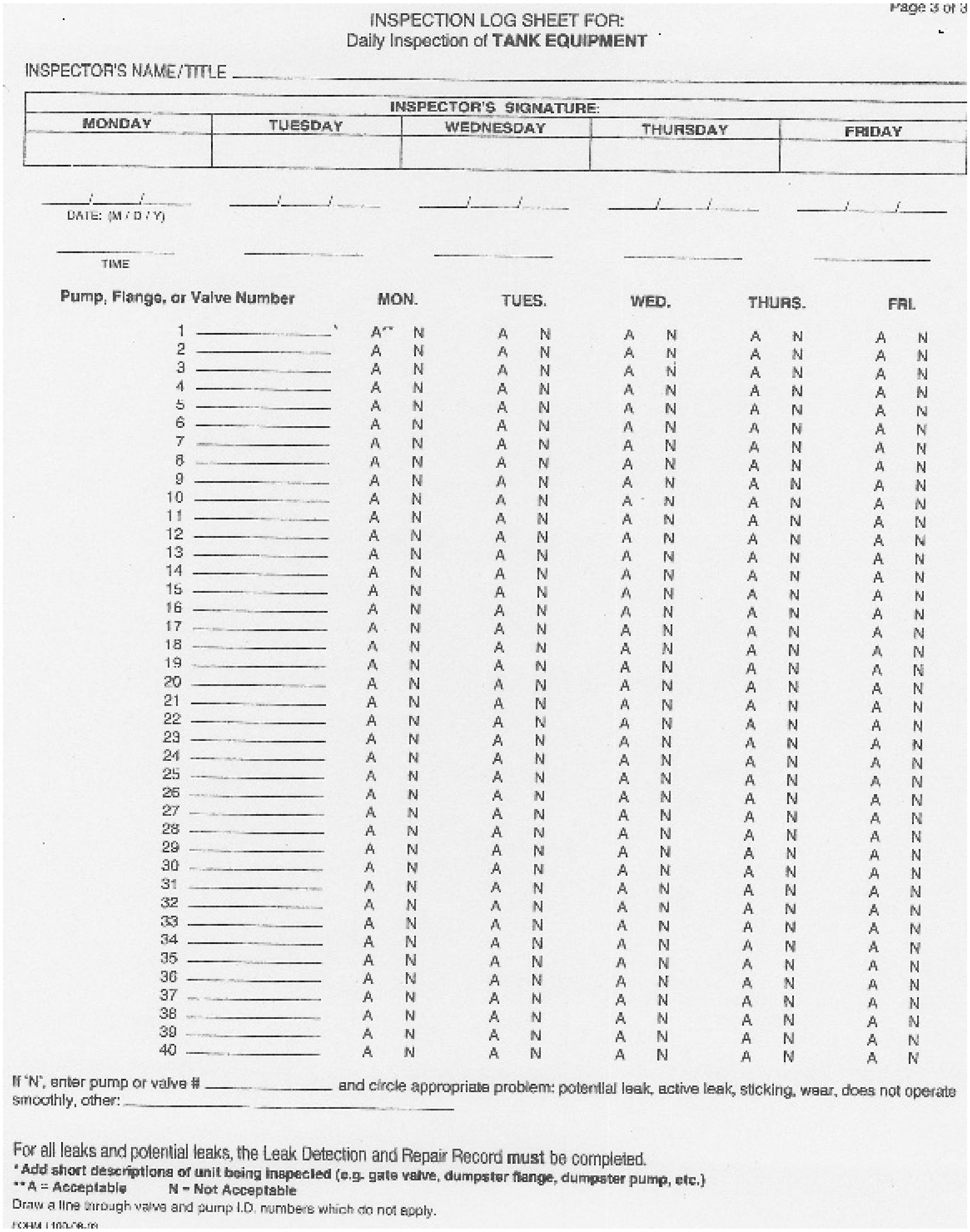
- Annual inspections must be conducted on all tanks' covers and all tank openings, such as manhole covers, pressure relief devices, conservation vents and long bolted manways.

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

INSPECTOR'S LOG SHEET FOR:
Daily Inspection of **TANK EQUIPMENT**

INSPECTOR'S NAME/TITLE ____________________

INSPECTOR'S SIGNATURE:				
MONDAY	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**

___/___/___ DATE: (M / D / Y)	___/___/___	___/___/___	___/___/___	___/___/___
______ TIME	______	______	______	______

Pump, Flange, or Valve Number	**MON.**	**TUES.**	**WED.**	**THURS.**	**FRI.**
1 ________*	A** N	A N	A N	A N	A N
2 ________	A N	A N	A N	A N	A N
3 ________	A N	A N	A N	A N	A N
4 ________	A N	A N	A N	A N	A N
5 ________	A N	A N	A N	A N	A N
6 ________	A N	A N	A N	A N	A N
7 ________	A N	A N	A N	A N	A N
8 ________	A N	A N	A N	A N	A N
9 ________	A N	A N	A N	A N	A N
10 ________	A N	A N	A N	A N	A N
11 ________	A N	A N	A N	A N	A N
12 ________	A N	A N	A N	A N	A N
13 ________	A N	A N	A N	A N	A N
14 ________	A N	A N	A N	A N	A N
15 ________	A N	A N	A N	A N	A N
16 ________	A N	A N	A N	A N	A N
17 ________	A N	A N	A N	A N	A N
18 ________	A N	A N	A N	A N	A N
19 ________	A N	A N	A N	A N	A N
20 ________	A N	A N	A N	A N	A N
21 ________	A N	A N	A N	A N	A N
22 ________	A N	A N	A N	A N	A N
23 ________	A N	A N	A N	A N	A N
24 ________	A N	A N	A N	A N	A N
25 ________	A N	A N	A N	A N	A N
26 ________	A N	A N	A N	A N	A N
27 ________	A N	A N	A N	A N	A N
28 ________	A N	A N	A N	A N	A N
29 ________	A N	A N	A N	A N	A N
30 ________	A N	A N	A N	A N	A N
31 ________	A N	A N	A N	A N	A N
32 ________	A N	A N	A N	A N	A N
33 ________	A N	A N	A N	A N	A N
34 ________	A N	A N	A N	A N	A N
35 ________	A N	A N	A N	A N	A N
36 ________	A N	A N	A N	A N	A N
37 ________	A N	A N	A N	A N	A N
38 ________	A N	A N	A N	A N	A N
39 ________	A N	A N	A N	A N	A N
40 ________	A N	A N	A N	A N	A N

If 'N', enter pump or valve # ________ and circle appropriate problem: potential leak, active leak, sticking, wear, does not operate smoothly, other: ________________

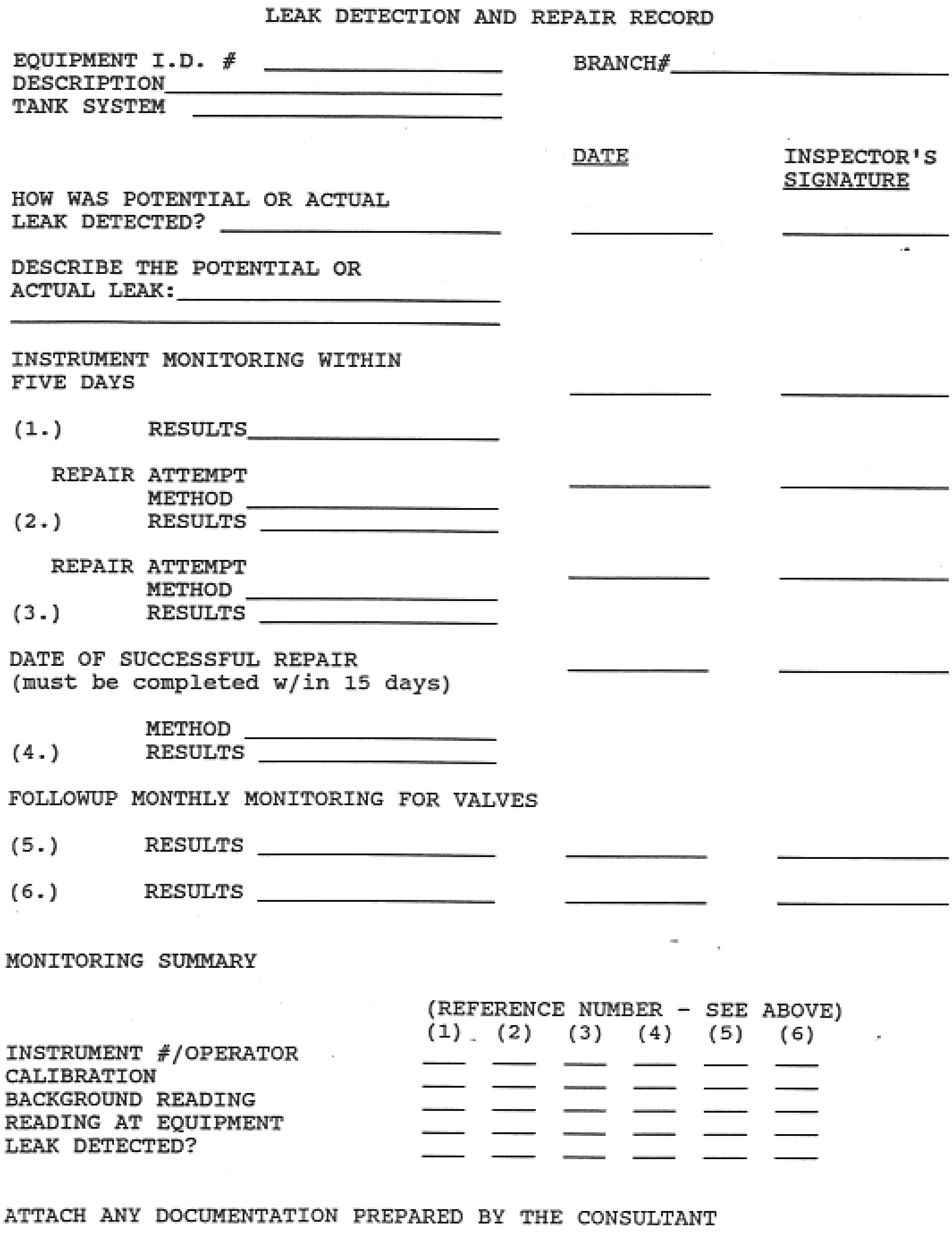
For all leaks and potential leaks, the Leak Detection and Repair Record **must** be completed.

*** Add short descriptions of unit being inspected (e.g. gate valve, dumpster flange, dumpster pump, etc.)**

**** A = Acceptable N = Not Acceptable**

Draw a line through valve and pump I.D. numbers which do not apply.

ATTACHMENT B – Example Subpart BB Leak Detection and Repair Form



LEAK DETECTION AND REPAIR RECORD

EQUIPMENT I.D. # ____________ BRANCH# ____________
DESCRIPTION ____________
TANK SYSTEM ____________

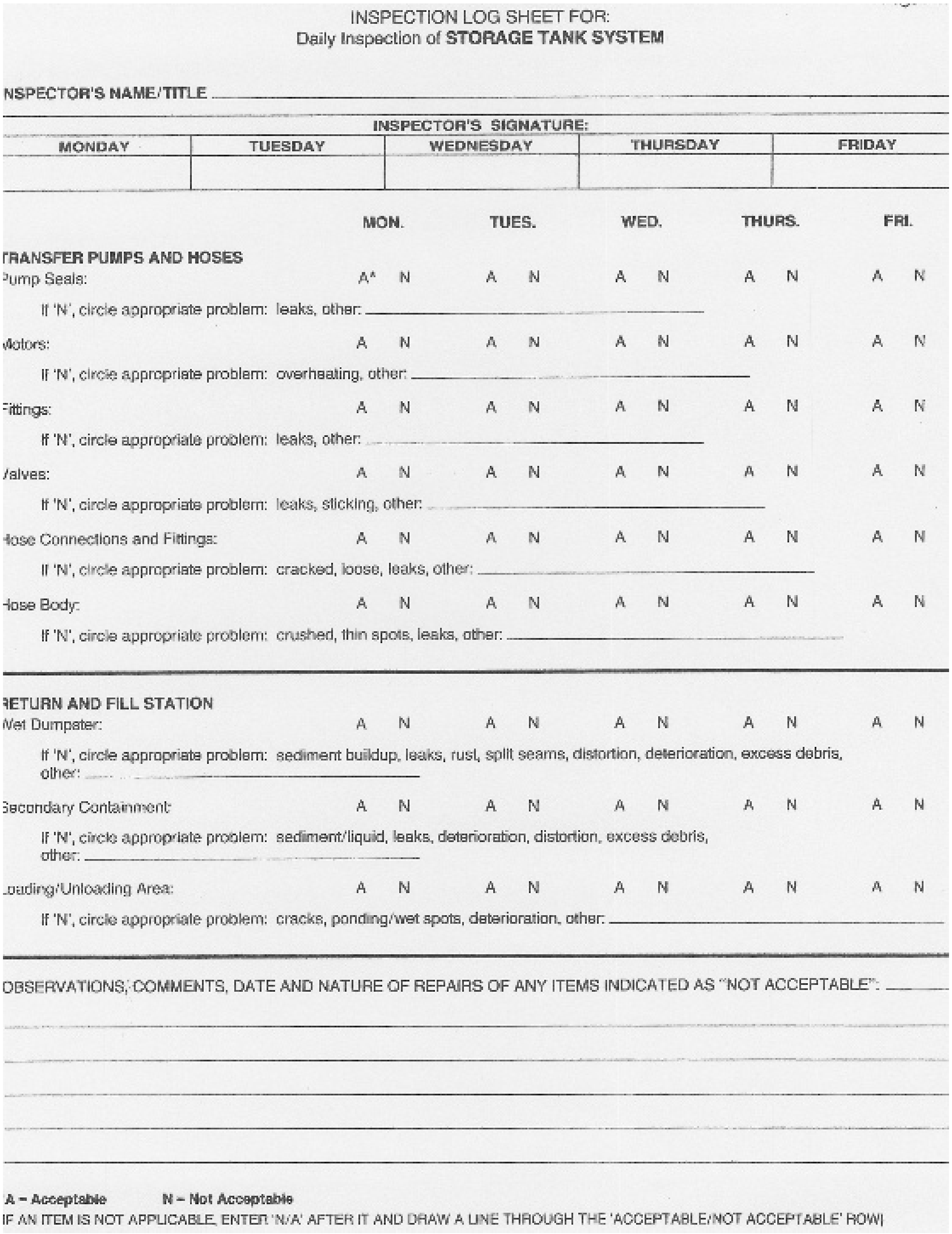
	DATE	INSPECTOR'S SIGNATURE
HOW WAS POTENTIAL OR ACTUAL LEAK DETECTED? ____________	________	________
DESCRIBE THE POTENTIAL OR ACTUAL LEAK: ____________ ____________		
INSTRUMENT MONITORING WITHIN FIVE DAYS	________	________
(1.) RESULTS ____________		
REPAIR ATTEMPT	________	________
METHOD ____________		
(2.) RESULTS ____________		
REPAIR ATTEMPT	________	________
METHOD ____________		
(3.) RESULTS ____________		
DATE OF SUCCESSFUL REPAIR (must be completed w/in 15 days)	________	________
METHOD ____________		
(4.) RESULTS ____________		
FOLLOWUP MONTHLY MONITORING FOR VALVES		
(5.) RESULTS ____________	________	________
(6.) RESULTS ____________	________	________

MONITORING SUMMARY

	(REFERENCE NUMBER - SEE ABOVE)					
	(1)	(2)	(3)	(4)	(5)	(6)
INSTRUMENT #/OPERATOR	___	___	___	___	___	___
CALIBRATION	___	___	___	___	___	___
BACKGROUND READING	___	___	___	___	___	___
READING AT EQUIPMENT	___	___	___	___	___	___
LEAK DETECTED?	___	___	___	___	___	___

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**

NSPECTOR'S NAME/TITLE ________________________

INSPECTOR'S SIGNATURE:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

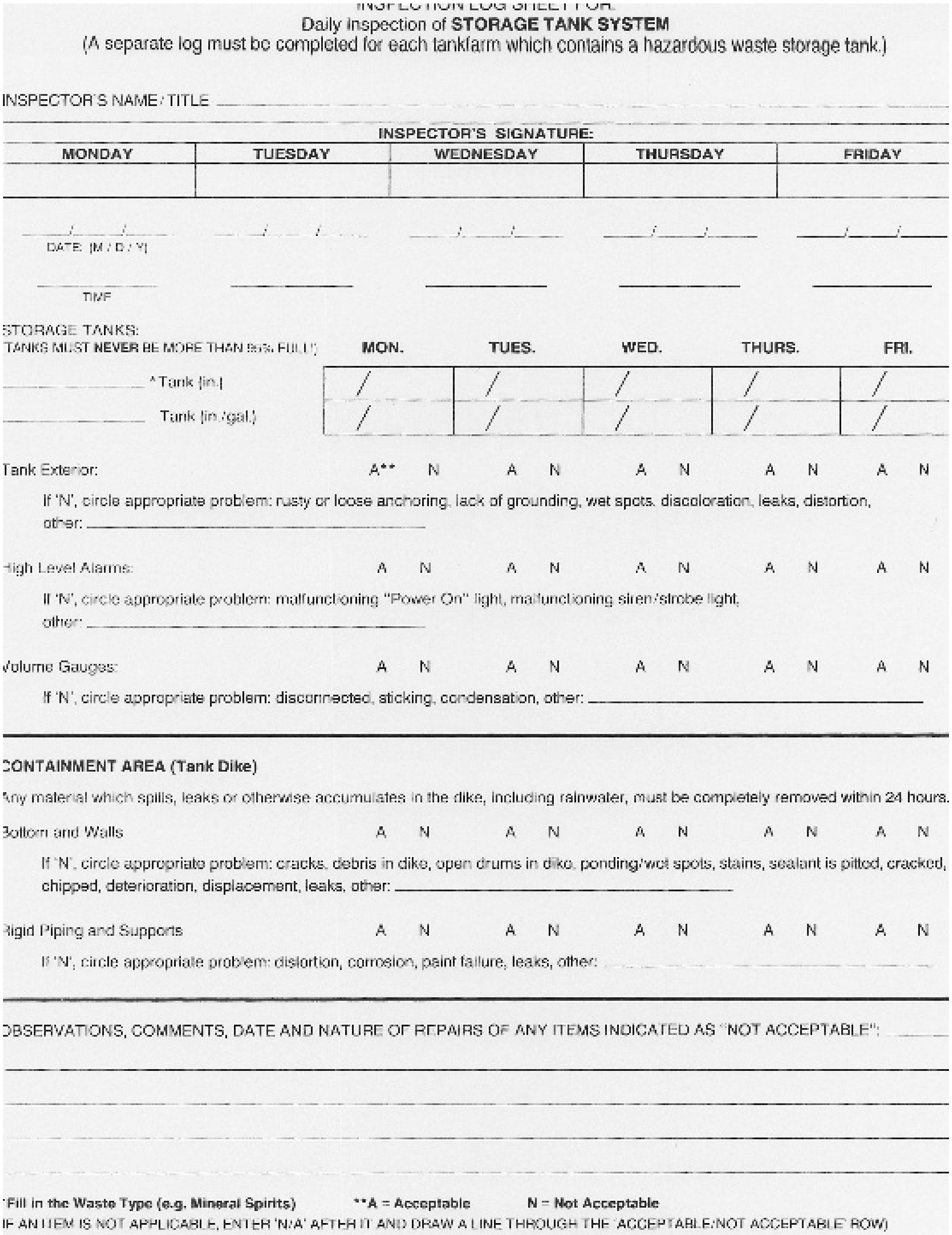
	MON.	TUES.	WED.	THURS.	FRI.
TRANSFER PUMPS AND HOSES					
ump Seals:	A* N	A N	A N	A N	A N
If 'N', circle appropriate problem: leaks, other: ________					
otors:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: overheating, other: ________					
ittings:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: leaks, other: ________					
alves:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: leaks, sticking, other: ________					
ose Connections and Fittings:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: cracked, loose, leaks, other: ________					
ose Body:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: crushed, thin spots, leaks, other: ________					
ETURN AND FILL STATION					
Vet Dumpster:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: sediment buildup, leaks, rust, split seams, distortion, deterioration, excess debris, other: ________					
econdary Containment:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: sediment/liquid, leaks, deterioration, distortion, excess debris, other: ________					
oading/Unloading Area:	A N	A N	A N	A N	A N
If 'N', circle appropriate problem: cracks, ponding/wet spots, deterioration, other: ________					

OBSERVATIONS, COMMENTS, DATE AND NATURE OF REPAIRS OF ANY ITEMS INDICATED AS "NOT ACCEPTABLE": ________

A – Acceptable **N – Not Acceptable**

IF AN ITEM IS NOT APPLICABLE, ENTER 'N/A' AFTER IT AND DRAW A LINE THROUGH THE 'ACCEPTABLE/NOT ACCEPTABLE' ROW)

ATTACHMENT C – Example Subpart CC Daily Inspection Form Page 2 of 3



INSPECTION LOG SHEET FOR:
Daily inspection of **STORAGE TANK SYSTEM**
(A separate log must be completed for each tankfarm which contains a hazardous waste storage tank.)

INSPECTOR'S NAME / TITLE ______________________________

INSPECTOR'S SIGNATURE:

MONDAY	**TUESDAY**	**WEDNESDAY**	**THURSDAY**	**FRIDAY**
___/___/___ DATE (M / D / Y)	___/___/___	___/___/___	___/___/___	___/___/___
________ TIME	________	________	________	________

STORAGE TANKS: (TANKS MUST **NEVER** BE MORE THAN 95% FULL!)	**MON.**	**TUES.**	**WED.**	**THURS.**	**FRI.**
________ *Tank (in.)	/	/	/	/	/
________ Tank (in./gal.)	/	/	/	/	/
Tank Exterior:	A** N	A N	A N	A N	A N
High Level Alarms:	A N	A N	A N	A N	A N
Volume Gauges:	A N	A N	A N	A N	A N

Tank Exterior: If 'N', circle appropriate problem: rusty or loose anchoring, lack of grounding, wet spots, discoloration, leaks, distortion, other: ______________________

High Level Alarms: If 'N', circle appropriate problem: malfunctioning "Power On" light, malfunctioning siren/strobe light, other: ______________________

Volume Gauges: If 'N', circle appropriate problem: disconnected, sticking, condensation, other: ______________________

CONTAINMENT AREA (Tank Dike)

Any material which spills, leaks or otherwise accumulates in the dike, including rainwater, must be completely removed within 24 hours.

	MON.	TUES.	WED.	THURS.	FRI.
Bottom and Walls	A N	A N	A N	A N	A N
Rigid Piping and Supports	A N	A N	A N	A N	A N

Bottom and Walls: If 'N', circle appropriate problem: cracks, debris in dike, open drums in dike, ponding/wet spots, stains, sealant is pitted, cracked, chipped, deterioration, displacement, leaks, other: ______________________

Rigid Piping and Supports: If 'N', circle appropriate problem: distortion, corrosion, paint failure, leaks, other: ______________________

OBSERVATIONS, COMMENTS, DATE AND NATURE OF REPAIRS OF ANY ITEMS INDICATED AS "NOT ACCEPTABLE": ______

____

____

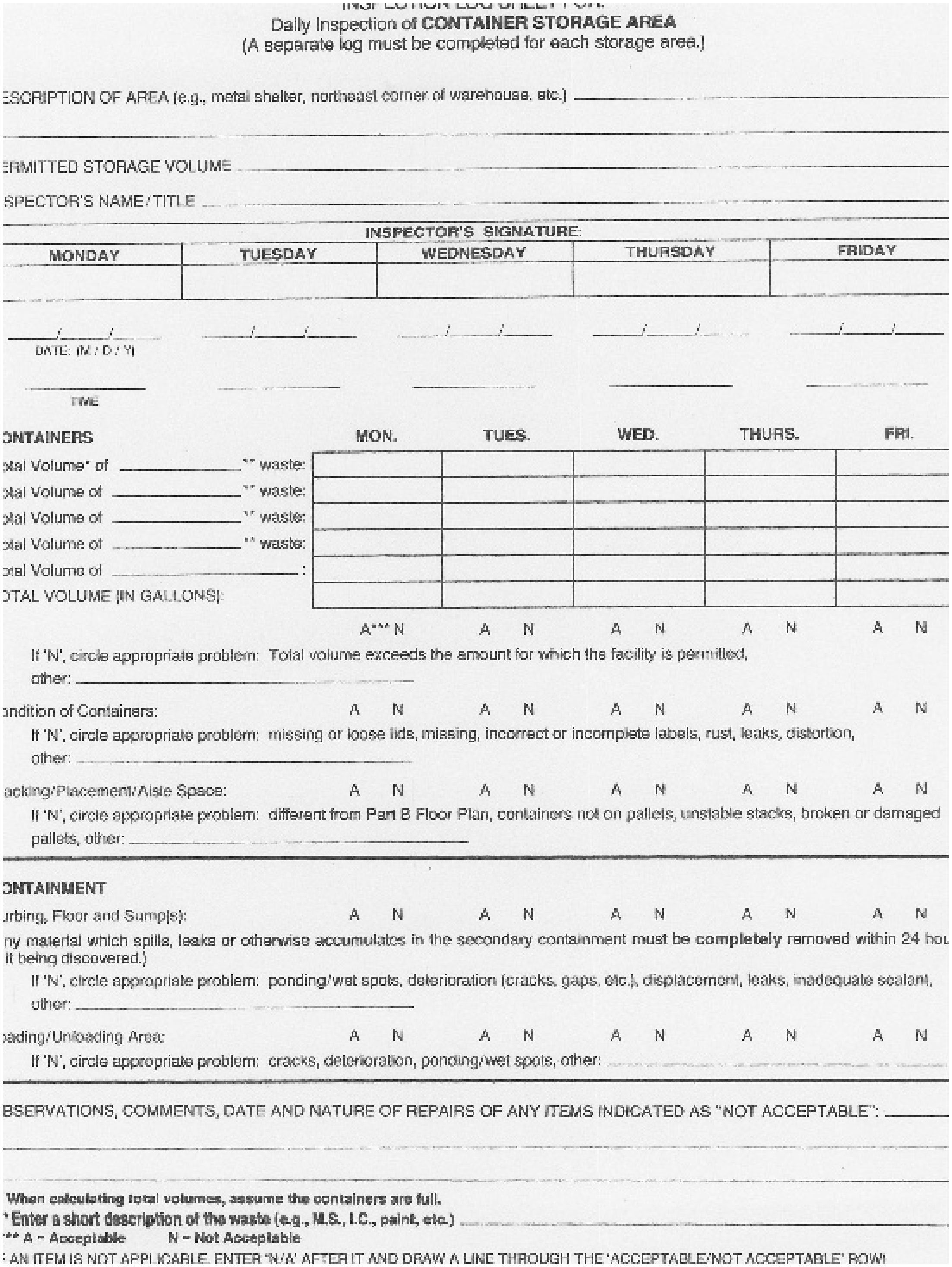
____

____

***Fill in the Waste Type (e.g. Mineral Spirits)** ****A = Acceptable** **N = Not Acceptable**

(IF AN ITEM IS NOT APPLICABLE, ENTER 'N/A' AFTER IT AND DRAW A LINE THROUGH THE 'ACCEPTABLE/NOT ACCEPTABLE' ROW)

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.)

ESCRIPTION OF AREA (e.g., metal shelter, northeast corner of warehouse, etc.) ______

ERMITTED STORAGE VOLUME ______

SPECTOR'S NAME / TITLE ______

INSPECTOR'S SIGNATURE:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY

____/____/____ ____/____/____ ____/____/____ ____/____/____ ____/____/____
DATE: (M / D / Y)

______ ______ ______ ______ ______
TIME

ONTAINERS	**MON.**	**TUES.**	**WED.**	**THURS.**	**FRI.**
otal Volume* of ______** waste:					
otal Volume of ______** waste:					
otal Volume of ______** waste:					
otal Volume of ______** waste:					
otal Volume of ______:					
OTAL VOLUME (IN GALLONS):					

A*** N   A N   A N   A N   A N

If 'N', circle appropriate problem: Total volume exceeds the amount for which the facility is permitted,
other: ______

ondition of Containers: A N   A N   A N   A N   A N

If 'N', circle appropriate problem: missing or loose lids, missing, incorrect or incomplete labels, rust, leaks, distortion,
other: ______

acking/Placement/Aisle Space: A N   A N   A N   A N   A N

If 'N', circle appropriate problem: different from Part B Floor Plan, containers not on pallets, unstable stacks, broken or damaged pallets, other: ______

ONTAINMENT

urbing, Floor and Sump(s):   A N   A N   A N   A N   A N

ny material which spills, leaks or otherwise accumulates in the secondary containment must be **completely** removed within 24 hou
it being discovered.)

If 'N', circle appropriate problem: ponding/wet spots, deterioration (cracks, gaps, etc.), displacement, leaks, inadequate sealant,
other: ______

oading/Unloading Area: A N   A N   A N   A N   A N

If 'N', circle appropriate problem: cracks, deterioration, ponding/wet spots, other: ______

BSERVATIONS, COMMENTS, DATE AND NATURE OF REPAIRS OF ANY ITEMS INDICATED AS "NOT ACCEPTABLE": ______

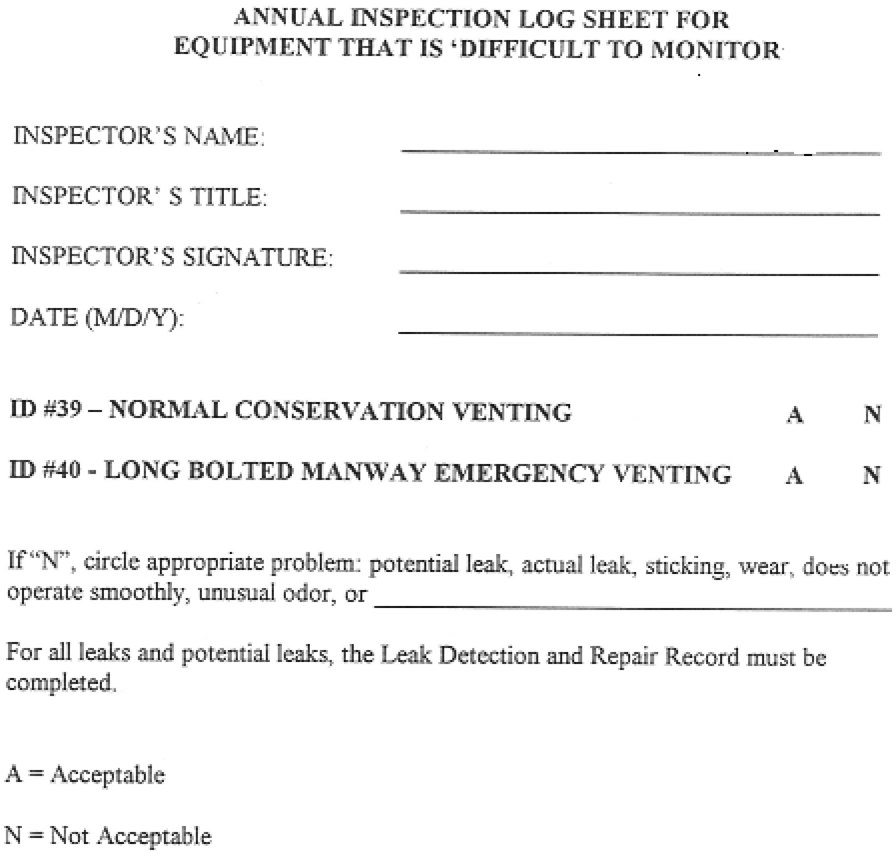
When calculating total volumes, assume the containers are full.

*** Enter a short description of the waste (e.g., M.S., I.C., paint, etc.)** ______

**** A – Acceptable   N – Not Acceptable**

AN ITEM IS NOT APPLICABLE, ENTER 'N/A' AFTER IT AND DRAW A LINE THROUGH THE 'ACCEPTABLE/NOT ACCEPTABLE' ROW!

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 CONSERVATION VENTING A N

ID #40 - LONG BOLTED MANWAY EMERGENCY VENTING A N

If "N", circle appropriate problem: potential leak, actual leak, sticking, wear, does not operate smoothly, unusual odor, or ______________________________

For all leaks and potential leaks, the Leak Detection and Repair Record must be completed.

A = Acceptable

N = Not Acceptable