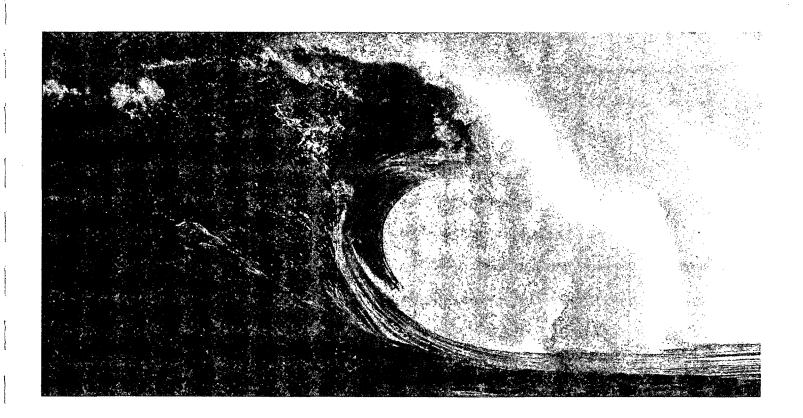
### ORIGINAL



### **USFilter**

CLOSURE PLAN AND CLOSURE COST ESTIMATE
POMPANO BEACH FACILITY

USFILTER RECOVERY SERVICES MID-ATLANTIC, INC.
POMPANO BEACH, FLORIDA

DECEMBER 2002



### CLOSURE PLAN AND CLOSURE COST ESTIMATE POMPANO BEACH FACILITY

USFILTER RECOVERY SERVICES MID-ATLANTIC, INC.
POMPANO BEACH, FLORIDA

DECEMBER 2002

PREPARED BY: LISA SENDEK

APPROVED BY: STEVE McGuire

6109-03

### USFilter

Engineering & Construction Airside Business Park 250 Airside Drive Moon Township, PA 15108 412.809.6000 phone 412.809.6075 fax





ENGINEERING & CONSTRUCTION AIRSIDE BUSINESS PARK 250 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 TELEPHONE FACSIMILE 412-809-6000 412-809-6711 www.usfilter.com

Ref: 6109-03

#### VIA FEDEX Track # 7915 0312 0906

December 30, 2002

Florida Department of Environmental Protection Bureau of Solid and Hazardous Waste Hazardous Waste Regulation Section Attn: Environmental Administrator – MS 4560 2600 Blairstone Road Tallahassee, FL 32399-2400

JAN 3 = 2003

DEPT OF ENV PROTECTION
WEST PALM BEACH

Re:

Revised Application for Used Oil Processing Permit Renewal

USFilter Recovery Services Mid-Atlantic, Inc. Pompano Beach Used Oil Processing Facility

USFilter Recovery Services Mid-Atlantic is pleased to submit two copies of our revised application for renewal of the Used Oil Processing Permit for our Pompano Beach Facility. The December revisions have been prepared according to the Notice of Deficiency requirements of Mr. Bill Parker, FDEP Permit Engineer for this facility. One copy is marked as the original; the second is marked as a copy. As required, an additional copy has been sent to the FLDEP Southeast District Office in West Palm Beach. As a separate part of the application procedure, a copy of the Closure Cost Estimate, stamped by a Florida PE, has been previously submitted to the Solid Waste Specialist at the Southeast District Office.

Any questions concerning this application may be directed as follows:

Ms. Lisa Sendek USFilter Engineering & Construction 250 Airside Drive Moon Township, PA 15108 Tel: 412-809-6737

Thank you for your attention to this submittal.

Sincerely,

USFilter Engineering and Construction

Lisa J. Sendek Project Scientist

LJS: dll-098\_

cc:

FLDEP Southeast District - Certified Mail 7099 3400 0017 5730 9842

Cathy Porthouse

Tim Ford

aVIVENDI
Environnement company

cerie be densime

DEP Form#

62-710.901(d)

Form Title

Used Oil Processing Facility

Permit Application

December 23, 1996

Effective Date

#### APPLICATION FORM FOR A USED OIL PROCESSING PERMIT

#### **PART II - CERTIFICATION**

Form 62-710.901(d) P. E. Certification [Complete when required by Chapter 471, F.S. and Rules 62-4.050, 62-761, 62-762, 62-701 and 62-710, F.A.C.]

Use this form to certify to the Department of Environmental Protection for:

- Certification of secondary containment adequacy (capacity), structural integrity (structural strength), and underground process piping for storage tanks, process tanks, and container storage.
- 2. Certification of leak detection.
- Substantial construction modifications. 3.
- $X_{4}$ Those elements of a closure plan requiring the expertise of an engineer.
  - Tank design for new or additional tanks.
- Y 6. Recertification of above items.

	Please Print	or Type	
X	Initial Certification	Y	Recertification
DEP Facility ID Number:	FL0000346304	2. Tank Numbers: _	Table 1 List
3. Facility Name: USFilte	er Recovery Service	s Mid Atlantic-l	Fort Pierce Facility
4. Facility Address: 5690 V	Vest Midway Road,	Fort Pierce, FL	34981
This is to certify that the engine me and found to conform to en facility, when properly construct the State of Florida and rules of	gineering principles applicab cted, maintained and operated	le to such facilities. In d, or closed, will compl	my professional judgment, this
Signature Norbort Josep	eph Lindner, P.E.		
Name (please type)	epischiuner, r.E.		
Florida Registration Number: _	50903	_	
Mailing Address: 250 Airs	ide Drive		
Stre	et or P.O. Box ownship, PA 15108	-	
Date: 12/27/02 Telep	State Zin hone (412) 809-6160		
PLEASE AFFIX SEALI			
60000000000000000000000000000000000000	e to		

### USFILTER RECOVERY SERVICES MID-ATLANTIC, INC. POMPANO BEACH USED OIL PROCESSING FACILITY CLOSURE PLAN AND CLOSURE COST ESTIMATE

The USFilter Recovery Services Mid-Atlantic, Inc. (USFRSMA) Pompano Beach facility located at 1280 NE 48<sup>th</sup> Street is designed, constructed, and operated to minimize any threat to the environment. The closure plan will be updated whenever significant operational changes occur or design changes are made. The closure plan will be maintained with records required under Rules 62-701 and 62-710, Florida Administrative Codes (FAC). A Solid Waste Closure Cost Estimate, for which financial assurance is required, is presented for those aspects of the facility engaged in the handling of Solid Wastes. Solid Waste operations are limited to the container storage areas. As requested by FLDEP, an overall facility Closure Cost Estimate, for which financial assurance is not required, is also presented.

The Closure Plan is based upon a scheduled and orderly shutdown of the facility. USFRSMA will submit an updated and detailed closure plan to the FDEP at least 60 days prior to the scheduled date of closing the facility. At this time, there is no scheduled closure date for the facility. The intent is to operate the facility for the indefinite future. Within 30 days after closing the facility, USFRSMA will submit a certification of closure completion to the FDEP, which demonstrates that the facility was closed in substantial compliance with the detailed closure plan.

#### CLOSURE PERFORMANCE STANDARD

Should closure become necessary, USFRSMA will comply with the requirements of 40 CFR, Part 279.54(h) and Chapter 62-710, FAC. The intent is to decommission the facility to an environmentally safe and secure state such that:

- There will be no need for further facility maintenance;
- Used oil will not contaminate surface or groundwater;
- All tanks, piping, secondary containment, and ancillary equipment will be emptied, cleaned, and decontaminated, and all storage materials removed and managed; and
- All aboveground storage and process tanks will be closed pursuant to Rule 62-761.800(2)(c), FAC.

The demolition of the facilities is not a part of the basic closure decommissioning process. If demolition becomes necessary to achieve the Closure Performance Standard, such demolition would be considered a contingency item. Demolition activities after



achieving closure certification are a business item not within the scope of this Closure Plan.

#### **VERIFICATION OF CLOSURE PERFORMANCE STANDARD**

The Final Closure of the USFRSMA Pompano Beach facility will require characterization of soil and groundwater quality conditions. The relevant Clean-up Target Levels for soil and groundwater are contained in FAC Rule 62-777.170. Petroleum Product Contaminants of Concern are defined in Rule 62-770. Sampling and analytical protocols will be in accordance with U.S. EPA SW-846 Methods and will include the Florida Petroleum Residual Organic Method for Total Recoverable Petroleum Hydrocarbons. In general, analyses will be required for Florida pre-burn constituents. Metals will be analyzed by Method 6010 or Graphite Furnace Method 7470 for mercury; volatile and semi-volatile organics will be analyzed by Methods 8260/8270. The laboratory will use other U.S. EPA-approved methods appropriate to the sample matrix and analytical requirements.

The Florida regulations do not contain any specific guidelines for determining whether equipment, tanks, and containment have been successfully decontaminated. If guidelines were available, they might be based on rinsate or wipe samples. At a minimum, rinsate samples will be compared to 40 CFR Part 261 limits for a characteristic hazardous waste. PCB wipe sample would be evaluated according to 40 CFR 761 protocols. Although the facility does not process hazardous wastes, it does handle hazardous wastes on a 10-day transporter transfer basis; therefore, the most appropriate decontamination standards are those identified in 40 CFR 268, Table 1, for the decontamination of material to a clean debris surface. Table 1, Option A(1)(e) for high-pressure steam or water and Option A(2)(a) for water wash, including the use of additives to remove hazardous contaminants, are the most readily available. These performance standards do not require analytical confirmatory testing, as the objective standard is visual inspection. QA/QC confirmatory tests using wipes or rinsates can be utilized if desired. Rinsates would be assessed for the presence of 40 CFR 261 hazardous characteristics.

#### CLOSURE OF TANK STORAGE

Maximum tank storage is 431,500 gallons (237,000 gallons for used oil). The facility contains three batteries: West (Zone A), Central (Zone B), and East (Zone C). A list of the storage tanks present at the Pompano Beach location is presented in Table 1.

Table 1

# West Tank Battery Summary of Aboveground Storage Tanks USFilter Recovery Services – Pompano Beach, Florida, Oil Plant Pompano Beach, Florida

Tank : Number	Volume (Gallons)	Material Stored in Tank	Installation Date	Containment  Displacement  (Gallons) *
18	12,000	Used Oil	06/01/99	2,860
19	25,000	Used Oil	06/01/99	3,971
22	15,000	Used Oil	06/01/99	2,444
23	20,000	Used Oil	06/01/99	3,166
24	20,000	Used Oil	06/01/99	3,166
25	20,000	Used Oil	06/01/99	3,166
26	20,000	Used Oil	06/01/99	3,166
27	20,000	Used Oil	06/01/99	3,166
Piping	N/A	N/A	N/A	2,095
Total	152,000			25,105

<sup>\*</sup>There is a 5-inch gap between the containment floor and the tank bottom. Tank displacement was measured as if there were 27.0 inches in the tanks. The two total the 32-inch height of the secondary containment area.

#### Table 1 (continued)

# Central Tank Battery (Zone B) Summary of Aboveground Storage Tanks USFilter Recovery Services – Pompano Beach, Florida, Oil Plant Pompano Beach, Florida

Number	Volume (Gallons)	Material Stored in Tank	Installation Date	Contamment Displacement (Gallons) *
1	25,000	Process waters	06/01/93	3971
2	25,000	Process waters	06/01/93	3971
3	25,000	Used Oil	06/01/93	3971
4	10,000	Oily Water	06/01/93	1628
5	10,000	Antifreeze	06/01/93	1628
6	10,000	PCW	06/01/93	1628
7	10,000	PCW	06/01/93	1628
8	10,000	Oily Water	06/01/93	1628
9	10,000	Oily Water	06/01/93	1628
10	10,000	Used Oil	06/01/93	1628
11	10,000	Used Oil	06/01/93	1628
12	10,000	Used Oil	06/01/93	1628
13	10,000	Used Oil	06/01/93	1628
14	10,000	Used Oil	06/01/93	1628
15	10,000	Used Oil	06/01/93	1628
16	25,000	On-Spec Oil	06/01/93	3971
17	25,000	On-Spec Oil	06/01/93	3971
23D	1,500	Diesel	06/01/93	603
22PCW	3,000	PCW	06/01/93	1,047
Piping	N/A	N/A	N/A	3,765
Total	249,500			44806

<sup>\*</sup>There is a 5-inch gap between the containment floor and the tank bottom. Tank displacement was measured as if there were 27.0 inches in the tanks. The two total the 32-inch height of the secondary containment area.



#### Table 1 (continued)

## East Tank Battery (Zone C) Summary of Aboveground Storage Tanks USFilter Recovery Services – Pompano Beach, Florida, Oil Plant Pompano Beach, Florida

Tank * Number	Younne (Gallons)	Material Stored	Installation Date	Containment Displacement (Gallons) *
20	15,000	Water (Feeder tank)	06/01/93	2,444
21D	15,000	Diesel	06/01/93	2,444
Piping	N/A	N/A	N/A	400
Total	30,000			5,288

<sup>\*</sup>There is a 5-inch gap between the containment floor and the tank bottom. Tank displacement was measured as if there were 27.0 inches in the tanks. The two total the 32-inch height of the secondary containment area.

Containment Zone A Storage Capacity		Containment Zone B Storage Capacity		
Length (ft.)	66	Length (ft.)	147	
Width (ft.)	100	Width (ft.)	70-118	
Height (ft.)	2.67	Height (ft.)	2.67	
Volume (gal)	131,812	Volume (gal)	234,268	
Displacement	27,615	Displacement	<u>49,286</u>	
Available Volume (gal)	104,197	Available Volume (gal)	184,982	

#### Containment Zone C Storage Capacity

Length (ft.)	21
Width (ft.)	70
Height (ft.)	2.67
Volume (gal)	29,358
Displacement	<u>5,816</u>
Available Volume (gal)	23,542

Upon closure, all tanks will be emptied. Any inventory that meets or can be processed to meet marketing specifications for used oil will be processed and marketed as such. All material will be characterized in accordance with 40 CFR 279.54(h) and Part 261. Characterization will be based on process knowledge and chemical analysis for TCLP constituents. Upon closure of the tank system in accordance with 40 CFR Part 279, USFRSMA will remove or decontaminate used oil residues in tanks, contaminated secondary containment system components, contaminated soils, structures, and



equipment. USFRSMA will manage these materials as hazardous waste, unless the materials are not hazardous waste as determined by chemical analysis. The wastes will be properly contained and shipped to a permitted disposal facility.

Liquid wastes will be removed via the tank piping system and handled as an oily waste. Material that cannot be removed via the piping system will be accessed via the tank manways or hatches. Confined space entry procedures will be followed. Residual liquid and sludge material at the bottom of each tank will be removed via pumping and handled as an oily sludge. Solid material at the bottom of the tank that cannot be removed as sludge will be removed and handled as an oily solid.

After the tanks are emptied, they will be first saturated with steam for up to 24 hours to loosen any hardened material. The steam condensate and generated solids will be handled as an oily sludge. Manual scraping will be performed to remove any remaining hardened material. The tanks will then be pressure-washed until the visual inspection performance standard is achieved. Final rinsate samples will be collected as QA/QC confirmation of decontamination status.

As a contingent measure, if the tanks cannot be successfully decontaminated in place, the tanks will be cut up and further decontamination will be attempted. Upon achievement of the decontamination standard, the tanks would then be disposed as scrap. If decontamination cannot be successfully achieved, it would then be necessary to appropriately dispose the tanks as a solid waste. Ancillary piping within the tank farm will be decontaminated in a complementary manner.

As part of an orderly shutdown procedure, oily water will be processed through the facility treatment system. Oily sludges and solids will be placed in appropriate containers and shipped off site for proper disposal.

#### CLOSURE OF TANK FARM CONTAINMENT

Once tanks within the tank farm have been successfully decontaminated, the containment area will be addressed. Manual scraping will be performed to remove any hardened material. The containment area will then be pressure-washed until the visual inspection performance standard is achieved. Final rinsate samples will be collected as QA/QC confirmation of decontamination status to ensure that all hazardous compounds have been removed.

#### CLOSURE OF CONTAINER STORAGE AREA

Maximum container storage: non-hazardous drums: 1000

hazardous drums: 60

30-yard roll-off boxes: 1

20-yard roll-off boxes 5



Upon closure, containers in storage will be tested as necessary to confirm hazardous waste classification status, removed, and shipped to a proper disposal facility. Once all containers are removed, decontamination of the container storage will take place. Manual scraping will be performed to remove any hardened material. Mechanical scrabbling will be used if necessary. The containment area will then be pressure-washed until the visual inspection performance standard is achieved. Final rinsate samples will be collected as QA/QC confirmation of decontamination status to ensure that all hazardous compounds have been removed. Any remaining oil bleed stains on concrete will be wipe tested for PCBs.

All materials used in the decontamination will be either processed through the facility waste treatment system, or contained and shipped off site to the proper disposal facility.

#### DECONTAMINATION OF WASTE TREATMENT SYSTEM

Once wastewater generated by the decontamination of the tanks and containment areas has been processed, the waste treatment system will be decontaminated. Tanks will be decontaminated in a manner similar to the storage tanks. Manual scraping will be performed to remove any hardened material. The waste treatment equipment and associated containment areas will then be pressure-washed until the visual inspection performance standard is achieved. Final rinsate samples will be collected as QA/QC confirmation of decontamination status to ensure that all hazardous compounds have been removed.

#### VISUALLY CONTAMINATED SOILS

The facility is designed to prevent the contamination of surrounding soils. At the time of the closure, any surficial soils exhibiting obvious contamination will be excavated and tested prior to appropriate disposal.

#### CLOSURE ASSESSMENT

Rule 761.800(4) requires the completion of a Closure Assessment. The closure assessment may be implemented either in parallel with or at the conclusion of the general decontamination of the facility. Waste material generated through investigation will be managed to the maximum possible extent through the facility waste management and treatment systems. Otherwise, investigative wastes will be separately managed, tested, and appropriately disposed.

The Closure Assessment is based upon a reconnaissance-level soil and groundwater investigation to determine whether the facility has impacted soils and groundwater. As such, the initial Closure Assessment will not provide a complete horizontal and vertical characterization of any discovered contamination. The comprehensive development of a



Site Conceptual Model and Site Characterization would be addressed as a contingent item.

A specific investigation plan will be developed at the time of closure. A Site-Specific Health and Safety Plan will be developed in accordance with OSHA 1910.120. The Florida One-Call utility notification procedure will be followed. Requirements for the use of Florida registered Professional Engineers, Geologists, and Certified Laboratories will be addressed. The intent will be to generate information that will meet the Florida Brownfields Program information requirements.

The reconnaissance Closure Assessment investigative procedure is based on the use of Geoprobe techniques where groundwater is above the soil/bedrock interface. If groundwater is below the soil/bedrock interface, other drilling techniques appropriate to the site geology will be required.

Soil sampling will be accomplished by either grab samples from Geoprobe liners or samples from auger split-spoon sampling. Soils samples will be selected for testing based upon visual and field meter evidence of contamination status. Samples will be obtained from the 0- to 2-foot Direct Contact interaction zone. If obvious contamination extends to the soil/bedrock interface, samples will be obtained at the interface. Additional samples will also be collected at other depth intervals based on observed site conditions.

Groundwater status will be determined by installing temporary monitoring wells in the Geoprobe or auger test borings. Test borings will not be completed as permanent monitoring wells unless site-specific conditions observed during the investigation warrant.

Petroleum product contaminants of concern are defined in Table A of 62-770 FAC. Soil and groundwater samples will be tested for the specified constituents using the specified or any proposed alternative analytical methods. At a minimum, Florida pre-burn constituents defined in FAC 62-713 will be used as the minimal basis for selecting constituents. The regulations at 40 CFR 279.54(h)(1)(i) require facility decontamination and management of wastes. For the purposes of this closure plan, a determination of whether soil and/or groundwater contamination is present will be made by reference to Florida Clean-up Target Levels as defined at 62-777-170 FAC. Additional samples may be analyzed for a broader range of constituents to evaluate the site status with respect to Soil Clean-up Target Levels under both the residential and commercial/industrial land For initial estimation purposes, approximately twenty soil and groundwater samples will be evaluated. The exact number of samples will be determined at the time of closure activities and will be reflective of actual site conditions at that time. Sufficient samples will be collected to ensure statistical significance. Additional TCLP analysis may be required for the D-listed constituents, as per 40 CFR Part 261.



If soil and/or groundwater are determined to be contaminated by the reconnaissance Closure Assessment, it will be necessary to implement a more comprehensive Site Characterization and Groundwater Quality Assessment Plan as required by 40 CFR 265.93 utilizing the administrative procedures of the Florida Brownfields Program. A Site Investigation Plan to establish the horizontal and vertical extent of contamination will be prepared and submitted to FDEP for approval. The Groundwater Quality Assessment Plan will include the number, location, and depth of wells; sampling and analytical methods for those hazardous wastes or hazardous waste constituents in the facility; evaluation procedures, including any use of previously-gathered groundwater quality information; and a schedule of implementation. The resulting Site Characterization Report will include, at a minimum, the calculated or measured rate of migration of hazardous waste or hazardous waste constituents in the groundwater. If necessary, a Corrective Action Program will be proposed and implemented to achieve the soil and groundwater Clean-up Target Levels. If it proves to be impractical to satisfactorily decontaminate the site, then the Closure and Post-Closure Care requirements of 40 CFR 265.310 will apply. These include requirements for any longterm soil and groundwater monitoring.

If groundwater is monitored, USFRSMA will keep records throughout the closure and post-closure period. In addition, USFRSMA will submit to the Regional Administrator an annual report containing the results of the groundwater assessment and/or monitoring program that will include, at a minimum, the calculated or measured rate of migration of hazardous waste or hazardous waste constituents in the groundwater during the reporting period. This information will be submitted no later than March 1 following each calendar year.

Facility closure will be performed in a timely fashion. All accumulated materials will be characterized for proper disposal. Material shipments will take place within 10 working days of final characterization. Tanks and equipment will be decontaminated within 60 calendar days.

#### CLOSURE COST ESTIMATE

The Closure Plan is based on an orderly planned shutdown of the facility by USFRSMA. FDEP requires, however, that the Closure Cost Estimate be based on a worst-case scenario. That scenario is generally considered to be an unplanned situation in which the State will be responsible for implementing site closure using contractors hired by the State. It assumes that all tanks are full of material and that all contents of all tanks must be characterized to determine hazardous waste classification status. It also assumes that the on-site treatment processing equipment is not operational and that all materials must be transported off site for processing and appropriate disposal. The demolition of facilities is not considered to be a requirement for decontamination.



Two Closure Cost Estimates are presented. Table 2 is the Closure Cost Estimate for the solid waste operations for which there is a financial assurance requirement. As requested by FDEP on October 23, 2002, for this application, Table 3 contains an overall facilitywide Closure Cost Estimate for which financial assurance is not presently required. FDEP indicated that a requirement for an overall Closure Cost Estimate and financial assurance is anticipated in the near future. The Solid Waste Closure Cost Estimate presented as Table 2 is incorporated into the overall estimates of Table 3. The cost estimate utilizes Year 2001 Florida Prevailing Wage Rates with typical Contractor The Cost Estimate includes the Closure Assessment Billing Rate Multipliers. reconnaissance soil and groundwater investigation. A cost allowance is included for the clean-up of areas of surficially stained soil as part of the basic site decontamination. The cost estimate includes a Contingency of 15 percent and an Administrative Cost of 10 percent. Should contamination be discovered, the Cost Estimate does not include any costs for a more comprehensive Site Characterization, Groundwater Assessment, Corrective Action, or long-term monitoring.

The Solid Waste Closure Cost Estimate for which financial assurance is required is \$76,149 (say \$76,000). The total closure Decontamination Cost Estimate for the USFRSMA Pompano Beach facility is \$416,289 (say \$416,000).

Closure cost estimate date: 12/30/02

# USFILTER RECOVERY SERVICES MID-ATLANTIC POMPANO BEACH, FLORIDA FACILITY TABLE 2 SOLID WASTE CLOSURE DECONTAMINATION COST ESTIMATE

<b>Unit Transportation and Disposal</b>	Costs			NOTE	
		<b>-</b>		NOTE:	00444550::-
Oily water		\$/Gal	1		COMMERCIAL
Oily Sludge Liquid	<b>L</b>	I\$/Gal		RTY COSTS F	
Oily Solids (Non-Haz)	\$42.00	\$/Ton		FULL CAPACI	ΙΥ
Oily liquids (Haz)		i\$/Gal			
Oily Solids (Haz)	<b>L</b>	\$/Ton			
Virgin vehicle fuels	\$0.00	\$/Gal (may assu	me zero cost	with salvage va	
84 8 6 4 4 8 9 9		٦			Lump Sum
Site Safety and Operations Plan	2500				\$2,500
TANKO					
TANKS - DISPOSAL OF INVENTO	<b></b>	-		•	
Total Number of Tanks	L0	i		\$/Sample Floa	
Tank Content Characterization TCLI	P+PCB			\$385	\$0
Maximum Inventors				*	
Maximum Inventory Tank Liquids		0/	D	\$/Gal	Total
Total Number of Tanks	r	% vol. Pumpable	Pump volume	• ,	Disposal Cost
			<u>.</u>	as oily water	<u> </u>
Total tank volume, gal	[0]	<b></b>		•	
vehicle diesel, gal	0	95	0	\$0.00	\$0
Liquid/sludge by Vee Truck		0/		\$/Gal	Total
Liquid/sludge by Vac Truck	r	% vol.Vac Truck	Vac volume	-	Disposal Cost
Total Number of Tanks				as oily sludge	
Total tank volume, gal	L01		. 0	\$1.44	
vehicle diesel, gal		5	0	\$1.44	\$0
Mater Confined	0				
Note: Confined	Space Procedu	res for Tank Ent	-		Total
Solids Removal		% vol. Solids	Tons	\$/Ton	Total
Total Number of Tanks	Z	a	Solius voluitie	•	Disposal Cost
Total tank volume, gal	F0			as oily solids	(
vehicle diesel, gal	0		0		
verlicle dieser, gai	L0	10	0	\$42.00	\$0
<b>Initial Tank Cleaning for 24 Hours</b>	with		Cal	¢(C-I	Tatal
Steam Condensate (as % tank volume		% vol. Vac Truck	Gal	\$/Gal	Total
Total Number of Tanks			vac volume	•	Disposal Cost
Total tank volume, gal	+	<del> </del>		as oily sludge	•
vehicle diesel, gal	<u>i</u>		0	\$1.44	
verlicie diesei, gai	0	<u> 0</u>	0	\$1.44	\$0
			Cal	<b>€</b> /○ □	Tatal
High Pres. Steam Clean (as % tank	( voluma)	% vol. Vac Truck	Gal Vac Volume	\$/Gal	Total
Total Number of Tanks			vac volume		Disposal Cost
Total tank volume, gal	<b>+</b>		_	as oily water	
	L0i		0		
vehicle diesel, gal	01	2	0	\$0.16	\$0
(includes associated piping, appurtar	ices, etc)		0-1	<b>(</b> 10-1	T-4-1
Containment Steam Clean (as % ta	nk volume)	% vol. Vac Truck	Gal Vac Valuma	\$/Gal	Total
Total Number of Tanks	r volume)		vac volume		Disposal Cost
Total tank volume, gal	<b></b>		•	as oily water	
vehicle diesel, gal	0		0	\$0.16 \$0.16	
remote diodol, gai	- 170	. 173	1)	ลบ 1hi	1 3500

				O-1 T	
Container Storage Areas	Number Units		Gal or Tons total volume	Gal or Tons \$/Unit T&D)	
Non-Haz Drums, solids				·	<b>CO 400</b>
·	750		195	` <u></u>	\$8,190
Non-Haz Drums, liquids	250		13750	·	\$2,200
Haz Drums, Liquids	L01		0	`	\$0
Haz Drums, solids	i		0	T	\$0
Roll-off boxes (@20cy/box) Surficial stained soil boxes	ļ3	0	130	' <u>L</u>	\$5,460
Container Characterization - 5%		General cleanup	52	•	\$2,184
Number analytical sample		r <b>boxes</b> (Florida Pre-Burr	n Analysis)	analysis cost \$385.00	\$21,945
Transact analytical campie		(Florida Florida)	17410190107	\$000.00 <u></u>	Ψ21,040 <sub> </sub>
	201	* * * * * * * * * * * * * * * * * * *			
Inventory & Decontamination Ma	•		-		
	Florida 2001	Contractor			
Classification	Prevailing	Billing Rate	Total Cost		
Engineer, Manager	Wage Rate	Multiplier	for 8-hr day		
Project Engineer	21.46	3.5	945.28 600.88		
Haz Waste Laborer	1 13.35	$\frac{3.5}{3.2}$	341.76		
Tiaz Waste Laborei	1 _ 13.33 _ 1	3.2	341.70		
Assume, 5	Work Days for D	Dienoeal of Mater	ial Inventory a	nd	
Labor Crew Size 3	Decontaminatio				
	15000mammatio	ir or rains and o	nte Equipment		
Classification	Man-days	<b>Daily Cost</b>	<b>Total Cost</b>		
Engineer, Mgr @33%time	2	945.28	\$1,560	•	
Project Engineer, Site Supervisor	5	600.88	\$3,004		
Haz Waste Laborer	15	341.76	\$5,126	7	
			\$9,691		\$9,691
Summary Report of Decontamina	tion Activities	L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¢5 000	1 -	<b>CE 000</b>
ounmary Report of Decontaining	don Activities	Lump Cost	\$5,000		\$5,000
	*	Number	Cost	Unit	
Equipment Rental Costs, Supplie	s, Safety, Etc.	5	\$500	Per day	\$2,500
Cleanup Verification Samples (#t	•	5		Per sample	\$1,250
Soil and Groundwater Site Asses	sment	Lump Costs	(Initial Phase	II Reconnaissance	e Level)
Drilling (Geoprob	e) i	\$0	• `	stigative material	•
Analytical (10 samp		<del>\$</del> 0	PPE at Level	~	,
Geoscience Labor	· •	\$0	i`	,	
	Total	\$0			\$0
Note: This item required for Used	11.	mmissioning, n	』 ot for Solid W	aste Permit	الندحد
	70.0	9,			
		<b>T</b> -	stal Dacameri	scionina Cost	\$60,920
		10	nai Decolliiiii	ssioning Cost	<b>₩₩₩</b>
		C	ontingency %		\$9,138
TOTAL SOLID WAST	F PERMIT CLOS	C Ad	ontingency % ministrative %		\$9,138 \$6,092
TOTAL SOLID WAST	E PERMIT CLOSI	C Ad	ontingency % ministrative %		\$9,138

NOTE: Cost Estimate is based upon removal of inventory and the decontamination of the facility to a safe clean condition suitable for further ordinary business usage of the facility or disposition of the facility through ordinary bankruptcy proceedings. The Cost Estimate does not include demolition of any tanks or structures to a greenfield condition.

### USFILTER RECOVERY SERVICES MID-ATLANTIC POMPANO BEACH, FLORIDA FACILITY TABLE 3

#### **OVERALL CLOSURE DECONTAMINATION COST ESTIMATE**

			n na garaga ang ang ang ang ang ang ang ang ang	
Unit Transportation and Disposal		NO		
Oily water	\$0.16 \$/Gal	ALL COSTS REPRESENT COMMERC		
Oily Sludge Liquid	\$1.44 \$/Gal	THIRD PARTY COSTS FOR SITE AT		
Oily Solids (Non-Haz)	\$42.00 \$/Ton	FULI	L CAPACITY	
Oily liquids (Haz)	\$1.25 <b>I</b> \$/Gal			
Oily Solids (Haz)	\$350.00 \$/Ton			
Virgin vehicle fuels	\$0.00 \$/Gal (may ass	ume zero cost with		
	F		Lump Sum	
Site Safety and Operations Plan	10000		\$10,000	
TANKS DIODOGAL OF INVENTO			.57	
TANKS - DISPOSAL OF INVENTO		<b>#</b> /O	annala Flanisia una buma	
Total Number of Tanks	29	2/2	ample Florida pre-burn	
Tank Content Characterization TCLI	P+PCB		\$385 \$11,165	
Maximum Inventory		\$/G	al Total	
Tank Liquids	% vol. Pumpable	**	posal cost Disposal Cost	
Total Number of Tanks	29		oily water	
Total tank volume, gal	415,0001 90	373500	\$0.16 \$59,760	
vehicle diesel, gal	16500	15675	\$0.00 \$0	
•		<b>-</b>	<u> </u>	
		\$/G		
Liquid/sludge by Vac Truck	% vol.Vac Truck		posal cost Disposal Cost	
Total Number of Tanks	29		oily sludge	
Total tank volume, gal		<u>3</u> ! 12450	\$1.44 \$17,928	
vehicle diesel, gal	16500	5 <b>¦</b> 825	\$1.44 <u>\$1,188</u>	
Note: Confine	l Conner Burnardours a few Toule Fund	···· DDE   •····   0 %	Danisinad	
Note. Commed	Space Procedures for Tank En	Tons \$/Te		
Solids Removal	% vol. Solids		posal cost Disposal Cost	
Total Number of Tanks	7 291		oily solids	
Total tank volume, gal	415000	7. 142.345	\$42.00 \$5,978	
vehicle diesel, gal	<del></del>	0	\$42.00 \$0	
Initial Tank Cleaning for 24 Hours	with	Gal \$/G	al Total	
Steam Condensate (as % tank vol	<del>'</del>	k Vac Volume Dis	posal cost Disposal Cost	
Total Number of Tanks	[	_ as o	oily sludge	
Total tank volume, gal	415000	2 <b>;</b> 8300	<b>\$1.44 \$11,952</b>	
vehicle diesel, gal	165001	0	\$1.44 \$0	
		<b>.</b>		
High Brog Steam Class (se 9/ to-	k volumo)	Gal \$/G		
High Pres. Steam Clean (as % tan Total Number of Tanks	k volume) % vol. Vac Truc	· ·	posal cost Disposal Cost	
	_ L		oily water	
Total tank volume, gal	415000	12450	\$0.16 \$1,992 \$0.16 \$53	
vehicle diesel, gal		330	\$0.16 \$53	
(includes associated piping, appurta	nces, etc)	Gal \$/G	al Total	
Containment Steam Clean (as % t	ank volume) % vol. Vac Truc	·	posal cost Disposal Cost	
Total Number of Tanks	<u> </u>	· ·	pily water	
Total tank volume, gal	415000	8300	\$0.16 \$1,328	
vehicle diesel, gal		0	\$0.16 \$0	
<del> </del>		i i	+	

			0-1 T	Oal as Tana	1.5
Container Storage Areas	Number Units		Gal or Tons total volume	Gal or Tons \$/Unit T&D)	
<u> </u>		i	195	· -	\$8,190
Non-Haz Drums, solids	750	1		· · · · · · · · · · · · · · · · · · ·	
Non-Haz Drums, liquids	250		13750	· .	\$2,200
Haz Drums, Liquids	48		2640	· ·	\$3,300
Haz Drums, solids	48		12.48	· • • • • • • • • • • • • • • • • • • •	\$4,368
Roll-off boxes (@20cy/box)	<u></u>	0	130	·	\$5,460
Surficial stained soil boxes  Container Characterization - 5%		General cleanup	52	· ·	\$2,184
				analysis cost	<b>600.070</b>
Number analytical sample	es 62	(Florida Pre-Burr	n Analysis)	\$385.00	\$23,870
Inventory & Decontamination Ma	•				
	Florida 2001	Contractor			
	Prevailing	Billing Rate	Total Cost		
Classification	Wage Rate	<u>Multiplier</u>	for 8-hr day		•
Engineer, Manager	33.76	3.5	945.28		
Project Engineer	21.46	3.5	600.88		
Haz Waste Laborer	13.35	3.2	341.76		
Assume 40	Work Days for	Disposal of Mater	ial Inventory a	nd	
Labor Crew Size 5		on of Tanks and S			
		ar or rainto and o	no Equipmon		
Classification	Man-days	Daily Cost	Total Cost	_	
Engineer, Mgr @33%time	13	945.28	\$12,478		
Project Engineer, Site Supervisor	40	600.88	\$24,035		
Haz Waste Laborer	200	341.76	\$68,352	a (===	
			\$104,865		\$104,865
				i (===	
Summary Report of Decontamina	ition Activities	Lump Cost	\$10,000		\$10,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Number	Cost	Unit	<b>3</b>
Equipment Rental Costs, Supplie	s. Safetv. Etc.	40	\$500	Per day	\$20,000
Cleanup Verification Samples (#t	•	5		Per sample	\$1,250
Ground Tormoution Gumples (#	anks . 5076)	9	Ψ230	ir er sample	Ψ1,230
Soil and Groundwater Site Asses	sment	Lump Costs	(Initial Phase	II Reconnaissance	e Level)
Drilling (Geopro		. — — — <del>-</del> — — — —	_ `	stigative material	•
Analytical (10 sam	•	\$9,000	(PPE at Level	•	diopoodi,
Geoscience Labor	!	\$12,000	['	Σ,	
	Total				\$26,000
Note: This item required for Use			l ot for Solid W	laste Permit	420,000
	er City City Beck	Jimmaaloming, m	ot ioi dolla vi	(B)	
			.4al Dag'	ii O4	6222 024
				ssioning Cost	\$333,031
		C	ontingency %		\$49,955
TOTAL COURS WAS	E DEDMIT OF CO		ministrative %		\$33,303
TOTAL SOLID WAST	E PERMIT CLOS				\$33,303 <b>\$416,289</b>

NOTE: Cost Estimate is based upon removal of inventory and the decontamination of the facility to a safe clean condition suitable for further ordinary business usage of the facility or disposition of the facility through ordinary bankruptcy proceedings. The Cost Estimate does not include demolition of any tanks or structures to a greenfield condition.