

N60200.AR.001922  
NAS CECIL FIELD, FL  
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 312 OIL-WATER SEPARATOR 312-  
OW BASE REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND  
ABOVEGROUND STORAGE TANK GREY SITES NAS CECIL FIELD FL  
6/1/1999  
HARDING LAWSON ASSOCIATES

**CONFIRMATORY SAMPLING REPORT**  
**BUILDING 312, OIL-WATER SEPARATOR 312-OW**  
**BASE REALIGNMENT AND CLOSURE**  
**UNDERGROUND STORAGE TANK AND**  
**ABOVEGROUND STORAGE TANK GREY SITES**  
**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

**Unit Identification Code: N60200**

**Contract No.: N62467-89-D-0317/149**

**Prepared by:**

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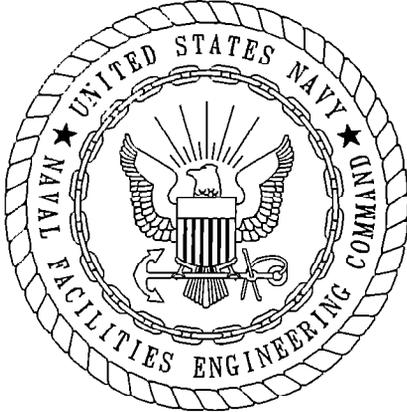
**Prepared for:**

**Department of the Navy, Southern Division**  
**Naval Facilities Engineering Command**  
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**June 1999**

**Revision 0.0**



CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/149 are complete and accurate and comply with all requirements of this contract.

DATE: June 18, 1999

NAME AND TITLE OF CERTIFYING OFFICIAL: Rao Angara  
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Eric A. Blomberg, P.G.  
Project Technical Lead

(DFAR 252.227-7036)

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Jacksonville, Florida

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## GLOSSARY

bls	below land surface
FDEP	Florida Department of Environmental Protection
OVA	organic vapor analyzer
ppm	parts per million
TRPH	total recoverable petroleum hydrocarbons

## 1.0 INTRODUCTION

Harding Lawson Associates, under contract to the Southern Division, Naval Facilities Engineering Command, has completed the site assessment for oil-water separator 312-OW at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations.

Oil-water separator 312-OW is located on the north side of Building 312, a corrosion control hangar (ABB Environmental Services, Inc., 1994) (Figure 1). The oil-water separator was installed in 1988 and has a 900 gallon capacity.

## 2.0 FIELD INVESTIGATION

The confirmatory sampling for oil-water separator 312-OW was initiated in July, 1998 and included

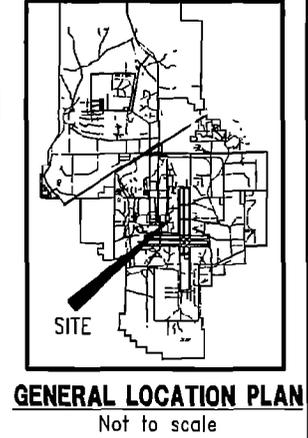
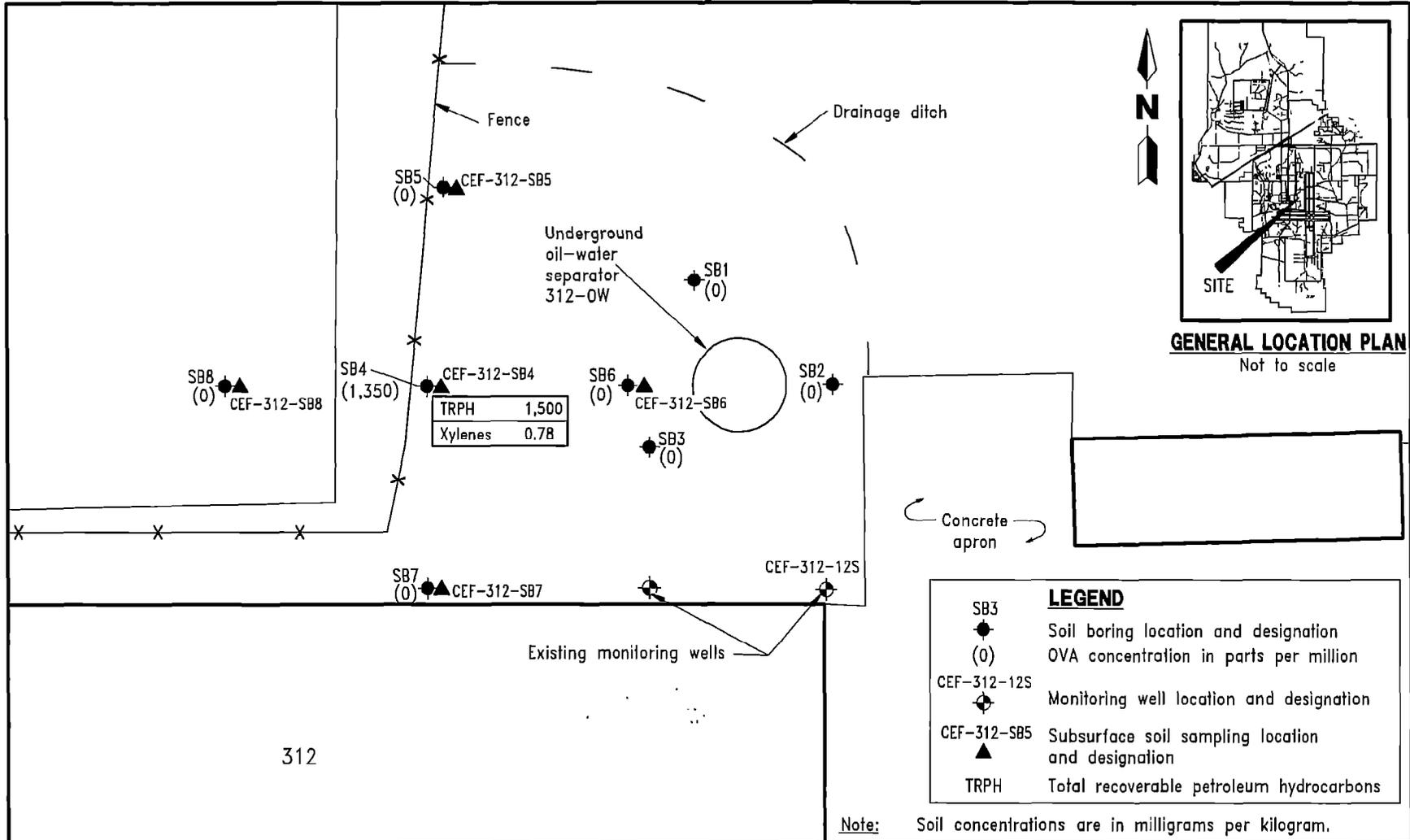
- the advancement of four soil borings to the water table,
- collection and analysis of one groundwater sample and one subsurface soil sample, and
- collection and analysis of four additional subsurface soil samples to delineate the extent of contaminated soil above cleanup target levels.

Soil samples were collected from each boring at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One subsurface soil sample was collected on October 13, 1998 and analyzed for the Used Oil Group parameters. Sample CEF-312-SB4 was collected from 5 feet bls at the location of soil screening boring SB4 which had the highest OVA concentration (1,350 parts per million [ppm]).

Four subsurface soil samples, CEF-312-SB5, CEF-312-SB6, CEF-312-SB7, and CEF-312-SB8 were collected on February 4, 1999 and analyzed for volatile organic compounds and total recoverable petroleum hydrocarbons (TRPH) to delineate the extent of contaminated soil. The samples were collected just above the water table at 3.5 feet bls.

One monitoring well, CEF-312-12S, which was previously installed by NAS Cecil Field as a compliance well was selected as a downgradient well and sampled during the confirmatory sampling. The downgradient location was selected based on the groundwater flow direction at the Day Tank 1 site just to the north. A general site plan indicating the location of the soil borings and monitoring wells is presented on Figure 1.



**FIGURE 1  
MONITORING WELL AND  
SOIL BORING LOCATIONS**

**CONFIRMATORY SAMPLING REPORT  
OIL-WATER SEPARATOR 312-OW**

**NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**

### 3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil (greater than 50 ppm on an OVA) was detected in one of the 8 soil borings advanced during the confirmatory sampling. Soil boring SB4 had the highest OVA concentration (1,350 ppm) at a depth of 5 feet bls. The soil OVA data are summarized in Table 1 and presented on Figure 1.

Total xylenes and TRPH were the only contaminants detected above Florida Department of Environmental Protection (FDEP) soil cleanup target levels in the subsurface soil samples collected for used oil analysis. Trichloroethene was detected in sample CEF-312-SB6 at a concentration above the leachability cleanup target level (0.03 mg/kg) identified in Chapter 62-777, FAC. However, the sample location was resampled and trichloroethene was not detected. Subsurface soil analytical results are summarized in Table 2 and presented in Appendix A. No contaminants were detected above FDEP groundwater cleanup target levels in the groundwater sample collected from monitoring well CEF-312-12S during the confirmatory sampling. A summary of the groundwater analytical results is presented in Table 3. The complete analytical data set is presented in Appendix A.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling of oil-water separator 312-OW indicated the presence of soil contamination at levels above cleanup target levels. The extent of soil contamination has been delineated at the site. No contaminants were detected in groundwater sample CEF-312-12S.

It is recommended that no further action take place at the oil-water separator site until it is removed at which time contaminated soil should be delineated and removed.

**Table 1  
Soil Screening Results**

Confirmatory Sampling Report  
Building 312, Oil-Water Separator 312-OW  
Naval Air Station Cecil Field  
Jacksonville, Florida

Location	OVA Concentration (ppm)			Actual
	Depth (feet bls)	Unfiltered	Filtered	
SB1	1	0	0	0
	3	0	0	170
	5 (wet)	450	0	450
SB2	1	0	0	0
	3	0	0	0
	5 (wet)	120	0	120
SB3	1	0	0	0
	3	0	0	0
	5 (wet)	2,300	0	2,300
SB4	1	0	--	0
	3	0	--	0
	5 (moist)	1,350	0	1,350
	7 (wet)	1,800	0	1,800

Notes: Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.

ppm = parts per million.

bls = below land surface.

refusal = subsurface obstruction encountered during boring advancement; no further samples collected at this location.

wet = soil sample was completely saturated when analyzed.

moist = soil sample was partially saturated when analyzed.

-- = filtered readings were not collected.

**Table 2**  
**Summary of Subsurface Soil Analytical Detections**

Confirmatory Sampling Report  
Building 312, Oil-Water Separator 312-OW  
Naval Air Station Cecil Field  
Jacksonville, Florida

Compound	CEF-312-SB4 (5 feet bls; OVA = 170 ppm)	CEF-312-SB5 (3.5 feet bls; OVA = 0 ppm)	CEF-312-SB6 (3.5 feet bls; OVA = 0 ppm)	OCEF-312-SB7 (3.5 feet bls; OVA = 0 ppm)	CEF-312-SB8 (3.5 feet bls; OVA = 0 ppm)	Soil Cleanup Target Levels <sup>1</sup>
<b><u>Volatile Organic Aromatics (USEPA Method 8020) (mg/kg)</u></b>						
Xylenes	0.780	ND	ND	ND	ND	290/0.3
Trichloroethene	ND	0.013	0.046/ND <sup>2</sup>	0.008	0.0063	NA
<b><u>Polynuclear Aromatic Hydrocarbons (USEPA Method 8310) (mg/kg)</u></b>						
Naphthalene	0.6	NS	NS	NS	NS	1,000/1
2-Methylnaphthalene	1.4	NS	NS	NS	NS	NA
<b><u>Total Recoverable Petroleum Hydrocarbons (TRPH) (FL-PRO) (mg/kg)</u></b>						
TRPH	1,500	ND	38	ND	ND	350/340
<b><u>Inorganic Analytes (mg/kg)</u></b>						
Arsenic	0.6 J	NS	NS	NS	NS	0.8/TCLP
Chromium	10	NS	NS	NS	NS	290/TCLP
Lead	10 J	NS	NS	NS	NS	500/TCLP

<sup>1</sup> Chapter 62-770, Florida Administrative Code: Direct Exposure I/Leachability, Table V.

<sup>2</sup> Sample location CEF-312-SB6 was resampled due to the presence of trichloroethene above the cleanup target level.

USEPA = U.S. Environmental Protection Agency.

mg/kg = milligrams per kilogram.

ND = not detected.

NS = not sampled.

NA = not available.

FL-PRO = Florida-Petroleum Residual Organics.

TCLP = toxicity characteristic leaching procedure.

**Table 3  
Summary of Groundwater Analytical Results**

Confirmatory Sampling Report  
Building 312, Oil-Water Separator 312-OW  
Naval Air Station Cecil Field  
Jacksonville, Florida

Compound	CEF-312-12S	Groundwater Cleanup Target Levels <sup>1</sup>
<p><b><u>Volatile Organic Aromatics (USEPA Method 601/602) (µg/l)</u></b> Not detected.</p> <p><b><u>Polynuclear Aromatic Hydrocarbons (USEPA Method 8270) (µg/l)</u></b> Not detected.</p> <p><b><u>Total Recoverable Petroleum Hydrocarbons (TRPH) (FL-PRO) (mg/l)</u></b> Not detected</p> <p><b><u>Inorganic Analytes (µg/l)</u></b> Not detected.</p>		
<p><sup>1</sup> Chapter 62-770, Florida Administrative Code.</p> <p>USEPA = U.S. Environmental Protection Agency. µg/l = micrograms per liter. FL-PRO = Florida Petroleum Residual Organics. mg/l = milligrams per liter.</p>		

## REFERENCE

ABB Environmental Services, Inc. (ABB-ES). 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).

**APPENDIX A**  
**ANALYTICAL DATA**

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
 SUBSURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 11119

Lab Sample Number:	JR36658		JR52916		JR52917		JR66726		
Site	UST GREY		UST GREY		UST GREY		UST GREY		
Locator	CEF-312-SB4		CEF-312-SB5		CEF-312-SB6		CEF-312-SB6		
Collect Date:	13-OCT-98		04-FEB-99		04-FEB-99		11-MAY-99		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

BRAC VOLATILES

1,1,1-Trichloroethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,1,2,2-Tetrachloroethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,1,2-Trichloroethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,1-Dichloroethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,1-Dichloroethene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,2-Dichloroethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
1,2-Dichloropropane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Benzene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Bromodichloromethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Bromoform	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Bromomethane	120 U	ug/kg	120	12 U	ug/kg	12	11 U	ug/kg	11	11 U	ug/kg	11
Carbon tetrachloride	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Chlorobenzene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Chloroethane	120 U	ug/kg	120	12 U	ug/kg	12	11 U	ug/kg	11	11 U	ug/kg	11
Chloroform	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Chloromethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Dibromochloromethane	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Ethyl benzene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Methylene chloride	120 U	ug/kg	120	29 U	ug/kg	29	28 U	ug/kg	28	26 U	ug/kg	26
Tetrachloroethene	120 U	ug/kg	120	17 U	ug/kg	17	17 U	ug/kg	17	16 U	ug/kg	16
Toluene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
Trichloroethene	120 U	ug/kg	120	13	ug/kg	6	46	ug/kg	6	5 U	ug/kg	5
Vinyl chloride	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
cis-1,3-Dichloropropene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
m,p-Xylene	360 J	ug/kg	120	12 U	ug/kg	12	11 U	ug/kg	11	11 U	ug/kg	11
o-Xylene	420	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
trans-1,2-Dichloroethene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5
trans-1,3-Dichloropropene	120 U	ug/kg	120	6 U	ug/kg	6	6 U	ug/kg	6	5 U	ug/kg	5

U = NOT DETECTED J = ESTIMATED VALUE  
 UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
 R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
 SUBSURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 11119

Lab Sample Number:	JR52918		JR52914			
Site	UST GREY		UST GREY			
Locator	CEF-312-SB7		CEF-312-SB8			
Collect Date:	04-FEB-99		03-FEB-99			
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

BRAC VOLATILES

1,1,1-Trichloroethane	6 U	ug/kg	6	5 U	ug/kg	5
1,1,2,2-Tetrachloroethane	6 U	ug/kg	6	5 U	ug/kg	5
1,1,2-Trichloroethane	6 U	ug/kg	6	5 U	ug/kg	5
1,1-Dichloroethane	6 U	ug/kg	6	5 U	ug/kg	5
1,1-Dichloroethene	6 U	ug/kg	6	5 U	ug/kg	5
1,2-Dichloroethane	6 U	ug/kg	6	5 U	ug/kg	5
1,2-Dichloropropane	6 U	ug/kg	6	5 U	ug/kg	5
Benzene	6 U	ug/kg	6	5 U	ug/kg	5
Bromodichloromethane	6 U	ug/kg	6	5 U	ug/kg	5
Bromoform	6 U	ug/kg	6	5 U	ug/kg	5
Bromomethane	12 U	ug/kg	12	11 U	ug/kg	11
Carbon tetrachloride	6 U	ug/kg	6	5 U	ug/kg	5
Chlorobenzene	6 U	ug/kg	6	5 U	ug/kg	5
Chloroethane	12 U	ug/kg	12	11 U	ug/kg	11
Chloroform	6 U	ug/kg	6	5 U	ug/kg	5
Chloromethane	6 U	ug/kg	6	5 U	ug/kg	5
Dibromochloromethane	6 U	ug/kg	6	5 U	ug/kg	5
Ethyl benzene	6 U	ug/kg	6	5 U	ug/kg	5
Methylene chloride	29 U	ug/kg	29	27 U	ug/kg	27
Tetrachloroethene	18 U	ug/kg	18	16 U	ug/kg	16
Toluene	6 U	ug/kg	6	5 U	ug/kg	5
Trichloroethene	8	ug/kg	6	6.3	ug/kg	5
Vinyl chloride	6 U	ug/kg	6	5 U	ug/kg	5
cis-1,3-Dichloropropene	6 U	ug/kg	6	5 U	ug/kg	5
m,p-Xylene	12 U	ug/kg	12	11 U	ug/kg	11
o-Xylene	6 U	ug/kg	6	5 U	ug/kg	5
trans-1,2-Dichloroethene	6 U	ug/kg	6	5 U	ug/kg	5
trans-1,3-Dichloropropene	6 U	ug/kg	6	5 U	ug/kg	5

U = NOT DETECTED J = ESTIMATED VALUE  
 UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
 R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
 SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 11120

Lab Sample Number: JR36658  
 Site: UST GREY  
 Locator: CEF-312-SB4  
 Collect Date: 13-OCT-98

VALUE QUAL UNITS DL

BRAC SEMIVOLATILES

Phenol	400 U	ug/kg	400
bis(2-Chloroethyl) ether	400 U	ug/kg	400
1,3-Dichlorobenzene	400 U	ug/kg	400
1,4-Dichlorobenzene	400 U	ug/kg	400
1,2-Dichlorobenzene	400 U	ug/kg	400
N-Nitroso-di-n-propylamine	400 U	ug/kg	400
Nitrobenzene	400 U	ug/kg	400
Isophorone	400 U	ug/kg	400
2-Methylphenol	400 U	ug/kg	400
2-Nitrophenol	400 U	ug/kg	400
2,4-Dimethylphenol	400 U	ug/kg	400
bis(2-Chloroethoxy) methane	400 U	ug/kg	400
2,4-Dichlorophenol	400 U	ug/kg	400
1,2,4-Trichlorobenzene	400 U	ug/kg	400
Naphthalene	600	ug/kg	400
Hexachlorobutadiene	400 U	ug/kg	400
Hexachlorocyclopentadiene	400 U	ug/kg	400
Hexachloroethane	400 U	ug/kg	400
4-Chloro-3-methylphenol	400 U	ug/kg	400
2-Methylnaphthalene	1400	ug/kg	400
2,4,6-Trichlorophenol	400 U	ug/kg	400
2-Chloronaphthalene	400 U	ug/kg	400
Dimethylphthalate	400 U	ug/kg	400
Acenaphthylene	400 U	ug/kg	400
2,4-Dinitrophenol	2000 U	ug/kg	2000
3- & 4-Methylphenol (2)	400 U	ug/kg	400
4-Nitrophenol	400 U	ug/kg	400
2,4-Dinitrotoluene	400 U	ug/kg	400
Diethylphthalate	400 U	ug/kg	400
4-Chlorophenyl-phenylether	400 U	ug/kg	400
Fluorene	400 U	ug/kg	400
4,6-Dinitro-2-methylphenol	1200 U	ug/kg	1200
4-Bromophenyl-phenylether	400 U	ug/kg	400
Hexachlorobenzene	400 U	ug/kg	400
Pentachlorophenol	400 U	ug/kg	400
Phenanthrene	400 U	ug/kg	400
Pyrene	400 U	ug/kg	400
Anthracene	400 U	ug/kg	400
Acenaphthene	400 U	ug/kg	400
Di-n-butylphthalate	400 U	ug/kg	400
Fluoranthene	400 U	ug/kg	400
3,3-Dichlorobenzidine	800 U	ug/kg	800
Benzo (a) anthracene	400 U	ug/kg	400
Carbazole	400 U	ug/kg	400
Chrysene	400 U	ug/kg	400
bis(2-Ethylhexyl) phthalate	400 U	ug/kg	400
Di-n-octylphthalate	400 U	ug/kg	400
Benzo (b) fluoranthene	400 U	ug/kg	400
Benzo (k) fluoranthene	400 U	ug/kg	400
Benzo (a) pyrene	400 U	ug/kg	400

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 11120

Lab Sample Number: JR36658  
Site: UST GREY  
Locator: CEF-312-SB4  
Collect Date: 13-OCT-98

VALUE QUAL UNITS DL

Indeno (1,2,3-cd) pyrene	400 U	ug/kg	400
Dibenzo (a,h) anthracene	400 U	ug/kg	400
Benzo (g,h,i) perylene	400 U	ug/kg	400
2,6-Dinitrotoluene	400 U	ug/kg	400
4-Chloroaniline	400 U	ug/kg	400
2-Nitroaniline	400 U	ug/kg	400
3-Nitroaniline	400 U	ug/kg	400
4-Nitroaniline	400 U	ug/kg	400

U = NOT DETECTED J = ESTIMATED VALUE  
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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
SUBSURFACE SOIL -- INORGANICS -- REPORT REQUEST NO. 11122

Lab Sample Number: JR36658  
Site: UST GREY  
Locator: CEF-312-SB4  
Collect Date: 13-OCT-98  
VALUE QUAL UNITS DL

RCRA 8

Arsenic	.6 J	mg/kg	.6
Barium	24 U	mg/kg	24
Cadmium	1 U	mg/kg	1
Chromium	10	mg/kg	1
Lead	10 J	mg/kg	8
Mercury	.01 U	mg/kg	.01
Selenium	2 U	mg/kg	2
Silver	2 U	mg/kg	2

U = NOT DETECTED J = ESTIMATED VALUE  
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
 SUBSURFACE SOIL -- TRPH -- REPORT REQUEST NO. 11121

Lab Sample Number:	JR36658	JR52916	JR52917	JR52918							
Site	UST GREY	UST GREY	UST GREY	UST GREY							
Locator	CEF-312-SB4	CEF-312-SB5	CEF-312-SB6	CEF-312-SB7							
Collect Date:	13-OCT-98	04-FEB-99	04-FEB-99	04-FEB-99							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

FLA PRO												
TPH C8-C40	1500	mg/kg	40	7.7 U	mg/kg	7.7	38	mg/kg	7.3	7.8 U	mg/kg	7.8

U = NOT DETECTED J = ESTIMATED VALUE  
 UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
 R = RESULT IS REJECTED AND UNUSABLE

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NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
SUBSURFACE SOIL -- TRPH -- REPORT REQUEST NO. 11121

Lab Sample Number: JR52914  
Site: UST GREY  
Locator: CEF-312-SB8  
Collect Date: 03-FEB-99  
VALUE QUAL UNITS DL

---

FLA PRÓ  
TPH C8-C40                      7.1 U    mg/kg            7.1

U = NOT DETECTED J = ESTIMATED VALUE  
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- CEF-312-SB6  
SUBSURFACE SOIL -- ANALYTICAL DATA -- REPORT REQUEST NO. 11113

Lab Sample Number: JR66726  
Site: UST GREY  
Locator: CEF-312-SB6  
Collect Date: 11-MAY-99

VALUE	QUAL	UNITS	DL
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Trichloroethene	5	U	ug/kg	5
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U = NOT DETECTED J = ESTIMATED VALUE  
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 312  
GROUNDWATER -- ANALYTICAL DATA -- REPORT REQUEST NO. 10575

Lab Sample Number: JR42201  
Site: UST GREY  
Locator: CEF-312-12S  
Collect Date: 20-NOV-98

VALUE QUAL UNITS DL

BTEX AND DICHLOROBENZENES

Benzene	1 U	ug/l	1
Ethylbenzene	1 U	ug/l	1
Toluene	1 U	ug/l	1
Xylenes (total)	1 U	ug/l	1
Chlorobenzene	1 U	ug/l	1
1,2-Dichlorobenzene	1 U	ug/l	1
1,3-Dichlorobenzene	1 U	ug/l	1
1,4-Dichlorobenzene	1 U	ug/l	1

PAHs

Acenaphthene	.5 U	ug/l	.5
Acenaphthylene	1 U	ug/l	1
Anthracene	.05 U	ug/l	.05
Benzo (a) anthracene	.05 U	ug/l	.05
Benzo (b) fluoranthene	.1 U	ug/l	.1
Benzo (k) fluoranthene	.05 U	ug/l	.05
Benzo (a) pyrene	.05 U	ug/l	.05
Chrysene	.05 U	ug/l	.05
Dibenzo (a,h) anthracene	.1 U	ug/l	.1
Fluoranthene	.1 U	ug/l	.1
Fluorene	.1 U	ug/l	.1
Indeno (1,2,3-cd) pyrene	.05 U	ug/l	.05
Benzo (g,h,i) perylene	.1 U	ug/l	.1
Naphthalene	.5 U	ug/l	.5
Phenanthrene	.05 U	ug/l	.05
Pyrene	.05 U	ug/l	.05
1-Methylnaphthalene	.5 U	ug/l	.5
2-Methylnaphthalene	.5 U	ug/l	.5

FLA PRO

TPH C8-C40	.2 U	mg/l	.2
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RCRA 8

Arsenic	.01 U	mg/l	.01
Barium	.1 U	mg/l	.1
Cadmium	.001 U	mg/l	.001
Chromium	.01 U	mg/l	.01
Lead	.005 U	mg/l	.005
Mercury	.0002 U	mg/l	.0002
Selenium	.01 U	mg/l	.01
Silver	.01 U	mg/l	.01

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