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NAS CECIL FIELD, FL
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SOURCE REMOVAL REPORT FOR CONTAMINATED SOIL REMOVAL AT JP-5 PIPELINE
WITH TRANSMITTAL LETTER NAS CECIL FIELD FL
11/16/2000
CH2MHILL CONSTRUCTORS INC



CH2MHILL
Constructors, Inc.

CH2M HILL

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November 16, 2000

Mr. Nick Ugolini
Southern Division, Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, SC 29419-9010

RE: Contract No. N62467-98-D-0995
Contract Task Order 0002 – Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Source Removal Report for the Contaminated Soil Removal at JP-5 Pipeline

Dear Mr. Ugolini:

CH2M HILL Constructors, Inc. (CCI) is pleased to provide one copy of the enclosed Source Removal Report for the Contaminated Soil Removal at JP-5 Pipeline at NAS Cecil Field in Jacksonville, Florida.

If you have any questions or comments regarding the enclosed, please do not hesitate to contact me at (904) 777-4812.

Sincerely,

CH2M HILL Constructors, Inc.

Samuel M. Ross
Project Manager

cc: Jimmy Jones, SoDiv (w/o)
Larry Blackburn, ROICC
Mike Deliz, FDEP
Mark Speranza, TetraTech NUS (2 copies)
Paul Calligan, TetraTech NUS
CCI Project File No. 149152

Source Removal Report Contaminated Soil Removal at JP-5 Pipeline

Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0002

Submitted to:

**U.S. Naval Facilities
Engineering Command
Southern Division**

Prepared by:



115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

November 2000

**Source Removal Report
Contaminated Soil Removal at JP-5 Pipeline**

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Engineering Command
Southern Division**

Prepared by:



CH2MHILL
Constructors, Inc.

November 2000

Prepared/Approved By:

Samuel M. Ross
Samuel M. Ross, Project Manager

11/10/00
Date

Approved By:

R. Scott Newman
R. Scott Newman, Program Manager

16 NOV 2000
Date

Client Acceptance:

[Signature]
U.S. Navy Responsible Authority

1-3-01
Date

Distribution List

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Certification of Technical Data Conformity (November 2000)

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002 are complete and accurate and comply with all requirements of this contract.

Date: _____

Name and Title of Certifying Official:

Sam Ross
Project Manager



Certification of Completion

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the removal of contaminated soil at the JP-5 Pipeline, delivered under Contract No. N62467-98-D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order (CTO) No. 0002, has been completed, inspected, and tested, and is in compliance with the contract.

Project QC Manager

Date

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- A Photographs
- B Copies of Soil Manifests
- C Certificate of Recycle
- D Clean Fill Certification
- E Analytical Laboratory Reports for Confirmatory Soil Samples
- F Well Construction Logs
- G Analytical Laboratory Reports for Confirmatory Groundwater Sample

Acronyms

bls	below land surface
CCI CTO	CH2M HILL Constructors Inc. Contract Task Order
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FID	flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
GC	Groundwater Criteria (per FAC Chapter 62-770 and 62-777)
HLA	Harding Lawson Associates
KAG	Kerosene Analytical Group
NADSC	Natural Attenuation Default Source Concentrations (per FAC Chapter 62-770 and 62-777)
NAS NAVFAC	Naval Air Station Naval Facilities Engineering Command
OVA	Organic Vapor Analyzer
PAHs ppm	Polynuclear Aromatic Hydrocarbons parts per million
SCTLs	soil cleanup target levels per Chapter 62-770 and 62-777 F.A.C.
TRPH	total recoverable petroleum hydrocarbons
UST	underground storage tank
VOCs	volatile organic compounds

Source Removal Report Requirements – *Checklist*

Per FAC 62-770.300(3) the Source Removal Report shall contain the following information in detail, as applicable:

Site Name: JP-5 Pipeline

Date(s) of Source Removal: 11/8/99 - 11/11/99

Required Information	Response
1. Volume of product that was discharged, if known	<i>Unknown</i>
2. Volume of free product and the volume of groundwater recovered	<i>None</i>
3. Volume of contaminated soil excavated and treated or properly disposed	<i>48.23 tons of soil excavated and disposed of offsite Refer to section 2.3.2 for details</i>
4. Disposal or recycling methods for free product and contaminated soil	<i>Contaminated soils recycled at Soil Safe Technologies, St. Mary's, Georgia</i>
5. Disposal methods for other contaminated media	<i>No other contaminated media</i>
6. Scaled site map (including a graphical representation of the scale used) showing location(s) of free product recovered and the area of soil removed or treated and the approximate locations of all samples taken	<i>See Figure 2-1</i>
7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made	<i>Monitoring wells were not measured for free product prior to excavation</i>
8. Type of field screening instrument or method used	<i>OVA/FID</i>
9. Dimensions of the excavation(s) and location(s), integrity, capacities and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed	<i>Excavation areas: (see Figure 2-1) North: 5 feet long by 5 feet wide by 6 feet deep South: 17 feet long by 13 feet wide by 6 feet deep No fuel piping was removed at the direction of the Navy</i>
10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks	<i>Not Applicable. This was not a UST site.</i>
11. Table indicating the identification, depth and field soil screening results of each sample collected	<i>See Table 2-2</i>
12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information	<i>Depth to groundwater approximately 5 feet bls. Noted by well installation on 10/15/99 (See Section 2.2.1)</i>
13. Type of petroleum or petroleum products discharged	<i>JP-5 Jet Fuel</i>
14. Documentation confirming the proper treatment or proper disposal of the free product or contaminated soil, including disposal manifests for free product, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed	<i>See Table 2-1 and Appendix C</i>
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	<i>Not Applicable. Soil disposed of offsite</i>

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (Southern Division, NAVFAC) to perform the excavation of petroleum-contaminated soil associated with the JP-5 pipeline running parallel with “A” Avenue at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida and prepare a Source Removal Report. The source removal was conducted in accordance with the Florida Department of Environmental Protection (FDEP) Petroleum Contamination Site Cleanup rule 62-770, Florida Administrative Code (FAC).

The scope of services for excavation of petroleum-contaminated soils at the JP-5 pipeline is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998a) and the Work Plan Addendum No. 1, Revision 01 (CCI, 1998b). This work was authorized under the Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002.

1.1 Site Background

The site contained soil contamination in two locations adjacent to the underground pipeline running parallel to “A” Avenue on the eastern side of the street. The pipeline was installed during the 1950s and was used to convey fuel from NAS Jacksonville to the North Tank Fuel Farm, the South Tank Fuel Farm, the Jet Engine Test Cell, Day Tanks 1 and 2. The contaminated soil associated with this source removal was specifically located around a valve box located approximately 150 feet due west from the former Day Tank 1, and at another isolated area around monitoring well CEF-PIPE-3S, located 300 feet north of the valve box.

1.2 Project Objectives

The primary objective of the soil excavation that was performed was to remove petroleum-contaminated soils that exceeded the Soil Cleanup Target Levels (SCTLs) outlined in FAC 62-770 and 62-777. FDEP allows the use of organic vapor analyzer (OVA) headspace analysis as a screening tool in evaluating whether soil samples exceed the SCTLs. Soils exhibiting a volatile organic compound (VOC) concentration of greater than 50 parts per million (ppm) were considered to be excessively contaminated and were expected to contain constituents exceeding the SCTLs. Soils were excavated until VOC concentrations of less than 50 ppm were achieved, then confirmatory sampling for the Kerosene Analytical Group (KAG) was performed. No OVA concentrations above 50 ppm were noted in soil samples collected above the water table from the northern excavation, therefore a minimal (5 feet by 5 feet) area was excavated prior to confirmatory sample collection. The KAG analyses for soils includes VOCs by Environmental Protection Agency (EPA) Method 8021, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, and total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Residual Organic (FL-PRO) method.

2.0 Source Removal Activities

A source removal was conducted at two locations along the JP-5 pipeline during the period of November 8 to November 11, 1999. A combined total of 48.23 tons of petroleum-contaminated soil was excavated from the two locations and disposed offsite. No free product was found during the excavation activities. Photographs showing the site during and after the source removal are presented in Appendix A.

2.1 Site Preparation

In preparation for excavation, all utilities were marked out by the base maintenance contractor and Sunshine State One Call of Florida. A bank of concrete-encased electrical lines on the southern boundary of the south excavation was the only active utility encountered during the excavation. The location of the electrical lines is depicted on Figure 2-2 in Section 2.2.1.2.

2.2 Soil Excavation and Disposal

2.2.1 Soil Excavation

2.2.1.1 Northern Excavation

Soils were excavated based on the limits of the excessively contaminated soil delineated prior to the excavation with soil borings. The soil boring headspace results are tabulated in Table 2-2 in Section 2.3.1. The soil was excavated to 1 foot below the water table, to a depth of approximately 6 feet below land surface (bls). The depth to groundwater was determined by visual inspection during the excavation.

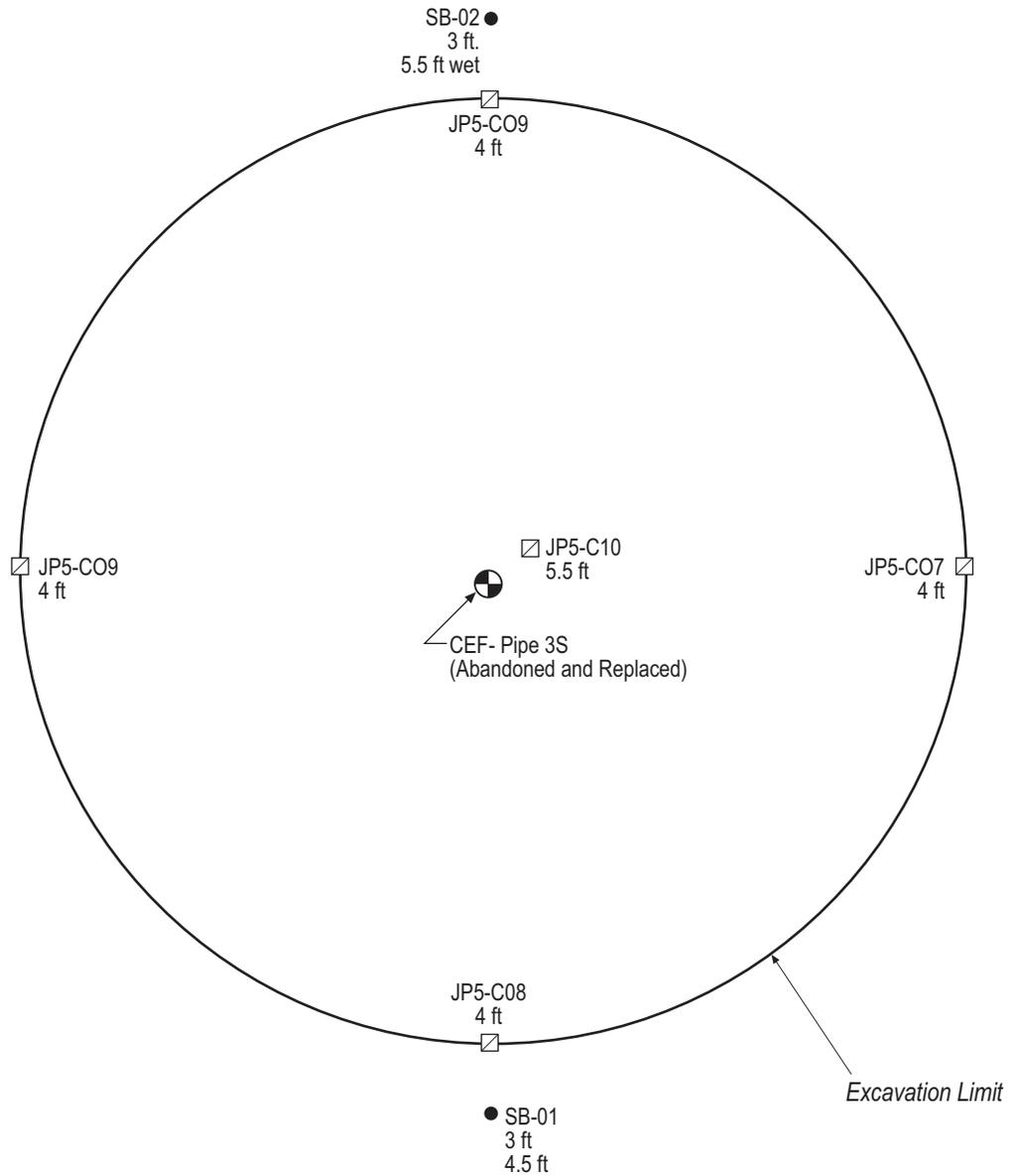
The soil was excavated using a backhoe and was stockpiled on visqueen prior to being loaded into trucks for offsite disposal. The excavation area was circular in shape, and was approximately 5 feet in diameter by 6 feet deep, corresponding to approximately 4 cubic yards of soil. The excavation area is shown on Figure 2-1.

Monitoring well CEF-PIPE-3S was abandoned and partially removed during source removal activities. This well was installed to a total depth of 14 feet bls and was screened from 4 to 14 feet. The well was removed because it was located within the zone of soil that was to be excavated. The well was replaced subsequent to source removal activities as described in Section 2.3.3.

2.2.1.2 Southern Excavation

Soil was excavated south and east of the valve box based upon the limits of excessively contaminated soil that was delineated using soil borings. The soil was excavated to 1 foot below the water table, to a depth of approximately 6 feet bls. The depth to groundwater was determined by visual inspection during the excavation.

"A" Avenue



LEGEND

- Monitoring Well Location
- JP5-C08 Confirmation Sample Location and Designation
- SB-01 Soil Boring Location and Designation

N Scale: 1"= 1'

Figure 2-1
JP-5 Pipeline Contaminated Soil Removal
Northern Excavation
NAS Cecil Field, Jacksonville, Florida

The soil was excavated using a backhoe and was stockpiled on visqueen prior to being loaded into trucks. The excavation area was approximately 17 feet long, 13 feet wide, and 6 feet deep (average), corresponding to approximately 35 cubic yards of soil after subtracting the volume occupied by the valve box. The excavation area is shown on Figure 2-2.

Monitoring well CEF-PIPE-1S was abandoned and partially removed during source removal activities. This well was installed to a total depth of 14 feet bls and was screened from 4 to 14 feet. The well was removed because it was located within the zone of soil that was to be excavated. It was replaced subsequent to source removal activities as described in Section 2.3.3.

2.2.2 Soil Transportation and Disposal

The petroleum-contaminated soil was transported offsite by truck to the Soil Safe Technologies, Inc., soil treatment facility in St. Marys, Georgia. A summary of the manifests is presented in Table 2-1 and copies of the manifests are presented in Appendix B. Soil Safe Technologies, Inc. provided a soil Certificate of Recycle (Appendix C) for 25,560.4 tons of petroleum-contaminated soil generated from several source removal excavations at NAS Cecil Field. This amount includes soil shipments documented on Manifests 6110001 through 6111141. The 48.23 tons of soil excavated during the JP-5 soil excavation, documented on Manifests 6111137 through 6111139, were included in the amount that is accounted for by the Certificate of Recycle in Appendix C.

TABLE 2-1
Summary of Manifest for Soil Disposal

Date	Truck #	Company	Manifest #	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
11/10/99	768	Pritchett	6111137	74,940	34,580	40,360	20.18
11/10/99	396	Pritchett	6111138	74,260	29,920	44,340	22.17
11/11/99	396	Pritchett	6111139	73,120	61,360 ¹	11,760	5.88

¹ Represents weight when already partially loaded with petroleum-contaminated soil from another site at the time TARE weight was recorded

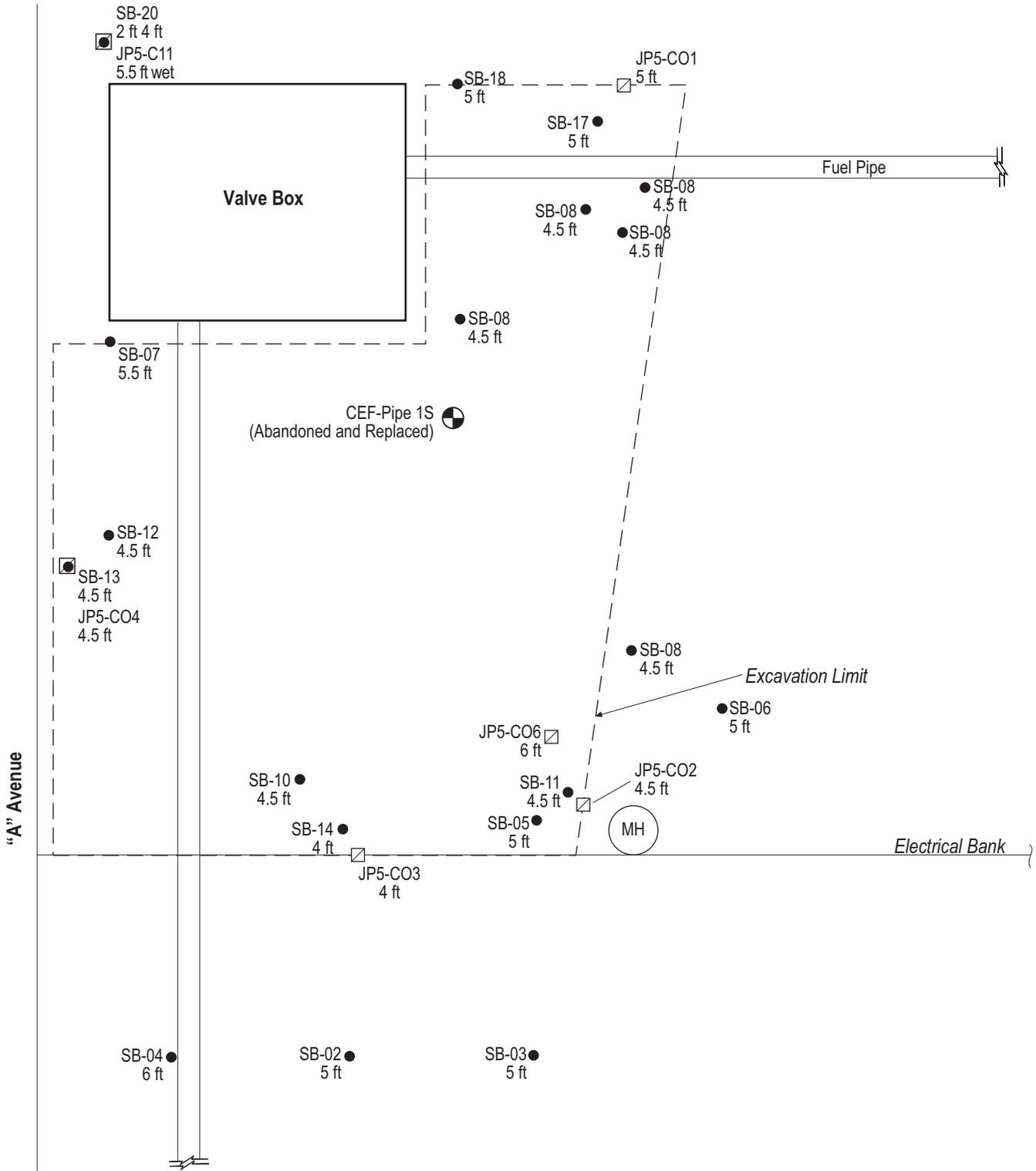
2.2.3 Backfilling and Site Restoration

The material used to backfill the excavation was a combination of excavated soil and clean fill brought in from a borrow pit operated by the Marietta Sand Corporation. A copy of the letter certifying that the material was clean fill is presented in Appendix D.

The backfilled area was leveled to match the existing grade and seeded with a mixture of rye and bahia grass.

2.3 Sampling And Analysis

Soil samples were collected from the walls of both of the excavations at depths of 4 to 5 feet bls and from the floor. The sampling locations are shown on Figures 2-1 and 2-2.



LEGEND

- Monitoring Well
- Confirmation Sample Location
- Soil Boring Location
- Manhole

N
Scale: 1"= 3'

Figure 2-2
 JP-5 Pipeline Contaminated Soil Removal
 Southern Excavation
 NAS Cecil Field, Jacksonville, Florida

2.3.1 Headspace Analysis

Soil samples collected from soil borings advanced prior to the excavation were screened using an OVA equipped with a flame ionization detector (FID) in accordance with the procedures outlined in 62-770.200(8) FAC. A methane filter was used to subtract methane. See Section 1.2 for details of the screening methodology. The results of the headspace analyses are shown in Tables 2-2 and 2-3.

TABLE 2-2
Summary of Headspace Screening Results
JP-5 Pipeline Northern Excavation

Sample Location (see Figure 2-1)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Net (ppm)
SB-01	3	0	--	0
SB-01	4.5	15	10	5
SB-02	3	0	--	0
SB-02	5.5	220	90	130

TABLE 2-3
Summary of Headspace Screening Results
JP-5 Pipeline Southern Excavation

Sample Location (see Figure 2-2)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Net (ppm)
SB-1	5	32	10	22
SB-2	5	8	--	8
SB-3	5.5	55	20	35
SB-4	5	150	120	30
SB-5	5	0	--	0
SB-6	5.5	0	--	0
SB-7	4.5	>1,000	900	>100
SB-8	4.5	550	280	270
SB-9	4.5	15	6	9
SB-10	4.5	320	140	180
SB-11	4.5	8	--	8
SB-12	4.5	340	110	230
SB-13	4.5	90	30	60
SB-14	4	8	--	8
SB-15	4.5	160	100	60
SB-16	5	70	36	34
SB-17	5	100	46	54
SB-18	5	10	--	10
SB-19	7.5	65	7	58
SB-20	2	0	--	0
SB-20	4	15	6	9
SB-20	5.5	180	95	85

2.3.2 Laboratory Analyses of Soil Samples

A total of five soil samples were collected from the northern excavation and a total of six soil samples were collected from the southern excavation for KAG analyses. The sample locations are shown on Figures 2-1 and 2-2, respectively. The analytical results are summarized in Tables 2-4 and 2-5 and are described in Section 3.0. Analytical laboratory reports are provided in Appendix E.

TABLE 2-4
Summary of KAG Analyses for Soil

Sample Location	North Wall	East Wall	South Wall	West Wall	Bottom	SCTL (Leachability)
Depth (feet)	4	4	4	4	5.5	--
Sample ID	JP5 C-06	JP5 C-07	JP5 C-08	JP5 C-09	JP5 C-10	--
Site	JP5	JP5	JP5	JP5	JP5	--
Date	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	--
TRPH	ND	ND	ND	ND	ND	340
Benzo (b) Fluoranthene	0.012	ND	ND	ND	ND	3.2
Fluoranthene	0.088	ND	ND	ND	ND	32000
Phenanthrene	0.06	ND	ND	ND	ND	1200
Pyrene	0.08	ND	ND	ND	ND	250
Naphthalene	0.14	ND	ND	ND	ND	880
1 Methyl-naphthalene	0.77	ND	ND	ND	ND	2.2
2 Methyl-naphthalene	0.48	ND	ND	ND	ND	6.1
Ethylbenzene	0.0005	ND	ND	ND	0.0003	0.5
Toluene	0.0014	0.0009	0.0008	0.001	0.0013	0.2
Xylenes	0.0018	0.0008	0.0005	0.0007	0.0015	0.2

TABLE 2-5
Summary of KAG Analyses for Soil

Sample Location	Northeast Corner	Southeast Corner	South Wall	West Wall	Bottom	Northwest Corner	SCTL (Leachability)
Depth (feet)	5	4.5	4	4.5	6	5.5	--
Sample ID	JP5 C-01	JP5 C-02	JP5 C-03	JP5 C-04	JP5 C-05	JP5 C-11	--
Site	JP5	JP5	JP5	JP5	JP5	JP5	--
Date	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	--
TRPH	ND	6	30	5	ND	810	340
Anthracene	ND	ND	ND	ND	ND	0.33	2.1
Benzo (a) Anthracene	ND	ND	ND	ND	ND	0.14	27
Benzo (a) Pyrene	ND	ND	0.012	ND	ND	0.039	2500
Benzo (b) Fluoranthene	ND	ND	0.014	ND	ND	0.078	3.2
Benzo (k) Fluoranthene	ND	ND	ND	ND	ND	0.016	8
Chrysene	ND	ND	ND	ND	ND	0.11	10
Fluoranthene	ND	ND	0.017	ND	0.017	1.2	32000
Fluorene	ND	ND	ND	ND	ND	0.3	25
Indeno (123cd) Pyrene	ND	ND	0.021	ND	ND	0.026	30
Phenanthrene	ND	ND	ND	ND	ND	0.73	1200
Pyrene	ND	ND	ND	ND	ND	1.5	250
Naphthalene	ND	ND	ND	0.098	ND	0.4	880
1 Methyl-naphthalene	ND	ND	ND	0.04	0.087	8.3	2.2
2 Methyl-naphthalene	ND	ND	ND	ND	0.068	5.1	6.1
Benzene	ND	ND	ND	ND	ND	0.039	0.6
Ethylbenzene	ND	0.0004	0.004	0.0004	0.0004	0.1	0.5
Toluene	0.0013	0.0018	0.009	0.0014	0.0018	<0.430	0.2
Xylenes	0.001	0.0017	0.016	0.0017	0.002	0.71	0.2

All values reported in milligrams per kilogram (mg/kg).
ND= Not Detected above reported detection limit.

2.3.3 Replacement Monitoring Well Installation, Sampling and Laboratory Analyses of Groundwater Samples

Two monitoring wells, CEF-PIPE-1S and CEF-PIPE-3S, were replaced subsequent to the source removal on November 16, 1999. The wells were screened from 4 to 14 feet bls. The well locations are shown on Figures 2-1 and 2-2. Well construction logs are provided in Appendix F.

One groundwater sample was collected from each of the replacement wells for KAG analysis as specified in FAC 62-770 for a UST removal. The analytical results are summarized in Table 2-6, and are discussed in Section 3.0. The analytical laboratory report is provided in Appendix G.

TABLE 2-6
Summary of KAG Analyses for Groundwater

Sample Location	CEF-PIPE-3S (North)	CEF-PIPE-1S (South)	GC	NADSC
Screened Interval (feet)	4 – 14	4 – 14	--	--
Site	South	North	--	--
Date	11/18/99	11/18/99	--	--
TRPH	170	2100	5000	50000
Anthracene	ND	1	2100	21000
Fluoranthene	ND	5	280	2800
Phenanthrene	ND	6	210	2100
Naphthalene	ND	38	20	200
1 Methyl-naphthalene	ND	120	20	200
2 Methyl-naphthalene	ND	100	20	200
Benzene	0.5	ND	1	100
Ethylbenzene	ND	1	30	300
Toluene	ND	ND	40	400
Xylenes	ND	ND	20	200

All values reported in milligrams per kilogram (mg/kg).
ND= Not Detected above reported detection limit.

3.0 Conclusions

3.1 Northern Excavation

During the source removal 5.88 tons of petroleum-contaminated soil were removed from the location shown in Figure 2-1 and transported to Soil Safe Technologies, Inc. soil treatment facility in St. Mary's, Georgia. The horizontal and vertical limits of the excavation had headspace VOC concentrations, as measured with an OVA with FID, of less than 50 ppm. The five confirmatory soil samples that were collected subsequent to the excavation were below SCTLs for all KAG parameters, confirming that the horizontal limits of the soil contamination had been removed. One groundwater sample that was collected for KAG analyses from a temporary well installed in the center of the excavation exhibited no KAG constituents above the Groundwater Criteria per FAC 62-777. No free product was encountered during the excavation.

No Further Action Status, per 62-770.680 FAC, is recommended for this site because the following criteria have been met:

- Based on visual inspection, free product is not present at the site.
- Excessively contaminated soil is not present at the site, as demonstrated by OVA screening performed during the tank removal and analytical results from confirmatory soil samples collected from the excavation.
- Contaminated soil is not present in the unsaturated zone at the site, as demonstrated by analytical results from confirmatory soil samples collected from the excavation.
- Based on analytical results from a confirmatory groundwater sample collected from beneath the excavation, contaminated groundwater is not present at the site.

3.2 Southern Excavation

A total of 42.35 tons of petroleum-contaminated soils identified during the source removal were removed from the location shown on Figure 2-2 and transported to Soil Safe Technologies, Inc. soil treatment facility in St. Mary's, Georgia. The soil was excavated to the water table, to a depth of approximately 6 feet bls. The horizontal limits of the excavation had net headspace results (OVA with FID) of less than 50 ppm, except where samples were collected from below the water table (5.5 feet bls and deeper), or a permanent structure was encountered. The five confirmatory soil samples that were collected at each wall and from the floor of the excavation were below SCTLs for all KAG parameters, confirming that the horizontal limits of soil contamination were reached. One soil sample collected from a boring that was advanced outside of the excavation limits adjacent to the northwest corner of the vault contained TPH, 1-methylnaphthalene and xylenes above the SCTLs, but was documented to have been collected below the water table at 5.5 feet. One groundwater sample that was collected for KAG analyses from the replacement well installed within the limits of the excavation exhibited no KAG constituents above the

NADSC, but naphthalene, 1-methylnaphthalene and 2-methylnaphthalene were found above the Groundwater Criteria as shown on Table 2-6. No free product was encountered during the excavation.

Because of elevated contaminant concentrations detected in the groundwater beneath the excavation area, it is recommended that a Natural Attenuation Monitoring Plan be prepared for the site in accordance with FAC 62-770.

Appendix A

Photographs



1. North JP-5 Pipeline Excavation. Site conditions prior to the initiation soil excavation activities, looking northeast.



2. North JP-5 Pipeline Excavation. View of excavation in progress, looking north.



3. North JP-5 Pipeline Excavation. View of final excavation limits.



4. North JP-5 Pipeline Excavation. View of site subsequent to site restoration and monitoring well replacement, looking north.



5. South JP-5 Pipeline Excavation. View of site conditions prior to the initiation of soil excavation activities, looking south. Utility markings are for inactive data transfer lines and inactive fuel piping.



6. South JP-5 Pipeline Excavation. View of exposed inactive JP-5 fuel piping, inactive data transfer lines, and active electrical conduit (on far end of the excavation) during removal activities, looking south.



7. South JP-5 Excavation. View of final horizontal excavation limits, looking north.



8. South JP-5 Pipeline Excavation. JP-5 Pipeline location subsequent to site restoration and monitoring well replacement.

Appendix B

Copies of Soil Manifests

JP-5 South

SOIL SAFE TECHNOLOGIES INCORPORATED
NON-HAZARDOUS MATERIALS MANIFEST

PROJECT NUMBER: 0611S

MANIFEST NUMBER: 0611S

~~10000~~ 1137

GENERATOR/SHIPPING INFORMATION

GENERATOR: U.S. Navy
CONTRACTOR: R E A Remedial Solutions
2815 St. Cloud Oaks Dr
Valrico, FL 33504

CONTACT: Kevin Simmons PH: 813-657-0747

SHIPPING ADDRESS: Cecil Field Jacksonville, FL

MATERIALS DESCRIPTION

Non-Hazardous petroleum contaminated soil. Not RCRA/CERCLA/DOT regulated.

GROSS WEIGHT: 74,940 TARE WEIGHT: 34,500 NET WEIGHT: 20,18
(Seal indicates weights obtained from certified scales)

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL DOES NOT CONTAIN ANY FREE LIQUID AS DESCRIBED BY 40 CFR PART 260.10 OR ANY APPLICABLE STATE LAW, IS NOT A HAZARDOUS OR REGULATED WASTE AS DEFINED BY 40 CFR PART 261 OR ANY APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED, AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

GENERATOR OR AUTHORIZED AGENT PRINT: Kevin Simmons SIGNATURE: [Signature] DATE: _____

TRANSPORTER INFORMATION

TRANSPORTER: Pritchett Trucking
Hwy 121
Lake Butler, FL 32054

TRUCK NUMBER: 768
Phone: 904-496-2630

LOAD DATE: 11/10/99

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR LOCATION LISTED ABOVE

DRIVER SIGNATURE: [Signature]
DESTINATION/RECEIVING INFORMATION

CISCO TRAVEL PLAZA II / SOIL SAFE TECHNOLOGIES
MOBILE PROCESSING CENTER EPA ID GA 0001119940
ST. MARY'S RD @ I-95 EXIT ONE
ST. MARY'S, GA

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED FOR RECYCLING AND TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE

AGENT NAME/PHONE NUMBER:

SIGNATURE OF AGENT OR DESIGNATED REPRESENTATIVE / RECEIPT DATE

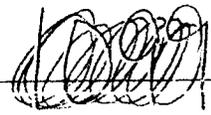
PAUL M. LEWIS 913-925-6400

[Signature]

SOIL SAFE TECHNOLOGIES INCORPORATED
NON-HAZARDOUS MATERIALS MANIFEST

PROJECT NUMBER: 06118

MANIFEST NUMBER: 06118



1138

GENERATOR/SHIPPING INFORMATION

GENERATOR: U.S. Navy
CONTRACTOR: R E A Remedial Solutions
2814 St. Cloud Oaks Dr
Valrico FL 33594

CONTACT: Kevin Simmons PH 813-657-0747

SHIPPING ADDRESS: Cecil Field Jacksonville, FL

MATERIALS DESCRIPTION

Non-Hazardous petroleum contaminated soil. Not RCRA/CERCLA/D.O.T. regulated.

GROSS WEIGHT: 74,260 TARE WEIGHT: 70,920 NET WEIGHT: 22,175
(Seal indicates weights obtained from certified scales)

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL DOES NOT CONTAIN ANY FREE LIQUID AS DESCRIBED BY 40 CFR PART 260.10 OR ANY APPLICABLE STATE LAW, IS NOT A HAZARDOUS OR REGULATED WASTE AS DEFINED BY 40 CFR PART 261 OR ANY APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED, AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS

Kevin J. Musicki Kevin J. Musicki
GENERATOR OR AUTHORIZED AGENT (PRINT) SIGNATURE DATE

TRANSPORTER INFORMATION

TRANSPORTER: Pritchett Trucking
Hwy 121
Lake Butler, FL 32054

TRUCK NUMBER: 396 LOAD DATE: 11/10/98
Phone: 904-496-2630

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR LOCATION LISTED ABOVE

DRIVER SIGNATURE: [Signature]

DESTINATION/RECEIVING INFORMATION

CISCO TRAVEL PLAZA II / SOIL SAFE TECHNOLOGIES
MOBILE PROCESSING CENTER EPA ID GA 0001119940
ST. MARY'S RD @ I-95 EXIT ONE
ST. MARY'S, GA

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED FOR RECYCLING AND TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.

AGENT NAME/PHONE NUMBER:

SIGNATURE OF AGENT OR DESIGNATED REPRESENTATIVE / RECEIPT DATE

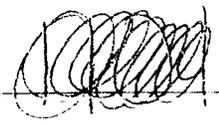
FORM M-1 (REV. 2/98) (31) 1985-1000

0 12 - 2.4 / 10NS
JP-5-5.88
860 - 13.25

SOIL SAFE TECHNOLOGIES INCORPORATED
NON-HAZARDOUS MATERIALS MANIFEST

PROJECT NUMBER: 0611S

MANIFEST NUMBER: 0611S



11-30

GENERATOR/SHIPPING INFORMATION

GENERATOR: U.S. Navy

CONTRACTOR: R E A Remedial Solutions
2815 St. Cloud Oaks Dr
Valrico, FL 33594

CONTACT: Kevin Simmons PH: 813-667-9747

SHIPPING ADDRESS: Cecil Field Jacksonville, FL

MATERIALS DESCRIPTION

Non-Hazardous petroleum contaminated soil. Not RCRA/CERCLA/D.C.T. regulated.

GROSS WEIGHT: 78,120 TARE WEIGHT: 29,920 NET WEIGHT: 21,600
(Gross indicates weights obtained from certified scales)

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL DOES NOT CONTAIN ANY FREE LIQUID AS DESCRIBED BY 40 CFR PART 260.10 OR ANY APPLICABLE STATE LAW, IS NOT A HAZARDOUS OR REGULATED WASTE AS DEFINED BY 40 CFR PART 261 OR ANY APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED, AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

DAVID J. KAWAZICKI
GENERATOR OR AUTHORIZED AGENT (PRINT) SIGNATURE DATE

TRANSPORTER INFORMATION

TRANSPORTER: Pritchett Trucking
Hwy 121
Lake Butler, FL 32054

TRUCK NUMBER: 396 LOAD DATE: 11/11/99
Phone: 904-496-2630

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR LOCATION LISTED ABOVE.

DRIVER SIGNATURE: [Signature]

DESTINATION/RECEIVING INFORMATION

CISCO TRAVEL PLAZA II / SOIL SAFE TECHNOLOGIES
MOBILE PROCESSING CENTER EPA ID GA 0001119940
ST. MARY'S RD @ I-95 EXIT ONE
ST. MARY'S, GA

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED FOR RECYCLING AND TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.

AGENT NAME/PHONE NUMBER:

SIGNATURE OF AGENT OR DESIGNATED REPRESENTATIVE / RECEIPT DATE

DAVID M. LEWIS/770-912-925/6900

Appendix C

Certificate of Recycle

7-28-2000 07:00AM FROM 813 254 8484 P.2

Soil Safe Technologies Incorporated

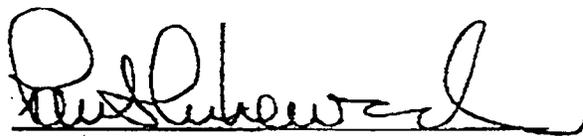
Certificate of Recycle

Soil Safe Technologies Incorporated accepted 25,560.4 tons of non-hazardous recyclable petroleum contaminated soil generated by the Department of the Navy from Cecil Field, Jacksonville, Florida under approval number 4-0611.

This material was contracted by and between Soil Safe Technologies Incorporated and Task Environmental, Inc. contractor, representing the generator. It was accepted for recycling based upon analytical information provided by a certified laboratory and also written certification by the generator verifying non-hazardous status.

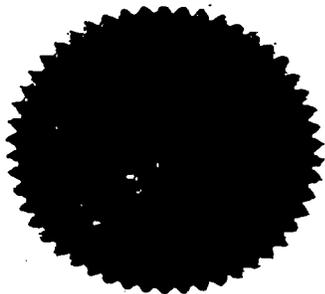
This material was transported under manifest numbers 611001 through 611141.

Soil Safe Technologies Incorporated accepts full responsibility for this material to include safe handling, storage and processing. We certify that this material has been recycled into an environmentally benign product for paving or other construction purposes.



Paul M. Lewczyk
Director of Operations

Friday, July 28, 2000



Appendix D

Clean Fill Certification

FROM : MARIETTA SAND CORP.

FAX NO. : 904-786-6450

Jan. 10 2000 08:54AM P2



MARIETTA SAND CORPORATION

377 Agmac Avenue
Jacksonville, Florida 32254
(904) 781-7304

Pritchett Trucking
PO Box 311
Lake Butler, FL 32054

August 25, 1999

Attention: Mr. Bobby Lord

Please find attached, testing data on fill dirt pit located on Stratton Road in Jacksonville, Duval County, Florida. As you will notice these results are dated June, 1996. Please be advised that the material from this pit is clean and will meet The Navy specifications. Approximately 330 loads of this material was recently sent to Cecil Field for the Fuel Tank Farm. by another contractor and material was accepted.

If you have any questions or concerns, please contact me at the above listed number.

Respectfully,

Susan Henricks
Marietta Sand Corporation

FROM : MARIETTA SAND CORP.

FAX NO. : 904-786-6450

Jan. 10 2000 08:55AM P4



5109 STEPP AVENUE
 JACKSONVILLE, FL 32216-6053
 (904)733-0960 OFFICE
 (904)448-5534 FAX NUMBER

PROJECT NO: 962-2093

REPORT NO: 6

LAB NO: 0-099

DATE: 06/17/96

----- Continued from previous page -----

SIEVE SIZE	PERCENT PASSING
No. 10	100
No. 20	99.8
No. 40	99.6
No. 60	97.6
No. 80	44.6
No. 100	28.3
No. 140	9.3
No. 140	6.3

SAMPLED BY: Client

INSPECTED BY: R. Kelley

DISTRIBUTION: JEE/dfh
 2cc:Client

Respeciffully submitted.
 ELLIS & ASSOCIATES, INC.

 John E. Ellis, II, P.E.
 6/17/96

Appendix E
Analytical Laboratory Reports for
Confirmatory Soil Samples

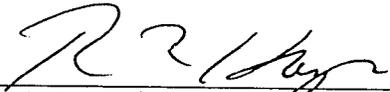


Severn Trent Laboratories
11 East Olive Road
Pensacola FL 32514

Tel: (850) 474-1001
Fax: (850) 478-2671

SIGNATURE PAGE

Reviewed by:



STL Project Manager

Client: TASK ENVIRONMENTAL
TAMPA, FLORIDA

Project Name: CECIL FIELD
Project Number: N/S
Project Location: JACKSONVILLE, FL
Accession Number: 911293

Project Manager: SUSAN TOBIN
Sampled By: JOE SEECH

Other Laboratory Locations:

- 149 Flangeway Road, North Billerica MA 01862
- 16203 Park Flow, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 55 South Park Drive, Colchester VT 05446
- 315 Fullerton Avenue, Newburgh NY 12550
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NY 07981
- 77 New Durham Road, Edison NJ 08817

a part of

Severn Trent Services Ltd.

SEVERN TRENT LABORATORIES, INC. – PENSACOLA, FLORIDA
STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. 81142 (Drinking Water), Laboratory ID No. E81010 (Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. 98-25 (Drinking Water)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES, Laboratory ID No. 250598-A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waste)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment, Health, & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Hazardous Waste and Wastewater by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Tennessee Division of Underground Storage Tanks Approved Laboratory

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	911293
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	001	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO1	Received Date:	10-NOV-99
Batch: FLS189		Extraction Date:	18-NOV-99
Blank: A	Dry Weight %: 84	Analysis Date:	20-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	3.0	
ORTHO TER PHENYL	%REC/SURR	62	62-109	
NONATRIACONTANE	%REC/SURR	79	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	004	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO4	Received Date:	10-NOV-99
Batch: FLS189		Extraction Date:	18-NOV-99
Blank: A	Dry Weight %: 91	Analysis Date:	20-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	5.0	2.7	M
ORTHO TER PHENYL	%REC/SURR	61	62-109	
NONATRIACONTANE	%REC/SURR	74	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
Client: TASK ENVIRONMENTAL
Project Number: N/S
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: SOIL
QC Level: IIMS

Lab Id: 006
Client Sample Id: JPS-C104
Sample Date/Time: 09-NOV-99
Received Date: 10-NOV-99
Batch: FLS189
Blank: A
Dry Weight %: 86
Extraction Date: 18-NOV-99
Analysis Date: 20-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	3	2.9	
ORTHO TER PHENYL	%REC/SURR	70	62-109	
NONATRIACONTANE	%REC/SURR	90	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IIMS

Lab Id:	007	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS EQ BLANK	Received Date:	10-NOV-99
Batch: FLW157		Extraction Date:	10-NOV-99
Blank: A	Dry Weight %: N/A	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100	R6
ORTHO TER PHENYL	%REC/SURR	81	82-142	
NONATRIACONTANE	%REC/SURR	83	42-193	
ANALYST	INITIALS	KA		

Comments:

"Method Report Summary"

Accession Number: 911293
Client: TASK ENVIRONMENTAL
Project Number: N/S
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Client Sample Id:	Parameter:	Unit:	Result:
JPS-CO2	TOTAL PETROLEUM HYDROCARBON	MG/KG	6
JPS-CO3	TOTAL PETROLEUM HYDROCARBON	MG/KG	30
JPS-CO4	TOTAL PETROLEUM HYDROCARBON	MG/KG	5.0
JPS-C104	TOTAL PETROLEUM HYDROCARBON	MG/KG	3

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession:	911293
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	001	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-C01	Received Date:	10-NOV-99
Batch:	PAS123	Extraction Date:	16-NOV-99
Blank:	A	Analysis Date:	18-NOV-99
	Dry Weight %:		84

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	12	
ACENAPHTHYLENE	UG/KG	ND	12	
ANTHRACENE	UG/KG	ND	12	
BENZO (a) ANTHRACENE	UG/KG	ND	12	
BENZO (a) PYRENE	UG/KG	ND	12	
BENZO (b) FLUORANTHENE	UG/KG	ND	12	
BENZO (g, h, i) PERYLENE	UG/KG	ND	12	
BENZO (k) FLUORANTHENE	UG/KG	ND	12	
CHRYSENE	UG/KG	ND	12	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	12	
FLUORANTHENE	UG/KG	ND	12	
FLUORENE	UG/KG	ND	12	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	12	
NAPHTHALENE	UG/KG	ND	12	
PHENANTHRENE	UG/KG	ND	12	
PYRENE	UG/KG	ND	12	
1-METHYLNAPHTHALENE	UG/KG	ND	12	
2-METHYLNAPHTHALENE	UG/KG	ND	12	
2-CHLOROANTHRACENE	%REC/SURR	86	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 002
 Client Sample Id: JPS-CO2
 Sample Date/Time: 09-NOV-99
 Received Date: 10-NOV-99
 Batch: PAS123
 Blank: A
 Dry Weight %: 94
 Extraction Date: 16-NOV-99
 Analysis Date: 18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	ND	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	ND	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	%REC/SURR	66	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 003
 Client Sample Id: JPS-CO3
 Sample Date/Time: 09-NOV-99
 Received Date: 10-NOV-99
 Batch: PAS123
 Blank: A
 Dry Weight %: 80
 Extraction Date: 16-NOV-99
 Analysis Date: 18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	13	
ACENAPHTHYLENE	UG/KG	ND	13	
ANTHRACENE	UG/KG	ND	13	
BENZO (a) ANTHRACENE	UG/KG	ND	13	
BENZO (a) PYRENE	UG/KG	12	13	I
BENZO (b) FLUORANTHENE	UG/KG	14	13	
BENZO (g, h, i) PERYLENE	UG/KG	ND	13	
BENZO (k) FLUORANTHENE	UG/KG	ND	13	
CHRYSENE	UG/KG	ND	13	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	13	
FLUORANTHENE	UG/KG	17	13	
FLUORENE	UG/KG	ND	13	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	21	13	
NAPHTHALENE	UG/KG	ND	13	
PHENANTHRENE	UG/KG	ND	13	
PYRENE	UG/KG	ND	13	
1-METHYLNAPHTHALENE	UG/KG	ND	13	
2-METHYLNAPHTHALENE	UG/KG	ND	13	
2-CHLOROANTHRACENE	%REC/SURR	71	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 004
 Client Sample Id: JPS-CO4
 Sample Date/Time: 09-NOV-99
 Received Date: 10-NOV-99
 Batch: PAS123
 Blank: A
 Dry Weight %: 91
 Extraction Date: 16-NOV-99
 Analysis Date: 18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	98	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	40	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	%REC/SURR	84	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	005	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO5	Received Date:	10-NOV-99
Batch: PAS123		Extraction Date:	16-NOV-99
Blank: A	Dry Weight %: 78	Analysis Date:	18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	13	
ACENAPHTHYLENE	UG/KG	ND	13	
ANTHRACENE	UG/KG	ND	13	
BENZO (a) ANTHRACENE	UG/KG	ND	13	
BENZO (a) PYRENE	UG/KG	ND	13	
BENZO (b) FLUORANTHENE	UG/KG	ND	13	
BENZO (g, h, i) PERYLENE	UG/KG	ND	13	
BENZO (k) FLUORANTHENE	UG/KG	ND	13	
CHRYSENE	UG/KG	ND	13	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	13	
FLUORANTHENE	UG/KG	17	13	
FLUORENE	UG/KG	ND	13	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	13	
NAPHTHALENE	UG/KG	ND	13	
PHENANTHRENE	UG/KG	ND	13	
PYRENE	UG/KG	ND	13	
1-METHYLNAPHTHALENE	UG/KG	87	13	
2-METHYLNAPHTHALENE	UG/KG	68	13	
2-CHLOROANTHRACENE	%REC/SURR	80	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	006	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-C104	Received Date:	10-NOV-99
Batch:	PAS123	Extraction Date:	16-NOV-99
Blank:	A	Analysis Date:	18-NOV-99
	Dry Weight %:		86

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	12	
ACENAPHTHYLENE	UG/KG	ND	12	
ANTHRACENE	UG/KG	ND	12	
BENZO (a) ANTHRACENE	UG/KG	ND	12	
BENZO (a) PYRENE	UG/KG	ND	12	
BENZO (b) FLUORANTHENE	UG/KG	ND	12	
BENZO (g, h, i) PERYLENE	UG/KG	ND	12	
BENZO (k) FLUORANTHENE	UG/KG	ND	12	
CHRYSENE	UG/KG	ND	12	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	12	
FLUORANTHENE	UG/KG	ND	12	
FLUORENE	UG/KG	ND	12	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	12	
NAPHTHALENE	UG/KG	ND	12	
PHENANTHRENE	UG/KG	ND	12	
PYRENE	UG/KG	ND	12	
1-METHYLNAPHTHALENE	UG/KG	ND	12	
2-METHYLNAPHTHALENE	UG/KG	ND	12	
2-CHLOROANTHRACENE	%REC/SURR	83	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IIMS

Lab Id:	007	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS EQ BLANK	Received Date:	10-NOV-99
Batch:	PAW315	Extraction Date:	11-NOV-99
Blank:	A	Analysis Date:	12-NOV-99
	Dry Weight %:		N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	ND	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3 -cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	ND	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	ND	1	
2-METHYLNAPHTHALENE	UG/L	ND	1	
2-CHLOROANTHRACENE	%REC/SURR	63	28-138	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 011
 Client Sample Id: LCS
 Batch: PAS123
 Blank: A

Dry Weight %: N/A

Sample Date/Time:
 Received Date: 10-NOV-99
 Extraction Date: 16-NOV-99
 Analysis Date: 17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	223.1	10	
ACENAPHTHYLENE	UG/KG	266.4	10	
ANTHRACENE	UG/KG	4734	10	
BENZO (a) ANTHRACENE	UG/KG	336.1	10	
BENZO (a) PYRENE	UG/KG	323.5	10	
BENZO (b) FLUORANTHENE	UG/KG	333.6	10	
BENZO (g, h, i) PERYLENE	UG/KG	463.5	10	
BENZO (k) FLUORANTHENE	UG/KG	327.5	10	
CHRYSENE	UG/KG	338.9	10	
DIBENZO (a, h) ANTHRACENE	UG/KG	406.2	10	
FLUORANTHENE	UG/KG	331.3	10	
FLUORENE	UG/KG	294.1	10	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	316.1	10	
NAPHTHALENE	UG/KG	352.2	10	
PHENANTHRENE	UG/KG	318.8	10	
PYRENE	UG/KG	305.8	10	
1-METHYLNAPHTHALENE	UG/KG	295.8	10	
2-METHYLNAPHTHALENE	UG/KG	269.1	10	
2-CHLOROANTHRACENE	%REC/SURR	102	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	012	Sample Date/Time:	
Client Sample Id:	METHOD BLANK	Received Date:	10-NOV-99
Batch: PAS123		Extraction Date:	16-NOV-99
Blank: A	Dry Weight %: N/A	Analysis Date:	17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	10	
ACENAPHTHYLENE	UG/KG	ND	10	
ANTHRACENE	UG/KG	ND	10	
BENZO (a) ANTHRACENE	UG/KG	ND	10	
BENZO (a) PYRENE	UG/KG	ND	10	
BENZO (b) FLUORANTHENE	UG/KG	ND	10	
BENZO (g, h, i) PERYLENE	UG/KG	ND	10	
BENZO (k) FLUORANTHENE	UG/KG	ND	10	
CHRYSENE	UG/KG	ND	10	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	10	
FLUORANTHENE	UG/KG	ND	10	
FLUORENE	UG/KG	ND	10	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	10	
NAPHTHALENE	UG/KG	ND	10	
PHENANTHRENE	UG/KG	ND	10	
PYRENE	UG/KG	ND	10	
1-METHYLNAPHTHALENE	UG/KG	ND	10	
2-METHYLNAPHTHALENE	UG/KG	ND	10	
2-CHLOROANTHRACENE	%REC/SURR	93	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	015	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO4 (MS)	Received Date:	10-NOV-99
Batch: PAS123		Extraction Date:	16-NOV-99
Blank: A	Dry Weight %: 91	Analysis Date:	18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	152.2	11	
ACENAPHTHYLENE	UG/KG	180.9	11	
ANTHRACENE	UG/KG	417.6	11	
BENZO (a) ANTHRACENE	UG/KG	311.4	11	
BENZO (a) PYRENE	UG/KG	307.7	11	
BENZO (b) FLUORANTHENE	UG/KG	304.0	11	
BENZO (g, h, i) PERYLENE	UG/KG	406.6	11	
BENZO (k) FLUORANTHENE	UG/KG	293.0	11	
CHRYSENE	UG/KG	391.9	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	373.6	11	
FLUORANTHENE	UG/KG	296.7	11	
FLUORENE	UG/KG	252.7	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	285.7	11	
NAPHTHALENE	UG/KG	318.7	11	
PHENANTHRENE	UG/KG	282.1	11	
PYRENE	UG/KG	282.1	11	
1-METHYLNAPHTHALENE	UG/KG	241.8	11	
2-METHYLNAPHTHALENE	UG/KG	216.1	11	
2-CHLOROANTHRACENE	%REC/SURR	105	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	016	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO4 (MSD)	Received Date:	10-NOV-99
Batch:	PAS123	Extraction Date:	16-NOV-99
Blank:	A	Analysis Date:	18-NOV-99
	Dry Weight %:		91

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	150.5	11	
ACENAPHTHYLENE	UG/KG	168.5	11	
ANTHRACENE	UG/KG	373.6	11	
BENZO (a) ANTHRACENE	UG/KG	289.4	11	
BENZO (a) PYRENE	UG/KG	282.1	11	
BENZO (b) FLUORANTHENE	UG/KG	282.1	11	
BENZO (g, h, i) PERYLENE	UG/KG	373.6	11	
BENZO (k) FLUORANTHENE	UG/KG	284.7	11	
CHRYSENE	UG/KG	362.6	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	348.0	11	
FLUORANTHENE	UG/KG	282.1	11	
FLUORENE	UG/KG	230.8	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	260.1	11	
NAPHTHALENE	UG/KG	333.3	11	
PHENANTHRENE	UG/KG	260.1	11	
PYRENE	UG/KG	267.4	11	
1-METHYLNAPHTHALENE	UG/KG	234.4	11	
2-METHYLNAPHTHALENE	UG/KG	201.5	11	
2-CHLOROANTHRACENE	%REC/SURR	77	17-160	
ANALYST	INITIALS	SB		

Comments:

"Method Report Summary"

Accession Number: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
JPS-CO3	BENZO (a) PYRENE	UG/KG	12
	BENZO (b) FLUORANTHENE	UG/KG	14
	FLUORANTHENE	UG/KG	17
JPS-CO4	INDENO (1,2,3-cd) PYRENE	UG/KG	21
	NAPHTHALENE	UG/KG	98
JPS-CO5	1-METHYLNAPHTHALENE	UG/KG	40
	FLUORANTHENE	UG/KG	17
LCS	1-METHYLNAPHTHALENE	UG/KG	87
	2-METHYLNAPHTHALENE	UG/KG	68
	ACENAPHTHENE	UG/KG	223.1
	ACENAPHTHYLENE	UG/KG	266.4
	ANTHRACENE	UG/KG	4734
	BENZO (a) ANTHRACENE	UG/KG	336.1
	BENZO (a) PYRENE	UG/KG	323.5
	BENZO (b) FLUORANTHENE	UG/KG	333.6
	BENZO (g, h, i) PERYLENE	UG/KG	463.5
	BENZO (k) FLUORANTHENE	UG/KG	327.5
	CHRYSENE	UG/KG	338.9
	DIBENZO (a, h) ANTHRACENE	UG/KG	406.2
	FLUORANTHENE	UG/KG	331.3
	FLUORENE	UG/KG	294.1
	INDENO (1,2,3-cd) PYRENE	UG/KG	316.1
	NAPHTHALENE	UG/KG	352.2
	PHENANTHRENE	UG/KG	318.8
	PYRENE	UG/KG	305.8
	1-METHYLNAPHTHALENE	UG/KG	295.8
	2-METHYLNAPHTHALENE	UG/KG	269.1
JPS-CO4 (MS)	ACENAPHTHENE	UG/KG	152.2
	ACENAPHTHYLENE	UG/KG	180.9
	ANTHRACENE	UG/KG	417.6
	BENZO (a) ANTHRACENE	UG/KG	311.4
	BENZO (a) PYRENE	UG/KG	307.7
	BENZO (b) FLUORANTHENE	UG/KG	304.0
	BENZO (g, h, i) PERYLENE	UG/KG	406.6
	BENZO (k) FLUORANTHENE	UG/KG	293.0
	CHRYSENE	UG/KG	391.9
	DIBENZO (a, h) ANTHRACENE	UG/KG	373.6
	FLUORANTHENE	UG/KG	296.7
	FLUORENE	UG/KG	252.7
	INDENO (1,2,3-cd) PYRENE	UG/KG	285.7
	NAPHTHALENE	UG/KG	318.7
	PHENANTHRENE	UG/KG	282.1
	PYRENE	UG/KG	282.1
	1-METHYLNAPHTHALENE	UG/KG	241.8

"Method Report Summary"

Accession Number: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
JPS-CO4 (MSD)	2-METHYLNAPHTHALENE	UG/KG	216.1
	ACENAPHTHENE	UG/KG	150.5
	ACENAPHTHYLENE	UG/KG	168.5
	ANTHRACENE	UG/KG	373.6
	BENZO (a) ANTHRACENE	UG/KG	289.4
	BENZO (a) PYRENE	UG/KG	282.1
	BENZO (b) FLUORANTHENE	UG/KG	282.1
	BENZO (g, h, i) PERYLENE	UG/KG	373.6
	BENZO (k) FLUORANTHENE	UG/KG	284.7
	CHRYSENE	UG/KG	362.6
	DIBENZO (a, h) ANTHRACENE	UG/KG	348.0
	FLUORANTHENE	UG/KG	282.1
	FLUORENE	UG/KG	230.8
	INDENO (1, 2, 3-cd) PYRENE	UG/KG	260.1
	NAPHTHALENE	UG/KG	333.3
	PHENANTHRENE	UG/KG	260.1
	PYRENE	UG/KG	267.4
	1-METHYLNAPHTHALENE	UG/KG	234.4
	2-METHYLNAPHTHALENE	UG/KG	201.5

Analysis Report

Analysis: BETX + MTBE (5035/8021B)

Accession:	911293
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	GC/VOA

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRW

Lab Id:	001	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO1	Received Date:	10-NOV-99
Batch: LUS114		Extraction Date:	N/A
Blank: A	Dry Weight %: 84	Analysis Date:	15-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	ND	1	
METHYL T-BUTYL ETHER	UG/KG	ND	6	
TOLUENE	UG/KG	1.3	6	I
XYLENES	UG/KG	1.0	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	107	70-130	
ANALYST	INITIALS	DT		

Comments:

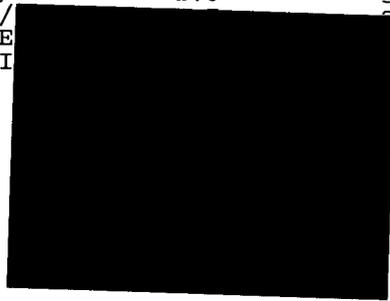
"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRW

Lab Id: 002
 Client Sample Id: JPS-CO2
 Sample Date/Time: 09-NOV-99
 Received Date: 10-NOV-99
 Batch: LUS114
 Blank: A
 Dry Weight %: 94
 Extraction Date: N/A
 Analysis Date: 15-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	0.4	1	I
METHYL T-BUTYL ETHER	UG/KG	ND	5	
TOLUENE	UG/KG	1.8	5	I
XYLENES	UG/KG		5	I
BROMOFLUOROBENZENE (PID)	%RE		0-130	
ANALYST	INI			

Comments:



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Date 28-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	003	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO3	Received Date:	10-NOV-99
Batch: LUS114		Extraction Date:	N/A
Blank: A	Dry Weight %: 80	Analysis Date:	15-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	4	1	
METHYL T-BUTYL ETHER	UG/KG	ND	6	
TOLUENE	UG/KG	9	6	
XYLENES	UG/KG	16	3	
BROMOFLUOROBENZENE (PID)	%REC/SURR	96	70-130	
ANALYST	INITIALS	DT		

Comments:

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Date 28-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	004	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-CO4	Received Date:	10-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: A	Dry Weight %: 91	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	0.4	1	I
METHYL T-BUTYL ETHER	UG/KG	ND	7	
TOLUENE	UG/KG	1.4	7	I
XYLENES	UG/KG	1.7	3	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	102	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	006	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS-C104	Received Date:	10-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: A	Dry Weight %: 86	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	0.1	1	I
ETHYL BENZENE	UG/KG	0.4	1	I
METHYL T-BUTYL ETHER	UG/KG	ND	6	
TOLUENE	UG/KG	1.2	6	I
XYLENES	UG/KG	1.6	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	101	70-130	
ANALYST	INITIALS	DT		

Comments:

[0] Page 7
Date 28-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	007	Sample Date/Time:	09-NOV-99
Client Sample Id:	JPS EQ BLANK	Received Date:	10-NOV-99
Batch: LUS114		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	0.2	1	I
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	2.4	5	I
TOLUENE	UG/L	110	5	
XYLENES (TOTAL)	UG/L	0.9	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	107	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id: 008
 Client Sample Id: TRIP BLANK
 Batch: LUS114
 Blank: A

Sample Date/Time:
 Received Date: 10-NOV-99
 Extraction Date: N/A
 Analysis Date: 16-NOV-99

Dry Weight %: N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	Y1
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	1.2	5	I
TOLUENE	UG/L	110	5	
XYLENES (TOTAL)	UG/L	0.9	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	107	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id: 011
 Client Sample Id: LCS
 Batch: LUS114
 Blank: A

Dry Weight %: N/A

Sample Date/Time:
 Received Date: 10-NOV-99
 Extraction Date: N/A
 Analysis Date: 15-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	48	1	
ETHYL BENZENE	UG/KG	56	1	
METHYL T-BUTYL ETHER	UG/KG	92	5	
TOLUENE	UG/KG	49	5	
XYLENES	UG/KG	160	2	
BROMOFLUOROBENZENE (PID)	%REC/SURR	101	70-130	
ANALYST	INITIALS	SK		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	012	Sample Date/Time:	
Client Sample Id:	METHOD BLANK	Received Date:	10-NOV-99
Batch: LUS114		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	15-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	ND	1	
METHYL T-BUTYL ETHER	UG/KG	ND	5	
TOLUENE	UG/KG	ND	5	
XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE (PID)	%REC/SURR	104	70-130	
ANALYST	INITIALS	SK		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRW

Lab Id:	013	Sample Date/Time:	
Client Sample Id:	METHOD BLANK 2	Received Date:	10-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	ND	1	
METHYL T-BUTYL ETHER	UG/KG	ND	5	
TOLUENE	UG/KG	ND	5	
XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE (PID)	%REC/SURR	103	70-130	
ANALYST	INITIALS	SK		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	014	Sample Date/Time:	09-NOV-99
Client Sample Id:	LCS 2	Received Date:	10-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	45	1	
ETHYL BENZENE	UG/KG	55	1	
METHYL T-BUTYL ETHER	UG/KG	83	5	
TOLUENE	UG/KG	47	5	
XYLENES	UG/KG	150	2	
BROMOFLUOROBENZENE (PID)	%REC/SURR	102	70-130	
ANALYST	INITIALS	SK		

Comments:

"Method Report Summary"

Accession Number: 911293
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)

Client Sample Id:	Parameter:	Unit:	Result:
JPS-CO1	TOLUENE	UG/KG	1.3
	XYLENES	UG/KG	1.0
JPS-CO2	ETHYL BENZENE	UG/KG	0.4
	TOLUENE	UG/KG	1.8
	XYLENES	UG/KG	1.7
JPS-CO3	ETHYL BENZENE	UG/KG	4
	TOLUENE	UG/KG	9
	XYLENES	UG/KG	16
JPS-CO4	ETHYL BENZENE	UG/KG	0.4
	TOLUENE	UG/KG	1.4
	XYLENES	UG/KG	1.7
JPS-CO5	ETHYL BENZENE	UG/KG	0.4
	TOLUENE	UG/KG	1.8
	XYLENES	UG/KG	2.0
JPS-C104	BENZENE	UG/KG	0.1
	ETHYL BENZENE	UG/KG	0.4
	TOLUENE	UG/KG	1.2
	XYLENES	UG/KG	1.6
JPS EQ BLANK	BENZENE	UG/L	0.2
	METHYL T-BUTYL ETHER	UG/L	2.4
	TOLUENE	UG/L	110
	XYLENES (TOTAL)	UG/L	0.9
TRIP BLANK	METHYL T-BUTYL ETHER	UG/L	1.2
	TOLUENE	UG/L	110
	XYLENES (TOTAL)	UG/L	0.9
LCS	BENZENE	UG/KG	48
	ETHYL BENZENE	UG/KG	56
	METHYL T-BUTYL ETHER	UG/KG	92
	TOLUENE	UG/KG	49
	XYLENES	UG/KG	160
LCS 2	BENZENE	UG/KG	45
	ETHYL BENZENE	UG/KG	55
	METHYL T-BUTYL ETHER	UG/KG	83
	TOLUENE	UG/KG	47
	XYLENES	UG/KG	150

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

J4	(For positive results)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$)
J5	(TICs)	The reported value is quantitated as a TIC; therefore, it is estimated
J6	(For positive results)	LCS or Surrogate %R is > upper control limit (UCL) or < lower control limit (LCL)
J7	(For positive results)	The reported value is > the laboratory MDL and < lowest calibration standards; therefore, the quantitation is an estimation.
J	(AFCEE description)	The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$)
R2		Improper preservation, no preservative present in sample upon receipt
R3		Improper preservation, incorrect preservative present in sample upon receipt
R4		Holding time exceeded
R10		Holding time exceeded, non-reportable for NDPES compliance monitoring
R5		Collection requirements not met, improper container used for sample
R6		LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects
R7		Internal standard area outside -50% to +100% of initial calibration midpoint standard.
R8		Initial calibration or any calibration verification exceeds acceptance criteria.
R9		Improper preservation, sample not filtered in the field.
R	(AFCEE description)	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F		< laboratory or AFCEE RL and > laboratory MDL
F	(AFCEE description)	The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2		< Laboratory MDL (value for result will be the MDL, never below the MDL)
U	(AFCEE description)	The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B	(AFCEE description)	The analyte was found in the associated blank, as well as in the sample
B1		Analyte was detected in the associated method blank.
@		Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+		Elevated reporting limit due to dilution into calibration range
*	(Metals & Wet Chem)	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
**	(Organics)	Compounds flagged are not within the five point initial calibration curve. They are searched for qualitatively or as TICs.
#		Elevated reporting limit due to insufficient sample size
D		Diluted out
M		A matrix effect was present (sample was analyzed twice to confirm or chromatogram had interfering peaks)
S		Incorrect sample amount was submitted to the laboratory for analysis
T		Second-column confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC		Samples are searched for qualitatively as Tentatively Identified Compounds.
E		Compound concentration exceeds the upper calibration range of the instrument.
W		Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

ND = Not Detected at or above the STL-Pensacola reporting limit (RL)
 IDL = Laboratory Instrument Detection Limit
 RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)

N/S = Not Submitted
 N/A = Not Applicable
 MDL = Laboratory Method Detection Limit

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative)

Florida Projects Inorganic/Organic

Y1		Improper preservation, no preservative present in sample upon receipt
Y2		Improper preservation, incorrect preservative present in sample upon receipt
Y3		Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y	(FL description)	The analysis was from an unpreserved or improperly preserved sample. Data may not be accurate
Q		Sample held beyond the accepted holding time
I		The reported value is < Laboratory RL and > laboratory MDL
U1		The reported value is \leq Laboratory MDL (value for sample result is reported as the MDL)
U	(FL description)	Indicates the compound was analyzed for but not detected
T		The reported value is < Laboratory MDL (value shall not be used for statistical analysis)
V		The analyte was detected in both the sample and the associated method blank
J1		Surrogate recovery outside acceptance limits. Not enough sample available to reextract and/or reanalyze.
J2		The sample matrix interfered with the ability to make any accurate determinations
J3		The reported value failed to meet the established quality control criteria for either precision or accuracy
J	(FL description)	Estimated value; not accurate

CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers.

JP-5



Severn Trent Laboratories
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SIGNATURE PAGE

Reviewed by:


STL Project Manager

Client: TASK ENVIRONMENTAL
TAMPA, FLORIDA

Project Name: CECIL FIELD
Project Number: E0105
Project Location: JACKSONVILLE, FL
Accession Number: 911336

Project Manager: SUSAN TOBIN
Sampled By: JOE SCECH

Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 55 South Park Drive, Colchester VT 05446
- 315 Fullerton Avenue, Newburgh NY 12550
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NY 07981
- 77 New Durham Road, Edison NJ 08817

a part of
Severn Trent Services Inc

SEVERN TRENT LABORATORIES, INC. – PENSACOLA, FLORIDA
STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. 81142 (Drinking Water), Laboratory ID No. E81010 (Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. 98-25 (Drinking Water)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES, Laboratory ID No. 250598-A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waster)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment, Health, & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Hazardous Waste and Wastewater by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Tennessee Division of Underground Storage Tanks Approved Laboratory

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	911336
Client:	TASK ENVIRONMENTAL
Project Number:	E0105
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 001
 Client Sample Id: JPSC-06
 Batch: FLS189
 Blank: A

Dry Weight %: 89

Sample Date/Time: 10-NOV-99 1105
 Received Date: 11-NOV-99
 Extraction Date: 18-NOV-99
 Analysis Date: 19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	
ORTHO TER PHENYL	%REC/SURR	62	62-109	
NONATRIACONTANE	%REC/SURR	61	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

[0] Page 2
Date 01-Dec-99

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 002
 Client Sample Id: JPSC-07
 Sample Date/Time: 10-NOV-99 1107
 Received Date: 11-NOV-99
 Batch: FLS189
 Blank: A
 Dry Weight %: 94
 Extraction Date: 18-NOV-99
 Analysis Date: 19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.7	
ORTHO TER PHENYL	%REC/SURR	63	62-109	
NONATRIACONTANE	%REC/SURR	77	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

[0] Page 3
Date 01-Dec-99

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 003
 Client Sample Id: JPSC-08
 Sample Date/Time: 10-NOV-99 1109
 Received Date: 11-NOV-99
 Batch: FLS189
 Blank: A
 Dry Weight %: 92
 Extraction Date: 18-NOV-99
 Analysis Date: 19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.7	R6
ORTHO TER PHENYL	%REC/SURR	47	62-109	
NONATRIACONTANE	%REC/SURR	44	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

[0] Page 4
Date 01-Dec-99

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 004
 Client Sample Id: JPSC-09
 Batch: FLS189
 Blank: A
 Dry Weight %: 92
 Sample Date/Time: 10-NOV-99 1110
 Received Date: 11-NOV-99
 Extraction Date: 18-NOV-99
 Analysis Date: 20-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.7	
ORTHO TER PHENYL	%REC/SURR	62	62-109	
NONATRIACONTANE	%REC/SURR	72	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
Client: TASK ENVIRONMENTAL
Project Number: E0105
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: SOIL
QC Level: IIMS

Lab Id: 005 Sample Date/Time: 10-NOV-99 1113
Client Sample Id: JPSC-10 Received Date: 11-NOV-99

Batch: FLS189 Extraction Date: 18-NOV-99
Blank: A Dry Weight %: 88 Analysis Date: 20-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	R6
ORTHO TER PHENYL	%REC/SURR	45	62-109	
NONATRIACONTANE	%REC/SURR	53	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
Client: TASK ENVIRONMENTAL
Project Number: E0105
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: SOIL
QC Level: IIMS

Lab Id: 009
Client Sample Id: JPSC-06 (MSD) Sample Date/Time: 10-NOV-99 1105
 Received Date: 11-NOV-99
Batch: FLS189
Blank: A Dry Weight %: 89 Extraction Date: 18-NOV-99
 Analysis Date: 19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	130	2.8	
ORTHO TER PHENYL	%REC/SURR	80	62-109	
NONATRIACONTANE	%REC/SURR	106	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	012	Sample Date/Time:	
Client Sample Id:	METHOD BLANK	Received Date:	11-NOV-99
Batch: FLS189		Extraction Date:	18-NOV-99
Blank: A	Dry Weight %: N/A	Analysis Date:	19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.5	
ORTHO TER PHENYL	%REC/SURR	81	62-109	
NONATRIACONTANE	%REC/SURR	93	60-118	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
Client: TASK ENVIRONMENTAL
Project Number: E0105
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: SOIL
QC Level: IIMS

Lab Id: 013
Client Sample Id: LCS
Batch: FLS189
Blank: A
Dry Weight %: N/A
Sample Date/Time:
Received Date: 11-NOV-99
Extraction Date: 18-NOV-99
Analysis Date: 19-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	84	2.5	
ORTHO TER PHENYL	%REC/SURR	67	62-109	
NONATRIACONTANE	%REC/SURR	84	60-118	
ANALYST	INITIALS	KA		

Comments:

"Method Report Summary"

Accession Number: 911336
Client: TASK ENVIRONMENTAL
Project Number: E0105
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Client Sample Id:	Parameter:	Unit:	Result:
JPSC-11	TOTAL PETROLEUM HYDROCARBON	MG/KG	810
JPSC-06 (MS)	TOTAL PETROLEUM HYDROCARBON	MG/KG	120
JPSC-06 (MSD)	TOTAL PETROLEUM HYDROCARBON	MG/KG	130
LCS	TOTAL PETROLEUM HYDROCARBON	MG/KG	84

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession:	911336
Client:	TASK ENVIRONMENTAL
Project Number:	E0105
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 001
 Client Sample Id: JPSC-06
 Sample Date/Time: 10-NOV-99 1105
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A
 Dry Weight %: 89
 Extraction Date: 15-NOV-99
 Analysis Date: 17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	12	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	88	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	140	11	
PHENANTHRENE	UG/KG	60	11	
PYRENE	UG/KG	80	11	
1-METHYLNAPHTHALENE	UG/KG	770	11	
2-METHYLNAPHTHALENE	UG/KG	480	11	
2-CHLOROANTHRACENE	%REC/SURR	69	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	002	Sample Date/Time:	10-NOV-99 1107
Client Sample Id:	JPSC-07	Received Date:	11-NOV-99
Batch: PAS122		Extraction Date:	15-NOV-99
Blank: A	Dry Weight %: 94	Analysis Date:	17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	ND	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	ND	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	%REC/SURR	94	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	003	Sample Date/Time:	10-NOV-99 1109
Client Sample Id:	JPSC-08	Received Date:	11-NOV-99
Batch: PAS122		Extraction Date:	15-NOV-99
Blank: A	Dry Weight %: 92	Analysis Date:	17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	ND	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	ND	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	%REC/SURR	82	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 004
 Client Sample Id: JPSC-09
 Sample Date/Time: 10-NOV-99 1110
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A Dry Weight %: 92
 Extraction Date: 15-NOV-99
 Analysis Date: 17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	ND	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	ND	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	%REC/SURR	63	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 005
 Client Sample Id: JPSC-10
 Sample Date/Time: 10-NOV-99 1113
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A Dry Weight %: 88
 Extraction Date: 15-NOV-99
 Analysis Date: 17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	11	
ACENAPHTHYLENE	UG/KG	ND	11	
ANTHRACENE	UG/KG	ND	11	
BENZO (a) ANTHRACENE	UG/KG	ND	11	
BENZO (a) PYRENE	UG/KG	ND	11	
BENZO (b) FLUORANTHENE	UG/KG	ND	11	
BENZO (g, h, i) PERYLENE	UG/KG	ND	11	
BENZO (k) FLUORANTHENE	UG/KG	ND	11	
CHRYSENE	UG/KG	ND	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	11	
FLUORANTHENE	UG/KG	ND	11	
FLUORENE	UG/KG	ND	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	11	
NAPHTHALENE	UG/KG	ND	11	
PHENANTHRENE	UG/KG	ND	11	
PYRENE	UG/KG	ND	11	
1-METHYLNAPHTHALENE	UG/KG	ND	11	
2-METHYLNAPHTHALENE	UG/KG	ND	11	
2-CHLOROANTHRACENE	UG/KG	ND	11	
ANALYST	%REC/SURR	76	17-160	
	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 006
 Client Sample Id: JPSC-11
 Sample Date/Time: 10-NOV-99 1205
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A
 Dry Weight %: 85
 Extraction Date: 15-NOV-99
 Analysis Date: 17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	12	
ACENAPHTHYLENE	UG/KG	ND	12	
ANTHRACENE	UG/KG	330	12	
BENZO (a) ANTHRACENE	UG/KG	140	12	
BENZO (a) PYRENE	UG/KG	39	12	
BENZO (b) FLUORANTHENE	UG/KG	78	12	
BENZO (g, h, i) PERYLENE	UG/KG	ND	12	
BENZO (k) FLUORANTHENE	UG/KG	16	12	
CHRYSENE	UG/KG	110	12	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	12	
FLUORANTHENE	UG/KG	1200	12	
FLUORENE	UG/KG	300	12	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	26	12	
NAPHTHALENE	UG/KG	400	12	
PHENANTHRENE	UG/KG	730	12	
PYRENE	UG/KG	1500	12	
1-METHYLNAPHTHALENE	UG/KG	8300	12	
2-METHYLNAPHTHALENE	UG/KG	5100	12	
2-CHLOROANTHRACENE	%REC/SURR	160	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id:	010	Sample Date/Time:	10-NOV-99 1107
Client Sample Id:	JPSC-07 (MS)	Received Date:	11-NOV-99
Batch: PAS122		Extraction Date:	15-NOV-99
Blank: A	Dry Weight %: 94	Analysis Date:	17-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	104.4	11	
ACENAPHTHYLENE	UG/KG	79.9	11	
ANTHRACENE	UG/KG	298.3	11	
BENZO (a) ANTHRACENE	UG/KG	233.0	11	
BENZO (a) PYRENE	UG/KG	228.1	11	
BENZO (b) FLUORANTHENE	UG/KG	232.7	11	
BENZO (g, h, i) PERYLENE	UG/KG	290.6	11	
BENZO (k) FLUORANTHENE	UG/KG	225.2	11	
CHRYSENE	UG/KG	233.5	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	257.1	11	
FLUORANTHENE	UG/KG	232.2	11	
FLUORENE	UG/KG	175.2	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	219.3	11	
NAPHTHALENE	UG/KG	233.1	11	
PHENANTHRENE	UG/KG	209.8	11	
PYRENE	UG/KG	211.7	11	
1-METHYLNAPHTHALENE	UG/KG	153.6	11	
2-METHYLNAPHTHALENE	UG/KG	121.6	11	
2-CHLOROANTHRACENE	%REC/SURR	58	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 011
 Client Sample Id: JPSC-07 (MSD) Sample Date/Time: 10-NOV-99 1107
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A Dry Weight %: 94 Extraction Date: 15-NOV-99
 Analysis Date: 18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	178.2	11	
ACENAPHTHYLENE	UG/KG	161.2	11	
ANTHRACENE	UG/KG	387.5	11	
BENZO (a) ANTHRACENE	UG/KG	280.1	11	
BENZO (a) PYRENE	UG/KG	272.1	11	
BENZO (b) FLUORANTHENE	UG/KG	275.3	11	
BENZO (g, h, i) PERYLENE	UG/KG	354.7	11	
BENZO (k) FLUORANTHENE	UG/KG	268.5	11	
CHRYSENE	UG/KG	279.8	11	
DIBENZO (a, h) ANTHRACENE	UG/KG	319.3	11	
FLUORANTHENE	UG/KG	281.2	11	
FLUORENE	UG/KG	246.9	11	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	257.3	11	
NAPHTHALENE	UG/KG	300.5	11	
PHENANTHRENE	UG/KG	268.2	11	
PYRENE	UG/KG	256.4	11	
1-METHYLNAPHTHALENE	UG/KG	227.4	11	
2-METHYLNAPHTHALENE	UG/KG	198.5	11	
2-CHLOROANTHRACENE	%REC/SURR	71	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 012
 Client Sample Id: METHOD BLANK
 Sample Date/Time:
 Received Date: 11-NOV-99
 Batch: PAS122
 Blank: A Dry Weight %: N/A
 Extraction Date: 15-NOV-99
 Analysis Date: 16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	10	
ACENAPHTHYLENE	UG/KG	ND	10	
ANTHRACENE	UG/KG	ND	10	
BENZO (a) ANTHRACENE	UG/KG	ND	10	
BENZO (a) PYRENE	UG/KG	ND	10	
BENZO (b) FLUORANTHENE	UG/KG	ND	10	
BENZO (g, h, i) PERYLENE	UG/KG	ND	10	
BENZO (k) FLUORANTHENE	UG/KG	ND	10	
CHRYSENE	UG/KG	ND	10	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	10	
FLUORANTHENE	UG/KG	ND	10	
FLUORENE	UG/KG	ND	10	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	10	
NAPHTHALENE	UG/KG	ND	10	
PHENANTHRENE	UG/KG	ND	10	
PYRENE	UG/KG	ND	10	
1-METHYLNAPHTHALENE	UG/KG	ND	10	
2-METHYLNAPHTHALENE	UG/KG	ND	10	
2-CHLOROANTHRACENE	%REC/SURR	68	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3550B/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: SOIL
 QC Level: IIMS

Lab Id: 013
 Client Sample Id: LCS
 Batch: PAS122
 Blank: A

Dry Weight %: N/A

Sample Date/Time:
 Received Date: 11-NOV-99
 Extraction Date: 15-NOV-99
 Analysis Date: 16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	196.9	10	
ACENAPHTHYLENE	UG/KG	179.6	10	
ANTHRACENE	UG/KG	409.0	10	
BENZO (a) ANTHRACENE	UG/KG	285.7	10	
BENZO (a) PYRENE	UG/KG	289.7	10	
BENZO (b) FLUORANTHENE	UG/KG	281.0	10	
BENZO (g, h, i) PERYLENE	UG/KG	377.3	10	
BENZO (k) FLUORANTHENE	UG/KG	276.0	10	
CHRYSENE	UG/KG	284.2	10	
DIBENZO (a, h) ANTHRACENE	UG/KG	337.4	10	
FLUORANTHENE	UG/KG	278.7	10	
FLUORENE	UG/KG	245.5	10	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	268.6	10	
NAPHTHALENE	UG/KG	293.5	10	
PHENANTHRENE	UG/KG	265.0	10	
PYRENE	UG/KG	255.8	10	
1-METHYLNAPHTHALENE	UG/KG	240.6	10	
2-METHYLNAPHTHALENE	UG/KG	230.1	10	
2-CHLOROANTHRACENE	%REC/SURR	88	17-160	
ANALYST	INITIALS	SB		

Comments:

"Method Report Summary"

Accession Number: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
JPSC-06	BENZO (b) FLUORANTHENE	UG/KG	12
	FLUORANTHENE	UG/KG	88
	NAPHTHALENE	UG/KG	140
	PHENANTHRENE	UG/KG	60
	PYRENE	UG/KG	80
JPSC-11	1-METHYLNAPHTHALENE	UG/KG	770
	2-METHYLNAPHTHALENE	UG/KG	480
	ANTHRACENE	UG/KG	330
	BENZO (a) ANTHRACENE	UG/KG	140
	BENZO (a) PYRENE	UG/KG	39
	BENZO (b) FLUORANTHENE	UG/KG	78
	BENZO (k) FLUORANTHENE	UG/KG	16
	CHRYSENE	UG/KG	110
	FLUORANTHENE	UG/KG	1200
	FLUORENE	UG/KG	300
	INDENO (1, 2, 3-cd) PYRENE	UG/KG	26
	NAPHTHALENE	UG/KG	400
	PHENANTHRENE	UG/KG	730
	PYRENE	UG/KG	1500
	1-METHYLNAPHTHALENE	UG/KG	8300
2-METHYLNAPHTHALENE	UG/KG	5100	
JPSC-07 (MS)	ACENAPHTHENE	UG/KG	104.4
	ACENAPHTHYLENE	UG/KG	79.9
	ANTHRACENE	UG/KG	298.3
	BENZO (a) ANTHRACENE	UG/KG	233.0
	BENZO (a) PYRENE	UG/KG	228.1
	BENZO (b) FLUORANTHENE	UG/KG	232.7
	BENZO (g, h, i) PERYLENE	UG/KG	290.6
	BENZO (k) FLUORANTHENE	UG/KG	225.2
	CHRYSENE	UG/KG	233.5
	DIBENZO (a, h) ANTHRACENE	UG/KG	257.1
	FLUORANTHENE	UG/KG	232.2
	FLUORENE	UG/KG	175.2
	INDENO (1, 2, 3-cd) PYRENE	UG/KG	219.3
	NAPHTHALENE	UG/KG	233.1
	PHENANTHRENE	UG/KG	209.8
	PYRENE	UG/KG	211.7
	1-METHYLNAPHTHALENE	UG/KG	153.6
	2-METHYLNAPHTHALENE	UG/KG	121.6
JPSC-07 (MSD)	ACENAPHTHENE	UG/KG	178.2
	ACENAPHTHYLENE	UG/KG	161.2
	ANTHRACENE	UG/KG	387.5
	BENZO (a) ANTHRACENE	UG/KG	280.1
	BENZO (a) PYRENE	UG/KG	272.1

"Method Report Summary"

Accession Number: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
LCS	BENZO(b) FLUORANTHENE	UG/KG	275.3
	BENZO(g, h, i) PERYLENE	UG/KG	354.7
	BENZO(k) FLUORANTHENE	UG/KG	268.5
	CHRYSENE	UG/KG	279.8
	DIBENZO(a, h) ANTHRACENE	UG/KG	319.3
	FLUORANTHENE	UG/KG	281.2
	FLUORENE	UG/KG	246.9
	INDENO(1, 2, 3-cd) PYRENE	UG/KG	257.3
	NAPHTHALENE	UG/KG	300.5
	PHENANTHRENE	UG/KG	268.2
	PYRENE	UG/KG	256.4
	1-METHYLNAPHTHALENE	UG/KG	227.4
	2-METHYLNAPHTHALENE	UG/KG	198.5
	ACENAPHTHENE	UG/KG	196.9
	ACENAPHTHYLENE	UG/KG	179.6
	ANTHRACENE	UG/KG	409.0
	BENZO(a) ANTHRACENE	UG/KG	285.7
	BENZO(a) PYRENE	UG/KG	289.7
	BENZO(b) FLUORANTHENE	UG/KG	281.0
	BENZO(g, h, i) PERYLENE	UG/KG	377.3
	BENZO(k) FLUORANTHENE	UG/KG	276.0
	CHRYSENE	UG/KG	284.2
	DIBENZO(a, h) ANTHRACENE	UG/KG	337.4
	FLUORANTHENE	UG/KG	278.7
	FLUORENE	UG/KG	245.5
	INDENO(1, 2, 3-cd) PYRENE	UG/KG	268.6
	NAPHTHALENE	UG/KG	293.5
	PHENANTHRENE	UG/KG	265.0
	PYRENE	UG/KG	255.8
	1-METHYLNAPHTHALENE	UG/KG	240.6
	2-METHYLNAPHTHALENE	UG/KG	230.1

Analysis Report

Analysis: BETX + MTBE (5035/8021B)

Accession:	911336
Client:	TASK ENVIRONMENTAL
Project Number:	E0105
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	GC/VOA

[0] Page 1
Date 26-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	001	Sample Date/Time:	10-NOV-99 1105
Client Sample Id:	JPSC-06	Received Date:	11-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: A	Dry Weight %: 89	Analysis Date:	16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	0.5	1	I
METHYL T-BUTYL ETHER	UG/KG	ND	7	
TOLUENE	UG/KG	1.4	7	I
XYLENES	UG/KG	1.8	3	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	97	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id: 002
 Client Sample Id: JPSC-07
 Sample Date/Time: 10-NOV-99 1107
 Received Date: 11-NOV-99
 Batch: LUS115
 Blank: A
 Dry Weight %: 94
 Extraction Date: N/A
 Analysis Date: 16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	ND	1	
METHYL T-BUTYL ETHER	UG/KG	ND	6	
TOLUENE	UG/KG	0.9	6	I
XYLENES	UG/KG	0.8	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	100	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id: 003
 Client Sample Id: JPSC-08
 Sample Date/Time: 10-NOV-99 1109
 Received Date: 11-NOV-99
 Batch: LUS115
 Blank: A
 Dry Weight %: 92
 Extraction Date: N/A
 Analysis Date: 16-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	ND	1	
METHYL T-BUTYL ETHER	UG/KG	ND	6	
TOLUENE	UG/KG	0.8	6	I
XYLENES	UG/KG	0.5	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	99	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id:	005	Sample Date/Time:	10-NOV-99 1113
Client Sample Id:	JPSC-10	Received Date:	11-NOV-99
Batch: LUS115		Extraction Date:	N/A
Blank: B	Dry Weight %: 88	Analysis Date:	18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	0.3	1	I
METHYL T-BUTYL ETHER	UG/KG	ND	7	
TOLUENE	UG/KG	1.3	7	I
XYLENES	UG/KG	1.5	3	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	100	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5035Mod/5030BMod, SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: SOIL
 QC Level: IIMSRAW

Lab Id: 006
 Client Sample Id: JPSC-11
 Sample Date/Time: 10-NOV-99 1205
 Received Date: 11-NOV-99
 Batch: EXT061
 Blank: A
 Dry Weight %: 85
 Extraction Date: 17-NOV-99
 Analysis Date: 18-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	39	85	
ETHYL BENZENE	UG/KG	100	85	I
METHYL T-BUTYL ETHER	UG/KG	ND	430	
TOLUENE	UG/KG	ND	430	
XYLENES	UG/KG	710	170	
TRIFLUOROTOLUENE (PID)	%REC/SURR	94	70-130	
ANALYST	INITIALS	WEM		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911336
 Client: TASK ENVIRONMENTAL
 Project Number: E0105
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	007	Sample Date/Time:	
Client Sample Id:	TRIP BLANK	Received Date:	11-NOV-99
Batch:	LUS115	Extraction Date:	N/A
Blank:	A	Analysis Date:	17-NOV-99
	Dry Weight %:		N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	1.5	5	I
XYLENES (TOTAL)	UG/L	0.3	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	108	70-130	
ANALYST	INITIALS	DT		

Comments:

"Method Report Summary"

Accession Number: 911336
Client: TASK ENVIRONMENTAL
Project Number: E0105
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: BETX + MTBE (5035/8021B)

Client Sample Id:	Parameter:	Unit:	Result:
JPSC-06	ETHYL BENZENE	UG/KG	0.5
	TOLUENE	UG/KG	1.4
JPSC-07	XYLENES	UG/KG	1.8
	TOLUENE	UG/KG	0.9
JPSC-08	XYLENES	UG/KG	0.8
	TOLUENE	UG/KG	0.8
JPSC-09	XYLENES	UG/KG	0.5
	TOLUENE	UG/KG	1.0
JPSC-10	XYLENES	UG/KG	0.7
	ETHYL BENZENE	UG/KG	0.3
JPSC-11	TOLUENE	UG/KG	1.3
	XYLENES	UG/KG	1.5
	BENZENE	UG/KG	39
TRIP BLANK	ETHYL BENZENE	UG/KG	100
	XYLENES	UG/KG	710
	TOLUENE	UG/L	1.5
	XYLENES (TOTAL)	UG/L	0.3

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

J4	(For positive results)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$)
J5	(TICs)	The reported value is quantitated as a TIC; therefore, it is estimated
J6	(For positive results)	LCS or Surrogate %R is $>$ upper control limit (UCL) or $<$ lower control limit (LCL)
J7	(For positive results)	The reported value is $>$ the laboratory MDL and $<$ lowest calibration standards; therefore, the quantitation is an estimation.
J (AFCEE description)		The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$)
R2		Improper preservation, no preservative present in sample upon receipt
R3		Improper preservation, incorrect preservative present in sample upon receipt
R4		Holding time exceeded
R10		Holding time exceeded, non-reportable for NDPEs compliance monitoring
R5		Collection requirements not met, improper container used for sample
R6		LCS or surrogate %R is $<$ LCL and analyte is not detected or surrogate %R is $<$ 10% for detects/nondetects
R7		Internal standard area outside -50% to $+100\%$ of initial calibration midpoint standard.
R8		Initial calibration or any calibration verification exceeds acceptance criteria.
R9		Improper preservation, sample not filtered in the field.
R (AFCEE description)		The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F		$<$ laboratory or AFCEE RL and $>$ laboratory MDL
F (AFCEE description)		The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2		$<$ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)		The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)		The analyte was found in the associated blank, as well as in the sample
B1		Analyte was detected in the associated method blank.
@		Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+		Elevated reporting limit due to dilution into calibration range
* (Metals & Wet Chem)		Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
** (Organics)		Compounds flagged are not within the five point initial calibration curve. They are searched for qualitatively or as TICs.
#		Elevated reporting limit due to insufficient sample size
D		Diluted out
M		A matrix effect was present (sample was analyzed twice to confirm or chromatogram had interfering peaks)
S		Incorrect sample amount was submitted to the laboratory for analysis
T		Second-column confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC		Samples are searched for qualitatively as Tentatively Identified Compounds.
E		Compound concentration exceeds the upper calibration range of the instrument.
W		Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

ND = Not Detected at or above the STL-Pensacola reporting limit (RL)
IDL = Laboratory Instrument Detection Limit
RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)

N/S = Not Submitted N/A = Not Applicable
MDL = Laboratory Method Detection Limit

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative)

Florida Projects Inorganic/Organic

Y1		Improper preservation, no preservative present in sample upon receipt
Y2		Improper preservation, incorrect preservative present in sample upon receipt
Y3		Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)		The analysis was from an unpreserved or improperly preserved sample. Data may not be accurate
Q		Sample held beyond the accepted holding time
I		The reported value is $<$ Laboratory RL and $>$ laboratory MDL
U1		The reported value is \leq Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)		Indicates the compound was analyzed for but not detected
T		The reported value is $<$ Laboratory MDL (value shall not be used for statistical analysis)
V		The analyte was detected in both the sample and the associated method blank
J1		Surrogate recovery outside acceptance limits. Not enough sample available to reextract and/or reanalyze.
J2		The sample matrix interfered with the ability to make any accurate determinations
J3		The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)		Estimated value; not accurate

CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers.



RCA 899-7683

CHAIN OF CUSTODY

Severn Trent Laboratories

11 East Olive Road • Pensacola, FL 32514

Committed To Your Success Tel: (850) 474-1001 • Fax: (850) 474-4789

911336

LAB ACCESSION #

PART 1 - Bottle Shipment Information

CLIENT: <u>TASK ENVU</u>		CLIENT PROJECT NUMBER:																					
QUANTITY OF SAMPLE CONTAINERS SHIPPED <u>12</u>	PRESERVATIVE					PLASTIC CONTAINERS					GLASS CONTAINERS					NOTES							
	H ₂ SO ₄	HNO ₃	HCL	Zn Acetate	Na ₂ S ₂ O ₃	Unpreserved	NaOH	8 oz.	16 oz.	32 oz.	1/2 gallon	1 gallon	Whirl-pak	100-ML Cup	120 ml (A)		1 liter (A)	1 liter (C)	40 ml Vial	4 oz. wm	8 oz. wm	16 oz. wm	32 oz. wm
Relinquished By: <u>[Signature]</u>		Time: <u>1700</u>		Date: <u>11-8-99</u>		Received By: <u>[Signature]</u>		Time:		Date:													

PART 2 - Sample/Project Information

PARAMETERS AND PRESERVATIVES REQUESTED

SAMPLE MATRIX CODES				MATRIX	TOTAL # OF BOTTLES
DW	WW	GW			
DRINKING WATER	WASTEWATER	GROUNDWATER			
AI	SO	OI	AIR	SOIL	OIL
SW	SL	ST	SURFACE WATER	SLUDGE	STORMWATER
SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME	MATRIX		
JPSC-06	11/10/99	1105	Soil	✓	4
JPSC-07	↓	1107	Soil	✓	4
JPSC-08	↓	1109	Soil	✓	4
JPSC-09	↓	1110	Soil	✓	4
JPSC-10	↓	1113	Soil	✓	4
JPSC-11	↓	1204	Soil	✓	4
T.C.P. Blank			Water	✓	2

Total Number of Bottles/Containers:

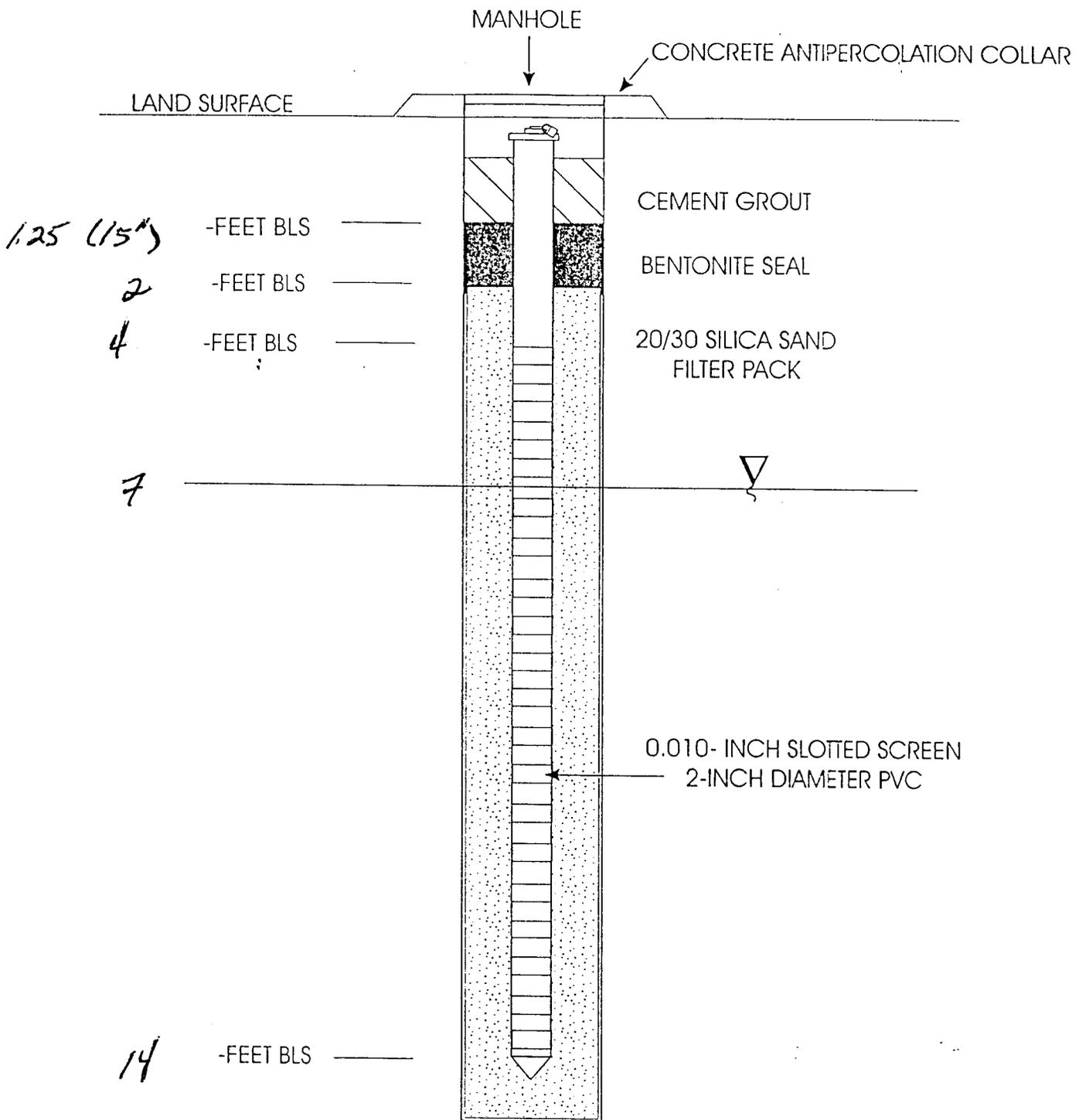
Relinquished By: <u>[Signature]</u>	Date: <u>11/11/99</u>	Time: <u>1610</u>	Received By: <u>[Signature]</u>	Date: <u>11-11-99</u>	Time: <u>0845</u>
-------------------------------------	-----------------------	-------------------	---------------------------------	-----------------------	-------------------

Client: <u>TASK Environmental</u>	Purchase Order Number:
Address: <u>501 S. Blvd</u>	Project Number: <u>EO105</u>
City: <u>Tampa</u>	State: <u>FL</u>
Zip: <u>33605</u>	Project Name: <u>Cecil Field</u>
Phone Number: <u>813-254-8838</u>	Fax Number: <u>813-254-8484</u>
Project Location: <u>JPS Jacksonville, FL</u>	Project Manager: <u>Jul Seck</u>
Sampled By: <u>Jul Seck</u>	

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
Standard - 14-21 days	<input checked="" type="checkbox"/>	
RUSH (must be approved in advance)		
< - 48 hours - 2x standard price		
3-7 days - 1.5x standard price		
TCLP - 1 week rush 1.5x standard price		
QC Level none I II III IV (circle one)		Copies of report needed <u>3</u>

Appendix F

Well Construction Logs



1.25 (15")

-FEET BLS

2

-FEET BLS

4

-FEET BLS

7

14

-FEET BLS

MANHOLE

CONCRETE ANTIPERCOLATION COLLAR

LAND SURFACE

CEMENT GROUT

BENTONITE SEAL

20/30 SILICA SAND
FILTER PACK

0.010-INCH SLOTTED SCREEN
2-INCH DIAMETER PVC

REF-PIPE-35

MONITOR WELL _____ CONSTRUCTION DIAGRAM
CECIL FIELD

11/16/99

7

TASK ENVIRONMENTAL, INC.
MONITOR WELL CONSTRUCTION LOG

Cecil Field
PROJECT

Diversified
Environmental Drilling Services, Inc.
DRILLER

CEF-PIPE-35
WELL IDENTIFICATION

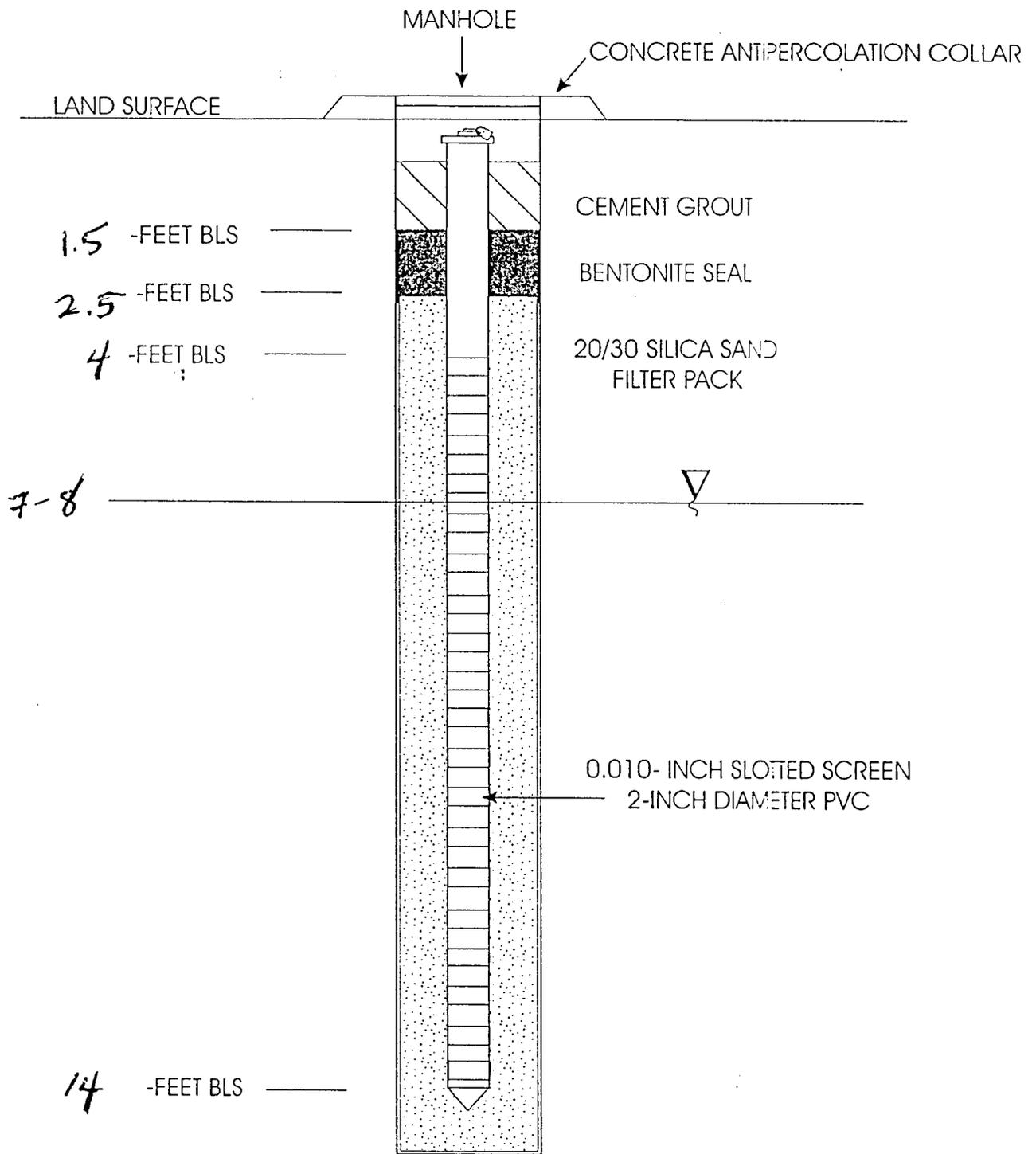
Hollow Stem Auger Method
DRILLING METHOD

11/16/99
DATE

Donna M. Cline
LOGGER

DEPTH - FEET BLS	FORMATION DESCRIPTION	COMMENTS
0 - 2 2 - 10	dark brown sandy soil - top soil fine sand - dk brown, plastic	
10 - 14	sand, tan-brown, medium grain	Sulfur color
	per Sum - we did not drain the well cuttings.	
	Supplies 5 bags of sand (#25' 0.75' bentonite) 1.0' cement grout 2 bags concrete	

11/16/99 Develop 1605 to 1635 ~ 35 gallons



MONITOR WELL CEF-PIPE-15 CONSTRUCTION DIAGRAM
 CECIL FIELD

11/16/99

**TASK ENVIRONMENTAL, INC.
MONITOR WELL CONSTRUCTION LOG**

Cecil Field
PROJECT

CEF-PIPE-15
WELL IDENTIFICATION

11/16/99
DATE

Diversified
Environmental Drilling Services, Inc.
DRILLER

Hollow Stem Auger Method
DRILLING METHOD

Donna M. Cline
LOGGER

DEPTH - FEET BLS	FORMATION DESCRIPTION	COMMENTS
0-4	sandy, tan (fill material) gw	
4-8'	dk brown sandy soil fine, plastic gw @ 7 ft depth	petroleum odor
8-14	sandy soil, dk brown, reddish color, silty, fine plastic	petroleum odor and sheen observed on wet soil
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>Supplies:</p> <ul style="list-style-type: none"> 5 bags sand 1' bentonite seal 1' cement grout 2 bags concrete </div>	

11/16/99

Develop 1510 to 1535

~ 25 gallons

Appendix G

Analytical Laboratory Reports for Confirmatory Groundwater Sample



ARRANGEMENT
JP5

Severn Trent Laboratories
11 East Olive Road
Pensacola FL 32514

Tel: (850) 474-1001
Fax: (850) 478-2671

SIGNATURE PAGE

Reviewed by:



STL Project Manager

Client: TASK ENVIRONMENTAL
TAMPA, FLORIDA

Project Name: CECIL FIELD, TANK REMOVAL
Project Number: E0150
Project Location: JACKSONVILLE, FL
Accession Number: 911612

Project Manager: SUSAN TOBIN
Sampled By: J. SEECH, D. CLINE

Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77064
- 200 Monroe Turnpike, Monroe CT 06468
- 55 South Park Drive, Colchester VT 05446
- 315 Fullerton Avenue, Newburgh NY 12550
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 90, Whippany NY 07981
- 77 New Durham Road, Edison NJ 08817

a part of

Severn Trent Services Inc

SEVERN TRENT LABORATORIES, INC. – PENSACOLA, FLORIDA
STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. 81142 (Drinking Water), Laboratory ID No. E81010 (Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. 98-25 (Drinking Water)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OcCH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES, Laboratory ID No. 250598-A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waste)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment, Health, & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Hazardous Waste and Wastewater by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Tennessee Division of Underground Storage Tanks Approved Laboratory

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Department: SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: GROUNDWATER
 QC Level: IXX

Lab Id: 002
 Client Sample Id: CEF-PIPE-3S
 Sample Date/Time: 18-NOV-99 1000
 Received Date: 19-NOV-99
 Batch: PAW323
 Blank: A Dry Weight %: N/A
 Extraction Date: 23-NOV-99
 Analysis Date: 24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	ND	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	ND	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	ND	1	
2-METHYLNAPHTHALENE	UG/L	ND	1	
2-CHLOROANTHRACENE	%REC/SURR	59	28-138	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: GROUNDWATER
 QC Level: IXX

Lab Id: 003
 Client Sample Id: CEF-PIPE-1S
 Sample Date/Time: 18-NOV-99 1055
 Received Date: 19-NOV-99
 Batch: PAW323
 Blank: A
 Dry Weight %: N/A
 Extraction Date: 23-NOV-99
 Analysis Date: 24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	1	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	5	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	38	1	
PHENANTHRENE	UG/L	6	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	120	1	
2-METHYLNAPHTHALENE	UG/L	100	1	
2-CHLOROANTHRACENE	%REC/SURR	100	28-138	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IXX

Lab Id:	005	Sample Date/Time:	18-NOV-99 1050
Client Sample Id:	CEF-PIPE-EB-11-18	Received Date:	19-NOV-99
Batch: PAW323		Extraction Date:	23-NOV-99
Blank: A	Dry Weight %: N/A	Analysis Date:	24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	ND	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	ND	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	ND	1	
2-METHYLNAPHTHALENE	UG/L	ND	1	
2-CHLOROANTHRACENE	%REC/SURR	95	28-138	
ANALYST	INITIALS	SB		

Comments:

[0] Page 6
Date 30-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IXX

Lab Id:	007	Sample Date/Time:		N/S
Client Sample Id:	BLANK	Received Date:	19-NOV-99	
Batch:	PAW323	Extraction Date:	23-NOV-99	
Blank:	A	Analysis Date:	24-NOV-99	
	Dry Weight %:		N/A	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	ND	1	
ACENAPHTHYLENE	UG/L	ND	1	
ANTHRACENE	UG/L	ND	1	
BENZO (a) ANTHRACENE	UG/L	ND	1	
BENZO (a) PYRENE	UG/L	ND	1	
BENZO (b) FLUORANTHENE	UG/L	ND	1	
BENZO (g, h, i) PERYLENE	UG/L	ND	1	
BENZO (k) FLUORANTHENE	UG/L	ND	1	
CHRYSENE	UG/L	ND	1	
DIBENZO (a, h) ANTHRACENE	UG/L	ND	1	
FLUORANTHENE	UG/L	ND	1	
FLUORENE	UG/L	ND	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	ND	1	
NAPHTHALENE	UG/L	ND	1	
PHENANTHRENE	UG/L	ND	1	
PYRENE	UG/L	ND	1	
1-METHYLNAPHTHALENE	UG/L	ND	1	
2-METHYLNAPHTHALENE	UG/L	ND	1	
2-CHLOROANTHRACENE	%REC/SURR	76	28-138	
ANALYST	INITIALS	SB		

Comments:

[0] Page 7
Date 30-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IXX

Lab Id:	008	Sample Date/Time:		N/S
Client Sample Id:	LCS	Received Date:	19-NOV-99	
Batch: PAW323		Extraction Date:	23-NOV-99	
Blank: A	Dry Weight %:	N/A	Analysis Date:	24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	6.1	1	
ACENAPHTHYLENE	UG/L	6.0	1	
ANTHRACENE	UG/L	13.2	1	
BENZO(a) ANTHRACENE	UG/L	10.1	1	
BENZO(a) PYRENE	UG/L	10.5	1	
BENZO(b) FLUORANTHENE	UG/L	10.0	1	
BENZO(g, h, i) PERYLENE	UG/L	13.7	1	
BENZO(k) FLUORANTHENE	UG/L	9.8	1	
CHRYSENE	UG/L	10.1	1	
DIBENZO(a, h) ANTHRACENE	UG/L	12.2	1	
FLUORANTHENE	UG/L	10.0	1	
FLUORENE	UG/L	7.9	1	
INDENO(1, 2, 3-cd) PYRENE	UG/L	9.5	1	
NAPHTHALENE	UG/L	8.5	1	
PHENANTHRENE	UG/L	8.7	1	
PYRENE	UG/L	9.0	1	
1-METHYLNAPHTHALENE	UG/L	7.6	1	
2-METHYLNAPHTHALENE	UG/L	7.2	1	
2-CHLOROANTHRACENE	%REC/SURR	99	28-138	
ANALYST	INITIALS	SB		

Comments:

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Date 30-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: POLYNUCLEAR AROMATICS BY 8310
 Analysis Method: 8310/SW-846, 3rd Ed, Sep 1986.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IXX

Lab Id:	009	Sample Date/Time:		N/S
Client Sample Id:	LCS DUPE	Received Date:	19-NOV-99	
Batch:	PAW323	Extraction Date:	23-NOV-99	
Blank:	A	Analysis Date:	24-NOV-99	
	Dry Weight %:		N/A	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/L	6.3	1	
ACENAPHTHYLENE	UG/L	6.1	1	
ANTHRACENE	UG/L	13.4	1	
BENZO (a) ANTHRACENE	UG/L	10.0	1	
BENZO (a) PYRENE	UG/L	10.2	1	
BENZO (b) FLUORANTHENE	UG/L	9.8	1	
BENZO (g, h, i) PERYLENE	UG/L	12.3	1	
BENZO (k) FLUORANTHENE	UG/L	9.6	1	
CHRYSENE	UG/L	10.0	1	
DIBENZO (a, h) ANTHRACENE	UG/L	10.4	1	
FLUORANTHENE	UG/L	9.7	1	
FLUORENE	UG/L	8.0	1	
INDENO (1, 2, 3-cd) PYRENE	UG/L	9.0	1	
NAPHTHALENE	UG/L	8.8	1	
PHENANTHRENE	UG/L	8.7	1	
PYRENE	UG/L	8.9	1	
1-METHYLNAPHTHALENE	UG/L	7.7	1	
2-METHYLNAPHTHALENE	UG/L	8.2	1	
2-CHLOROANTHRACENE	%REC/SURR	107	28-138	
ANALYST	INITIALS	SB		

Comments:

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	911612
Client:	TASK ENVIRONMENTAL
Project Number:	E0150
Project Name:	CECIL FIELD, TANK REMOVAL
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

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Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: GROUNDWATER
 QC Level: IX

Lab Id:	002	Sample Date/Time:	18-NOV-99	1000
Client Sample Id:	CEF-PIPE-3S	Received Date:	19-NOV-99	
Batch:	FLW170	Extraction Date:	24-NOV-99	
Blank:	A	Dry Weight %:	N/A	
		Analysis Date:	29-NOV-99	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	170	100	J6
ORTHO TER PHENYL	%REC/SURR	61	82-142	
NONATRIACONTANE	%REC/SURR	71	42-193	
ANALYST	INITIALS	KA		

Comments:

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Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: GROUNDWATER
 QC Level: IX

Lab Id:	003	Sample Date/Time:	18-NOV-99	1055
Client Sample Id:	CEF-PIPE-1S	Received Date:	19-NOV-99	
Batch:	FLW170	Extraction Date:	24-NOV-99	
Blank:	A	Analysis Date:	29-NOV-99	
	Dry Weight %:		N/A	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	2100	100	J6
ORTHO TER PHENYL	%REC/SURR	51	82-142	
NONATRIACONTANE	%REC/SURR	69	42-193	
ANALYST	INITIALS	KA		

Comments:

[0] Page 4
Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: GROUNDWATER
QC Level: IX

Lab Id:	004	Sample Date/Time:	18-NOV-99 1055
Client Sample Id:	CEF-PIPE-101S	Received Date:	19-NOV-99
Batch: FLW170		Extraction Date:	24-NOV-99
Blank: A	Dry Weight %: N/A	Analysis Date:	30-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	2600	100	J6
ORTHO TER PHENYL	%REC/SURR	57	82-142	
NONATRIACONTANE	%REC/SURR	72	42-193	
ANALYST	INITIALS	KA		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
Matrix: WATER
QC Level: IX

Lab Id: 005
Client Sample Id: CEF-PIPE-EB-11-18
Sample Date/Time: 18-NOV-99 1050
Received Date: 19-NOV-99
Batch: FLW170
Blank: A Dry Weight %: N/A
Extraction Date: 24-NOV-99
Analysis Date: 30-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100	R6
ORTHO TER PHENYL	%REC/SURR	29	82-142	
NONATRIACONTANE	%REC/SURR	40	42-193	
ANALYST	INITIALS	KA		

Comments:

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Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IX

Lab Id:	007	Sample Date/Time:		N/S
Client Sample Id:	BLANK	Received Date:	19-NOV-99	
Batch: FLW170		Extraction Date:	24-NOV-99	
Blank: A	Dry Weight %:	Analysis Date:	29-NOV-99	
	N/A			

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100	R6
ORTHO TER PHENYL	%REC/SURR	70	82-142	
NONATRIACONTANE	%REC/SURR	80	42-193	
ANALYST	INITIALS	KA		

Comments:

[0] Page 7
Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IX

Lab Id:	008	Sample Date/Time:	
Client Sample Id:	LCS	Received Date:	19-NOV-99 N/S
Batch:	FLW170	Extraction Date:	24-NOV-99
Blank:	A	Analysis Date:	29-NOV-99
	Dry Weight %:		N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	2200	100	J6
ORTHO TER PHENYL	%REC/SURR	60	82-142	
NONATRIACONTANE	%REC/SURR	39	42-193	
ANALYST	INITIALS	KA		

Comments:

[0] Page 8
Date 02-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: FLPRO\PETRO. HYDROCARBON RANGE C8-C40
 Analysis Method: FL DEP Method for Determination of Petroleum Range Organics (PRO), 1995.
 Extraction Method: 3510C/SW-846, 3rd Ed, 3rd Update, Dec 1996.
 Matrix: WATER
 QC Level: IX

Lab Id:	009	Sample Date/Time:		N/S
Client Sample Id:	LCS DUPE	Received Date:	19-NOV-99	
Batch: FLW170		Extraction Date:	24-NOV-99	
Blank: A	Dry Weight %: N/A	Analysis Date:	29-NOV-99	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	2800	100	J6
ORTHO TER PHENYL	%REC/SURR	78	82-142	
NONATRIACONTANE	%REC/SURR	46	42-193	
ANALYST	INITIALS	KA		

Comments:

Analysis Report

Analysis: BETX + MTBE (8021B)

Accession:	911612
Client:	TASK ENVIRONMENTAL
Project Number:	E0150
Project Name:	CECIL FIELD, TANK REMOVAL
Project Location:	JACKSONVILLE, FL
Department:	GC/VOA

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Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: GROUNDWATER
 QC Level: IIMSRAW

Lab Id:	002	Sample Date/Time:	18-NOV-99	1000
Client Sample Id:	CEF-PIPE-3S	Received Date:	19-NOV-99	
Batch:	ROW112	Extraction Date:	N/A	
Blank:	A	Dry Weight %:	N/A	
		Analysis Date:	26-NOV-99	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	0.5	1	I
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	112	84-115	
ANALYST	INITIALS	WEM		

Comments:

{0} Page 3
Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: GROUNDWATER
 QC Level: IIMSRAW

Lab Id: 003
 Client Sample Id: CEF-PIPE-1S
 Sample Date/Time: 18-NOV-99 1055
 Received Date: 19-NOV-99

Batch: ROW112
 Blank: A Dry Weight %: N/A
 Extraction Date: N/A
 Analysis Date: 26-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	1	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	114	84-115	
ANALYST	INITIALS	WEM		

Comments:

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Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: GROUNDWATER
 QC Level: IIMSRAW

Lab Id:	004	Sample Date/Time:	18-NOV-99 1055
Client Sample Id:	CEF-PIPE-101S	Received Date:	19-NOV-99
Batch: ROW112		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	26-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	1	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	113	84-115	
ANALYST	INITIALS	WEM		

Comments:

[0] Page 6
Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	006	Sample Date/Time:		N/S
Client Sample Id:	TRIP BLANK	Received Date:	19-NOV-99	
Batch: ROW111		Extraction Date:	N/A	
Blank: A	Dry Weight %:	Analysis Date:	24-NOV-99	
	N/A			

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	106	84-115	
ANALYST	INITIALS	WEM		

Comments:

[0] Page 7
Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	007	Sample Date/Time:		N/S
Client Sample Id:	BLANK	Received Date:	19-NOV-99	
Batch: ROW111		Extraction Date:	N/A	
Blank: A	Dry Weight %:	Analysis Date:	24-NOV-99	

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	111	84-115	
ANALYST	INITIALS	SK		

Comments:

[0] Page 8
Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	008	Sample Date/Time:		N/S
Client Sample Id:	LCS	Received Date:	19-NOV-99	
Batch: ROW111		Extraction Date:	N/A	
Blank: A	Dry Weight %:	Analysis Date:	24-NOV-99	
				N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	57	1	
ETHYL BENZENE	UG/L	59	1	
METHYL T-BUTYL ETHER	UG/L	104	5	
TOLUENE	UG/L	57	5	
XYLENES (TOTAL)	UG/L	170	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	107	84-115	
ANALYST	INITIALS	SK		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Test: BETX + MTBE (8021B)
Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Matrix: WATER
QC Level: IIMSRAW

Lab Id: 010
Client Sample Id: BLANK #2
Batch: ROW112
Blank: A

Dry Weight %: N/A

Sample Date/Time:
Received Date: 19-DEC-99
Extraction Date: N/A
Analysis Date: 26-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	ND	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	ND	5	
XYLENES (TOTAL)	UG/L	ND	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	109	84-115	
ANALYST	INITIALS	SK		

Comments:

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Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)
 Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
 Matrix: WATER
 QC Level: IIMSRAW

Lab Id:	011	Sample Date/Time:	
Client Sample Id:	LCS #2	Received Date:	19-DEC-99
Batch:	ROW112	Extraction Date:	N/A
Blank:	A	Analysis Date:	26-NOV-99
	Dry Weight %:		N/A

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	57	1	
ETHYL BENZENE	UG/L	56	1	
METHYL T-BUTYL ETHER	UG/L	89	5	
TOLUENE	UG/L	55	5	
XYLENES (TOTAL)	UG/L	160	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	106	84-115	
ANALYST	INITIALS	SK		

Comments:

[0] Page 11
Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Test: BETX + MTBE (8021B)
Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Matrix: WATER
QC Level: IIMSRAW

Lab Id: 012
Client Sample Id: 8260-TEMP-01-MS
Sample Date/Time: 19-DEC-99
Received Date: 19-DEC-99
Batch: ROW111
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	56	1	
ETHYL BENZENE	UG/L	58	1	
METHYL T-BUTYL ETHER	UG/L	86	5	
TOLUENE	UG/L	56	5	
XYLENES (TOTAL)	UG/L	170	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	110	84-115	
ANALYST	INITIALS	SK		

Comments:

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Date 23-Dec-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 911612
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD, TANK REMOVAL
Project Location: JACKSONVILLE, FL
Test: BETX + MTBE (8021B)
Analysis Method: 8021BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Extraction Method: 5030BMod/SW-846, 3rd Edition, Update III, Dec. 1996
Matrix: WATER
QC Level: IIMSRAW

Lab Id: 013
Client Sample Id: 8260-TEMP-01-MSD
Sample Date/Time:
Received Date: 19-DEC-99
Batch: ROW111
Blank: A
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 24-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	55	1	
ETHYL BENZENE	UG/L	58	1	
METHYL T-BUTYL ETHER	UG/L	88	5	
TOLUENE	UG/L	56	5	
XYLENES (TOTAL)	UG/L	170	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	108	84-115	
ANALYST	INITIALS	SK		

Comments:

"Method Report Summary"

Accession Number: 911612
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD, TANK REMOVAL
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (8021B)

Client Sample Id:	Parameter:	Unit:	Result:
860-TEMP-01	TOLUENE	UG/L	0.4
CEF-PIPE-3S	BENZENE	UG/L	0.5
CEF-PIPE-1S	ETHYL BENZENE	UG/L	1
CEF-PIPE-101S	ETHYL BENZENE	UG/L	1
CEF-PIPE-EB-11-18	TOLUENE	UG/L	25
LCS	BENZENE	UG/L	57
	ETHYL BENZENE	UG/L	59
	METHYL T-BUTYL ETHER	UG/L	104
	TOLUENE	UG/L	57
LCS #2	XYLENES (TOTAL)	UG/L	170
	BENZENE	UG/L	57
	ETHYL BENZENE	UG/L	56
	METHYL T-BUTYL ETHER	UG/L	89
	TOLUENE	UG/L	55
	XYLENES (TOTAL)	UG/L	160
8260-TEMP-01-MS	BENZENE	UG/L	56
	ETHYL BENZENE	UG/L	58
	METHYL T-BUTYL ETHER	UG/L	86
	TOLUENE	UG/L	56
	XYLENES (TOTAL)	UG/L	170
8260-TEMP-01-MSD	BENZENE	UG/L	55
	ETHYL BENZENE	UG/L	58
	METHYL T-BUTYL ETHER	UG/L	88
	TOLUENE	UG/L	56
	XYLENES (TOTAL)	UG/L	170
CEF-PIPE-1S-MS	BENZENE	UG/L	59
	ETHYL BENZENE	UG/L	61
	METHYL T-BUTYL ETHER	UG/L	100
	TOLUENE	UG/L	59
	XYLENES (TOTAL)	UG/L	170
CEF-PIPE-1S-MSD	BENZENE	UG/L	57
	ETHYL BENZENE	UG/L	57
	METHYL T-BUTYL ETHER	UG/L	100
	TOLUENE	UG/L	55
	XYLENES (TOTAL)	UG/L	160

Data Qualifiers for Final Report

STL-Pensacola Inorganic/Organic and AFCEE Projects (under QAPP)

J4	(For positive results)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $> 6^{\circ}\text{C}$)
J5	(TICs)	The reported value is quantitated as a TIC; therefore, it is estimated
J6	(For positive results)	LCS or Surrogate %R is $>$ upper control limit (UCL) or $<$ lower control limit (LCL)
J7	(For positive results)	The reported value is $>$ the laboratory MDL and $<$ lowest calibration standards; therefore, the quantitation is an estimation.
J (AFCEE description)		The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects)	Temperature limits exceeded ($\leq 2^{\circ}\text{C}$ or $\geq 6^{\circ}\text{C}$)
R2		Improper preservation, no preservative present in sample upon receipt
R3		Improper preservation, incorrect preservative present in sample upon receipt
R4		Holding time exceeded
R10		Holding time exceeded, non-reportable for NDPEs compliance monitoring
R5		Collection requirements not met, improper container used for sample
R6		LCS or surrogate %R is $<$ LCL and analyte is not detected or surrogate %R is $<$ 10% for detects/nondetects
R7		Internal standard area outside -50% to $+100\%$ of initial calibration midpoint standard.
R8		Initial calibration or any calibration verification exceeds acceptance criteria.
R9		Improper preservation, sample not filtered in the field.
R (AFCEE description)		The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F		$<$ laboratory or AFCEE RL and $>$ laboratory MDL
F (AFCEE description)		The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2		$<$ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)		The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)		The analyte was found in the associated blank, as well as in the sample
B1		Analyte was detected in the associated method blank.
@		Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+		Elevated reporting limit due to dilution into calibration range
* (Metals & Wet Chem)		Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
** (Organics)		Compounds flagged are not within the five point initial calibration curve. They are searched for qualitatively or as TICs.
#		Elevated reporting limit due to insufficient sample size
D		Diluted out
M		A matrix effect was present (sample was analyzed twice to confirm or chromatogram had interfering peaks)
S		Incorrect sample amount was submitted to the laboratory for analysis
T		Second-column confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC		Samples are searched for qualitatively as Tentatively Identified Compounds.
E		Compound concentration exceeds the upper calibration range of the instrument.
W		Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.

ND = Not Detected at or above the STL-Pensacola reporting limit (RL)
 IDL = Laboratory Instrument Detection Limit
 RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)

N/S = Not Submitted N/A = Not Applicable
 MDL = Laboratory Method Detection Limit

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative)

Florida Projects Inorganic/Organic

Y1		Improper preservation, no preservative present in sample upon receipt
Y2		Improper preservation, incorrect preservative present in sample upon receipt
Y3		Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)		The analysis was from an unpreserved or improperly preserved sample. Data may not be accurate
Q		Sample held beyond the accepted holding time
I		The reported value is $<$ Laboratory RL and $>$ laboratory MDL
U1		The reported value is \leq Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)		Indicates the compound was analyzed for but not detected
T		The reported value is $<$ Laboratory MDL (value shall not be used for statistical analysis)
V		The analyte was detected in both the sample and the associated method blank
J1		Surrogate recovery outside acceptance limits. Not enough sample available to reextract and/or reanalyze.
J2		The sample matrix interfered with the ability to make any accurate determinations
J3		The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)		Estimated value; not accurate

CLP and CLP-like Projects: Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers.



RCH B99-7797

CHAIN OF CUSTODY

Severn Trent Laboratories

11 East Olive Road • Pensacola, FL 32514
 Tel: (850) 474-1001 • Fax: (850) 474-4789

LAB ACCESSION # 911612

PART 1 - Bottle Shipment Information

CLIENT: <u>TASK ENV.</u>		CLIENT PROJECT NUMBER: <u>E0150</u>																			
QUANTITY OF SAMPLE CONTAINERS SHIPPED	PRESERVATIVE				PLASTIC CONTAINERS					GLASS CONTAINERS					NOTES						
	H ₂ SO ₄	HNO ₃	HCL	Zn Acetate	8 oz.	16 oz.	32 oz.	1/2 gallon	1 gallon	Whirl-pak	100-ML Cup	120 ml (A)	1 liter (A)	1 liter (C)		40 ml Vial	4 oz. wm	8 oz. wm	16 oz. wm	32 oz. wm	D.I. Trip Blank
9																					
9																					
2																					

Relinquished By: [Signature] Time 1426 Date 11-15-99 Received By: _____ Time _____ Date _____

PART 2 - Sample/Project Information

PARAMETERS AND PRESERVATIVES REQUESTED

SAMPLE MATRIX CODES				TOTAL # OF BOTTLES
DW DRINKING WATER	AI AIR	SW SURFACE WATER		
WW WASTEWATER	SO SOIL	SL SLUDGE		
GW GROUNDWATER	OI OIL	ST STORMWATER		
SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME	MATRIX	
860-TEMP-01	111899	0905	GW	4
CEF-PIPE-35	111899	1000	GW	4
CEF-PIPE-15	110899	1055	GW	4
CEF-PIPE-1015	111899	1055	GW	4
CEF-PIPE-EB-11-18	111899	1050	EB	4
TRIP BLANK	111899		TB	2

Total Number of Bottles/Containers: 22

Relinquished By: R. M. McCombs / TASK Date 111899 Time 1120 Received By: FEDEX Date 111899
Rob Ed 11/19/99 0910

Client <u>TASK ENVIRONMENTAL, INC.</u>	Purchase Order Number _____
Address <u>501 SOUTH BLVD</u>	Project Number <u>E0150</u>
City <u>TAMPA</u> State <u>FL</u> Zip <u>33606</u>	Project Name <u>CELL FIELD</u>
Phone Number (813) <u>254-8838</u> Fax Number (813) <u>254-8484</u>	Project Location <u>JACKSONVILLE FL</u>
Project Manager <u>SUSAN TOBIN</u>	Sampled By <u>J. SECH, D. CLINE</u>

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
Standard - 14-21 days	<input checked="" type="checkbox"/>	
RUSH (must be approved in advance)	<input type="checkbox"/>	<u>8021 - BTEX + MTBE *</u>
< - 48 hours - 2x standard price	<input type="checkbox"/>	
3-7 days - 1.5x standard price	<input type="checkbox"/>	
TCLP - 1 week rush 1.5x standard price	<input type="checkbox"/>	
QC Level none I II <u>III</u> IV (circle one)		Copies of report needed <u>3</u>