

N60200.AR.002296
NAS CECIL FIELD, FL
5090.3a

SOURCE REMOVAL REPORT FOR ABOVEGROUND STORAGE TANK REMOVAL AT
BUILDING 337 NAS CECIL FIELD FL
2/1/2000
CH2MHILL CONSTRUCTORS INC

**SOURCE REMOVAL REPORT
ABOVEGROUND STORAGE TANK REMOVAL AT BUILDING 337**

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

Revision No. 00

**Unit Identification Code: N60200
Contract No. N62467-98-D-0995
Contract Task Order No. 0002**

**Prepared by:
CH2M HILL Constructors, Inc.
115 Perimeter Center Place, N.E., Suite 700
Atlanta, Georgia 30346**

**Prepared for:
Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Bryan Kizer, Engineer-in-Charge

February 2000

**Source Removal Report
Aboveground Storage Tank Removal at
Building 337**

**Naval Air Station Cecil Field
Jacksonville, Florida**

Revision No. 00

Contract No. N62467-98-D-0995, CTO No. 0002

**Submitted to
Department of the Navy, Southern Division
Naval Facilities Engineering Command**

Prepared by



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

February 2000

Prepared/Approved By:

JoAnne Snelson (3m)

JoAnne Snelson, Project Manager

Date

Approved By:

Philip Altman

Philip Altman, Program Manager

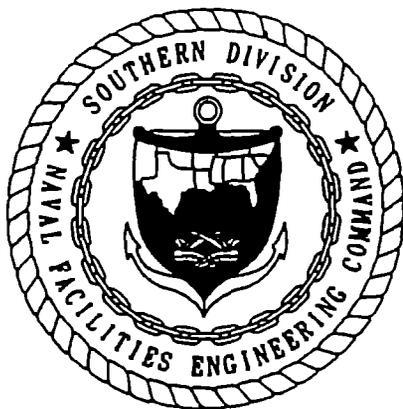
2/28/00

Date

Client Acceptance:

U.S. Navy Responsible Authority

Date



CERTIFICATION OF TECHNICAL
DATA CONFORMITY (JANUARY 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: February 25, 2000

NAME AND TITLE OF CERTIFYING OFFICIAL:

JoAnne T. Snelson, P.E.
Project Manager

DISTRIBUTION LIST

	<u>Copies</u>
Southern Division, Naval Facilities Engineering Command	1
NAS Cecil Field	2
Florida Department of Environmental Protection	1
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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
bls	below land surface
CCI	CH2M HILL Constructors Inc.
CTO	Contract Task Order
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FL-PRO	Florida Petroleum Residual Organics
KAG	kerosene analytical group
MTBE	methyl tert butyl ether
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
ND	Not Detected
OVA	organic vapor analyzer
PAHs	polynuclear aromatic hydrocarbons
ppm	parts per million
SCTLs	soil cleanup target levels
TRPH	total recoverable petroleum hydrocarbons
µg/L	micrograms per liter
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: Building 337

Date(s) of Source Removal: 09/08 – 10/08/99

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>33 tons of soil excavated and disposed of offsite</i>
4. Disposal or recycling methods for free product and contaminated soil	<i>Contaminated soils recycled at Soil Safe Technologies, Garden City, 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 the excavation.</i>
8. Type of field screening instrument or method used	<i>organic vapor analyzer(OVA)/flame ionization detector (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: 18 feet long x 6 feet wide x 8 feet deep (see Figure 2-1) One-250-gallon aboveground storage tank (AST), contained diesel fuel (see Figure 1-1)</i>
10. Dimensions of the excavation(s) and location(s) and capacities of replacement tanks	<i>Not Applicable. No replacement AST installed</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 8 feet below land surface (bls). Noted by visual observation (See Section 2.2.1)</i>
13. Type of petroleum or petroleum products discharged	<i>Diesel 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 F</i>
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	<i>Not Applicable. Soil was recycled offsite</i>

1.0 INTRODUCTION

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (NAVFAC) to perform aboveground storage tank (AST) removal, excavate petroleum-contaminated soil, and prepare a Source Removal Report for Building 337 at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. 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).

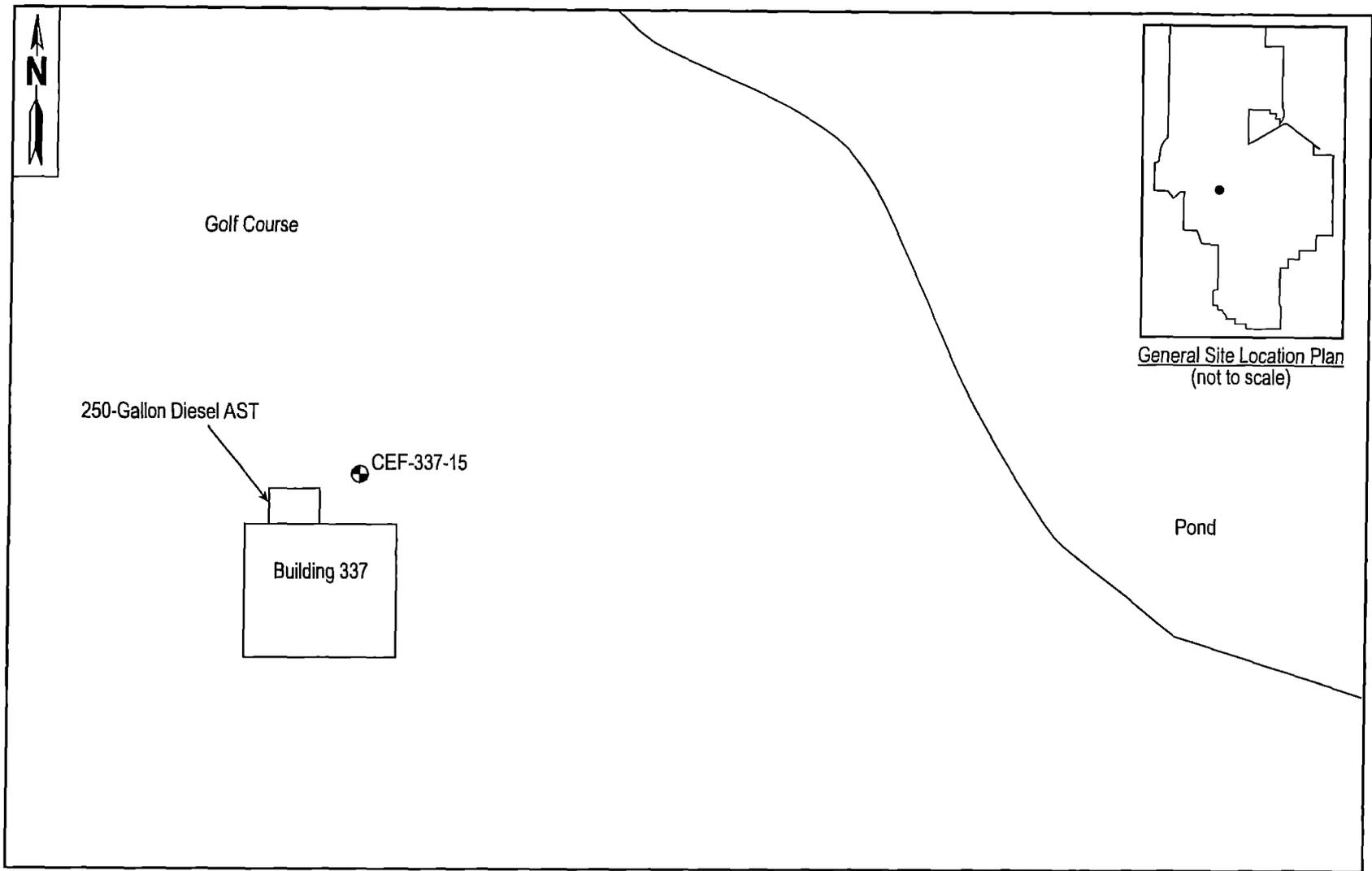
The scope of services for excavation of petroleum-contaminated soils at Site 337 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998a) and the Work Plan Addendum No. 2, Statement of Work No. 3, Revision 02, AST, UST, OWS and Contaminated Soil Removal (CCI, 1999). 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 one-250 gallon AST for storage of diesel fuel for golf course maintenance activities. The AST was located on the northern side of Building 337, near the green for the 3rd hole of the Fiddler's Green Golf Course at NAS Cecil Field. The installation date of the AST is unknown. A site plan showing the site conditions prior to the source removal is presented in Figure 1-1.

1.2 PROJECT OBJECTIVES

The primary objective of the soil excavation that was performed in conjunction with the AST removal at the site was to remove petroleum-contaminated soils that exceeded the soil cleanup target levels (SCTLs) outlined in FAC 62-770. FDEP allows the use of headspace organic vapor analyses (OVA) by flame ionizing detector (FID) as a screening tool in evaluating whether soil samples exceed the SCTLs. Soils exhibiting an OVA 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 OVA concentrations of less than 50 ppm were achieved or a permanent underground structure was encountered, then confirmatory sampling for the kerosene analytical group (KAG) was performed. The KAG analyses for soils includes volatile organic compounds (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 Organics (FL-PRO) method.



LEGEND

☉ Monitoring Well Location and Designation

0 10 20

SCALE: 1 INCH = 20 FEET

The legend box contains a title 'LEGEND' followed by a legend entry for a monitoring well symbol. Below this is a graphic scale bar with markings at 0, 10, and 20 units. To the right of the scale bar is the official seal of the Naval Facilities Engineering Command, Southern Division, which features a central shield with various symbols, surrounded by the text 'NAVAL FACILITIES ENGINEERING COMMAND' and 'SOUTHERN DIVISION'.

Figure 1-1
 Pre-excavation Site Conditions
 Tank 377 Source Removal Report
 NAS Cecil Field, Florida

2.0 SOURCE REMOVAL ACTIVITIES

A source removal was conducted at Building 337 during the period of September 8 to October 8, 1999. The tank was removed from the site on September 8. A total of 33 tons of petroleum-contaminated soil was excavated from the area beneath the former location of the AST and disposed of offsite on October 8. No free product was encountered during the excavation. Photographs showing the site before and after the source removal are presented in Appendix A. The film that contained the pictures that were taken during the source removal was damaged prior to development, therefore these pictures are not available.

2.1 SITE PREPARATION

In preparation for excavation, all utilities were marked out by the base maintenance contractor and Sunshine State One Call. One active direct-buried electric line was encountered during the excavation. The line was supported during excavation activities and reburied during backfill activities. No other active utilities were encountered during the AST removal or associated soil excavation.

2.2 SOIL EXCAVATION AND DISPOSAL

Soils were excavated to the north, east and west of the tanks based on the limits of the excessively contaminated soil delineated during the excavation. The delineation was performed by screening the walls of the excavation using headspace OVA analyses to determine if additional soil should be excavated. The excavation was limited to the south of the former AST location by the Building 337 foundation.

2.2.1 Soil Excavation

The soil was excavated to the water table, to a depth of approximately 8 feet below land surface (bls). The depth to groundwater was determined by visual inspection during the excavation

The soil was excavated using a trackhoe and was stockpiled on visqueen prior to being loaded into trucks. Based on the manifests, 33 tons of petroleum-contaminated soil were excavated and disposed of offsite. The excavation area was approximately 18 feet long, 6 feet wide, and 8 feet deep, corresponding to approximately 32 cubic yards. The excavation area is shown on Figure 2-1.

2.2.2 Soil Transportation and Recycle

The petroleum-contaminated soil was transported offsite by truck to the Soil Safe Technologies, Inc. soil thermal treatment facility in Garden City, Georgia. A summary of the manifests is presented in Table 2-1 and copies of the manifests are presented in Appendix B.

**TABLE 2-1
Summary of Manifests for Soil Disposal**

Date	Truck No.	Company	Manifest No.	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
10/08/99	774	Pritchett	144	64,440	23,281	39,180	20.58
10/08/99	702	Pritchett	149	64,440	39,600	24,840	12.42

All of the soil was recycled by the disposal facility into an asphalt mix for paving or other construction purposes. A copy of the Certificate of Recycle is provided in Appendix C.

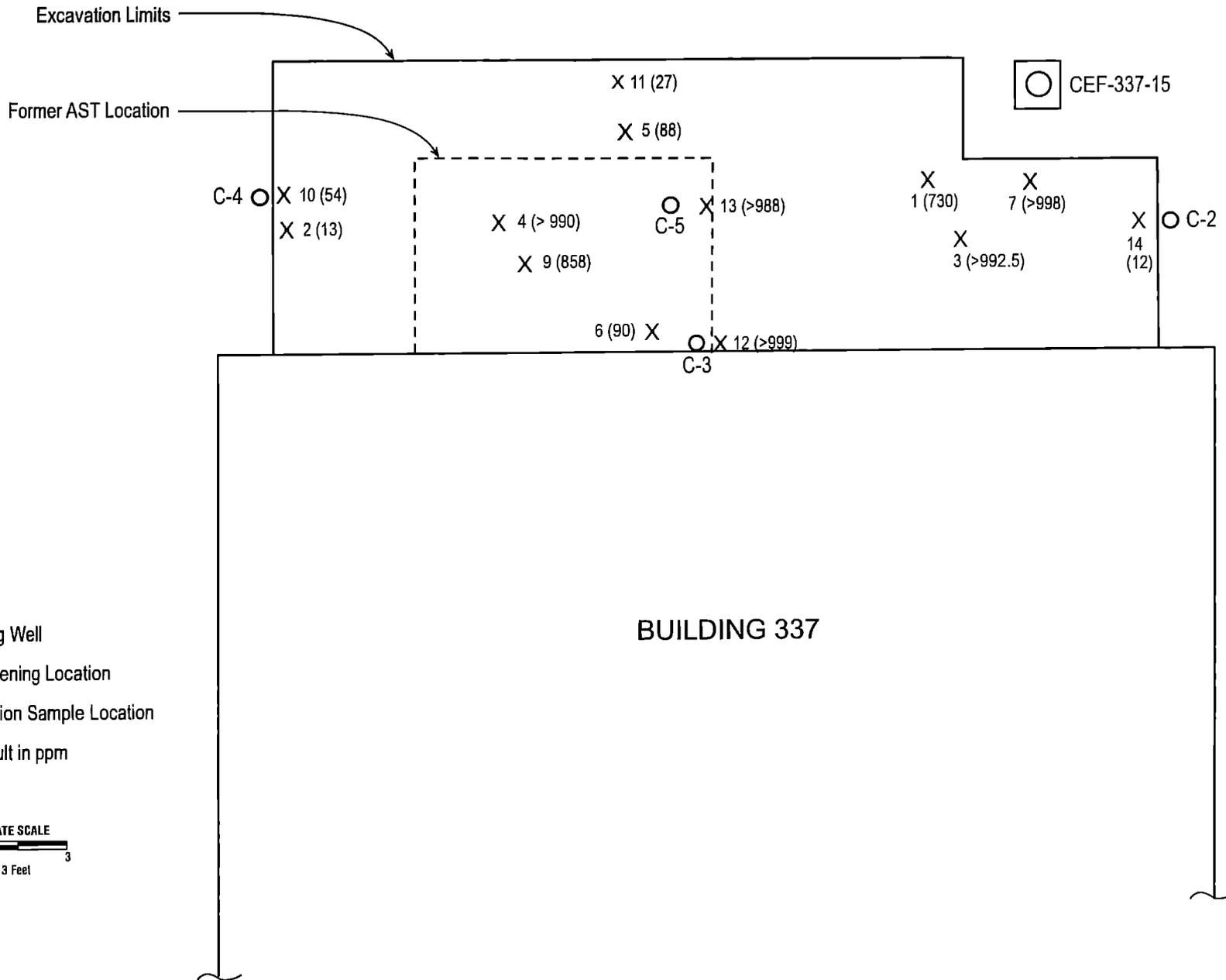


Figure 2-1
Soil Excavation Area
Building 337 Source Removal Report
NAS Cecil Field, Florida

2.2.3 Backfilling and Site Restoration

The material used to backfill the excavation was 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.

Once the excavation area was backfilled, the site was graded and seeded with a mixture of rye and bahia grass.

2.3 SAMPLING AND ANALYSIS

Soil samples were collected from the walls of the excavation at a depth of 8 feet bls and from the floor. One water sample was collected from a temporary well that was installed in the center of the excavation. The sampling locations are shown in Figure 2-1.

2.3.1 Headspace Analysis

Soil samples collected from the excavation were screened using an OVA equipped with an FID in accordance with the procedures outlined in 62-770.200(8) FAC. A methane filter was used to correct the results. The lateral excavation limits were expanded until headspace concentrations were below 50 ppm or until a permanent subsurface structure was reached. The results of the headspace analyses are shown in Table 2-2.

TABLE 2-2
Summary of Headspace Screening Results

Sample Location (see Figure)	Depth (ft bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)
1 (wall)	3	730	0	730
2 (wall)	3	13	0	13
3 (bottom)	4	>1000	7.5	>992.5
4 (bottom)	4	>1000	10	>990
5 (wall)	3	100	12	88
6 (wall)	3	100	10	90
7 (wall)	5	>1000	2	>998
8 (bottom)	5	>1000	1	>999
9 (bottom)	5	860	2	858
10 (wall)	5	56	2	54
11 (wall)	5	30	3	27
12 (wall)	5	>1000	1.5	>998.5
13 (bottom)	8	>1000	12	>988
14 (wall)	5	16	4	12

FID = flame ionization detector
ppm = parts per million

2.3.2 KAG Analyses of Soil Samples

Five soil samples were collected for KAG analyses. The sample that was collected from the bottom of the excavation was above the SCTLs for benzene, ethylbenzene, toluene and xylenes, and the sample collected from the south wall of the excavation was above the SCTLs for xylenes. Further excavation was precluded in the vertical direction by the water table, and to the south by the Building 337 foundation. The concentrations of the remaining samples were below the SCTLs for all KAG parameters. The analytical results are summarized in Table 2-3. The analytical laboratory report is provided in Appendix E.

TABLE 2-3
Summary of KAG Analyses for Soil

Sample Location	Depth (feet)	Sample ID	Date	Acenaphthylene	Anthracene	Benzo (g,h,i) Perylene	Dibenzo (a,h) Anthracene	Fluoranthene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
North Wall	4	CF-337-1N	10/12/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
East Wall	4	CF-337-2E	10/12/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	0.0008	0.0006	0.0009
South Wall	4	CF-337-3S	10/12/99	0.053	ND	ND	ND	ND	ND	0.033	ND	0.080	ND	0.590	ND	9.2	ND
West Wall	4	CF-337-4W	10/12/99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	ND	0.0065	0.006
Bottom	8	CF-337-5B	10/12/99	ND	0.012	0.029	0.140	0.028	0.018	0.088	0.150	0.270	0.140	2.1	1.4	15	ND
SCTL (Leachability)				27	2500	32000	30	1200	28	1.7	2.2	6.1	0.007	0.6	0.5	0.2	0.2

ND = Not Detected
 MTBE = methyl tert butyl ether
 SCTL = Soil Concentration Target Level per 62-777 FAC
 All values are reported in mg/kg

2.3.3 Temporary Well Installation and KAG Analyses of Groundwater Samples

A temporary well was installed in the center of the excavation on October 22, 1999. The well was screened from 5 to 15 feet bls. A sand pack was installed around the screened interval, and the well was developed until clear.

One groundwater sample was collected from the temporary well for KAG analysis on October 24, 1999. The concentrations were below the groundwater criteria per 62-770 FAC for all KAG parameters except xylenes. The xylenes concentration was 25 micrograms per liter ($\mu\text{g/L}$), which was below the Natural Attenuation Default Source Concentration (NADSC) of 200 $\mu\text{g/L}$ and was just above the groundwater criteria of 20 $\mu\text{g/L}$. The analytical results from the groundwater sample are summarized in Table 2-4. The analytical laboratory report for the groundwater sample is provided in Appendix F.

TABLE 2-4
Summary of KAG Analyses for Groundwater

Sample Location	Screened Interval	Site	Date	TRPH	Benzene	Ethylbenzene	Toluene	Xylenes
337-Temp-1	5' -15'	337	10/24/99	200	0.6	8	1.3	25
Groundwater Criteria				5000	1	30	40	20
Natural Attenuation Default Source Concentration				50000	100	300	400	200

All values reported in $\mu\text{g/L}$.
 $\mu\text{g/L}$ = micrograms per liter
 TRPH = Total Recoverable Petroleum Hydrocarbons
 KAG = Kerosene Analytical Group
 The Groundwater Criteria and Natural Attenuation Default Source Concentrations were taken from Chapter 62-777, F.A.C.

3.0 CONCLUSIONS

A total of 33 tons of petroleum-contaminated soils at Building 337 that were identified during the source removal have been removed and disposed of offsite. The soil was excavated to the water table, to a depth of approximately 8 feet bls. The horizontal limits of the excavation had headspace results (OVA with FID) of less than 50 ppm, except for the south wall which was under Building 337. Five soil samples were collected from the excavation for KAG analyses. The sample that was collected from the bottom of the excavation was above the SCTLs for benzene, ethylbenzene, toluene and xylenes, and the sample collected from the north wall of the excavation was above the SCTLs for xylenes. The remaining five samples were below SCTLs for all KAG parameters, confirming that the horizontal limits of soil contamination were reached, with the exception of the soil underneath Building 337. One groundwater sample that was collected for KAG analyses from a temporary well installed in the center of the excavation was below NADSC for all KAG parameters and was below the groundwater criteria for all KAG parameters except xylenes. No free product was encountered during the excavation.

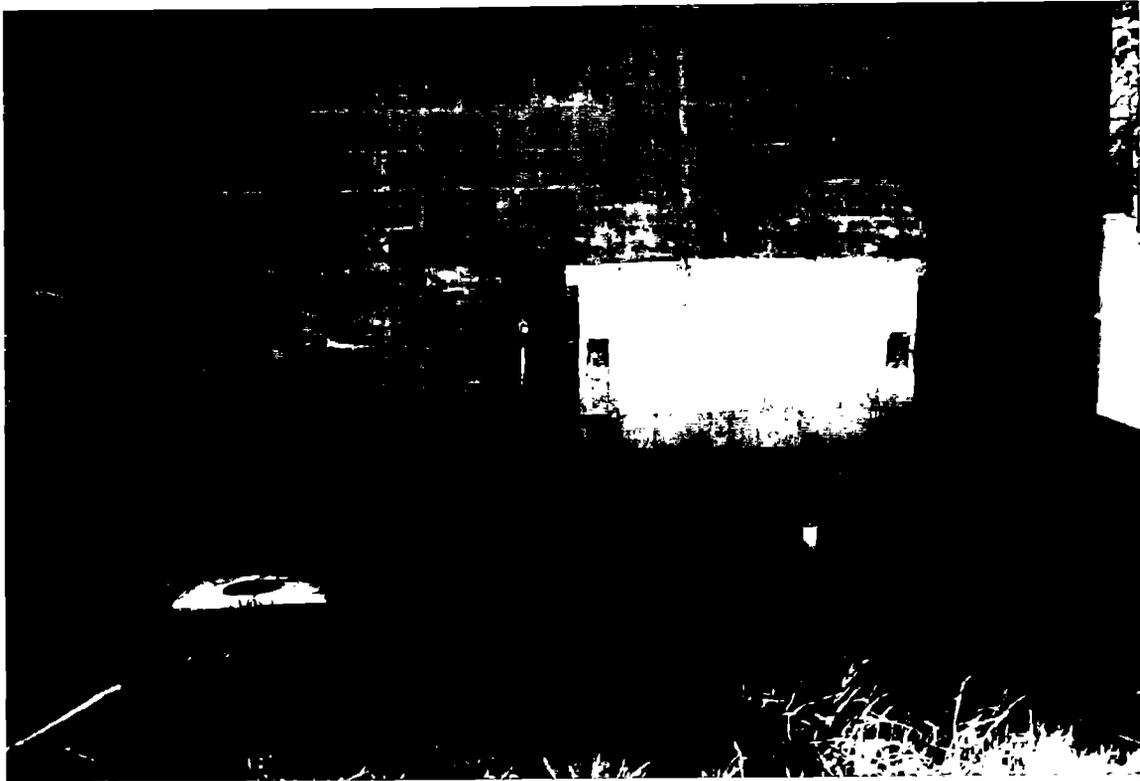
REFERENCES

ABB Environmental Services, Inc. (ABB-ES), 1999, Confirmatory Sampling Report, Building 337, NAS Cecil Field, Jacksonville, Florida, January.

CH2MHILL Constructors, Inc.(CCI), 1998, Basewide Work Plan, Revision 1, Contract No. N62467-98-D-0995, NAS Cecil Field, Jacksonville, Florida, November.

CH2MHILL Constructors, Inc. (CCI), 1999, Work Plan Addendum No. 2, AST, UST, OWS and Contaminated Soil Removal, Statement of Work No. 3, Revision 2, August.

APPENDIX A
PHOTOGRAPHS



Building 337 Subsequent to Tank Removal and Soil Excavation. Note Temporary Well Directly In Front of Former Tank Location.



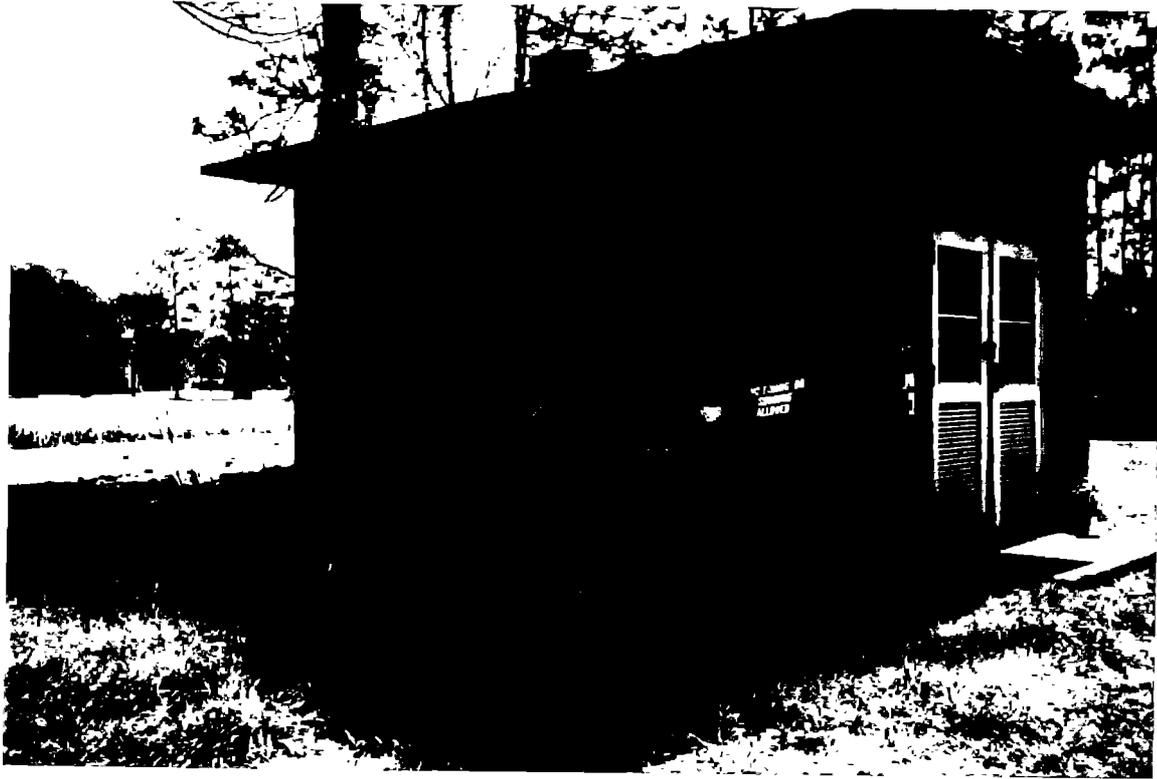
Building 337 Subsequent to Tank Removal and Soil Excavation (Looking West)



Concrete Block Housing Containing 250-gallon AST



Inside of Concrete Block Housing Subsequent to AST Removal (Bottomless Housing)



Building 337 Subsequent to Tank Removal and Soil Excavation (Looking East)

APPENDIX B
COPIES OF SOIL MANIFESTS

Site 337

SOIL SAFE TECHNOLOGIES INCORPORATED
NON-HAZARDOUS MATERIALS MANIFEST

PROJECT NUMBER: 0611S

MANIFEST NUMBER: 0611S- 144

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: 813-657-0747

SHIPPING ADDRESS: Cecil Field Jacksonville, FL

MATERIALS DESCRIPTION

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

GROSS WEIGHT: 64440 TARE WEIGHT: 23280 NET WEIGHT: 20.58 tons
(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

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

TRANSPORTER INFORMATION

TRANSPORTER: Pritchett Trucking TRUCK NUMBER: 774 LOAD DATE: 10-8-99
Hwy 121
Lake Butler, FL 32054 Phone: 904-496-2630

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

DRIVER SIGNATURE: Chester L. DeWanna

DESTINATION/RECEIVING INFORMATION

(Circle One)

SOIL SAFE TECHNOLOGIES
1618 DEAN FOREST RD.
GARDEN CITY, GA 31405

SOIL SAFE TECHNOLOGIES
10341 HWY 80 E.
BROOKLET, GA 30415

SOIL SAFE TECHNOLOGIES
SR 24
NEWINGTON, GA 30446

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: Del 8:45 PM 10-8-99
SIGNATURE OF AGENT OR DESIGNATED REPRESENTATIVE / RECEIPT DATE

PAUL M. LEWCZYK 912-925-6800

Chester L. DeWanna

SITE ~~293~~
SITE 337
SITE 293

SOIL SAFE TECHNOLOGIES INCORPORATED
NON-HAZARDOUS MATERIALS MANIFEST

149 #149

PROJECT NUMBER: 0611S

MANIFEST NUMBER: 0611S-_____

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: 813-657-0747

SHIPPING ADDRESS: Cecil Field Jacksonville, FL

MATERIALS DESCRIPTION

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

GROSS WEIGHT: ~~64440~~ ^{48,900 LBS} ~~lb~~ TARE WEIGHT: ~~24,060 LBS~~ NET WEIGHT: ~~7.77 TONS~~ ^{12.42 TONS (337)}
~~64440 TOTAL~~ ^(Seal indicates weights obtained from certified scales) ~~20.19 TOTAL~~ ⁽²⁹³⁾

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. KAWICKI David J. Kawicki
GENERATOR OR AUTHORIZED AGENT (PRINT) SIGNATURE DATE

TRANSPORTER INFORMATION

TRANSPORTER: Pritchett Trucking TRUCK NUMBER: 702 LOAD DATE: 10-8-99
Hwy 121
Lake Butler, FL 32054 Phone: 904-496-2630

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

DRIVER SIGNATURE: Timothy Gibson

DESTINATION/RECEIVING INFORMATION

(Circle One)

SOIL SAFE TECHNOLOGIES
1618 DEAN FOREST RD.
GARDEN CITY, GA 31405

SOIL SAFE TECHNOLOGIES
10341 HWY 80 E.
BROOKLET, GA 30415

SOIL SAFE TECHNOLOGIES
SR 24
NEWINGTON, GA 30446

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

Timothy Gibson
10-8-99
8:22 P.M.

AGENT NAME/PHONE NUMBER:

SIGNATURE OF AGENT OR DESIGNATED REPRESENTATIVE / RECEIPT DATE

APPENDIX C
CERTIFICATE OF RECYCLE

Soil Safe Technologies Incorporated

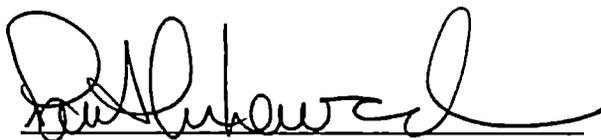
Certificate of Recycle

Soil Safe Technologies Incorporated accepted 3,328.1 measured tons of non-hazardous recyclable petroleum contaminated soil generated by the U.S. Navy from Cecil Field NAS, Jacksonville, Florida under approval number 4-0611.

This material was contracted by and between Soil Safe Technologies Incorporated and TASK Environmental, 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 6110001 through 6110149. A comprehensive list of manifest totals is included as an attachment to this certificate.

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



Wednesday, October 20, 1999

APPENDIX D
CERTIFICATION OF CLEAN FILL

M : 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,

A handwritten signature in cursive script that reads "Susan Henricks". The signature is written in dark ink and is positioned above the printed name.

Susan Henricks
Marietta Sand Corporation

AM : 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

Respectfully submitted,
 ELLIS & ASSOCIATES, INC.

John E. Ellis, II, P.E.

6/17/96

APPENDIX E

**ANALYTICAL LABORATORY REPORTS FOR
CONFIRMATORY SOIL SAMPLES**



337 8021, 8510 TPL

SIGNATURE PAGE

Reviewed by:

SC Akers for R. Hayes
STL Project Manager

Client: TASK ENVIRONMENTAL
TAMPA, FLORIDA

Project Name: CECIL FIELD
Project Number: E0150
Project Location: JACKSONVILLE, FL
Accession Number: 910388

Project Manager: SUSAN TOBIN
Sampled By: JOE SCECH/SUSAN TOBIN



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

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	910388
Client:	TASK ENVIRONMENTAL
Project Number:	E0150
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

[0] Page 1
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 001 Sample Date/Time: 12-OCT-99 1305
 Client Sample Id: CF-337C-102E Received Date: 13-OCT-99

Batch: FLS157 Extraction Date: 18-OCT-99
 Blank: A Dry Weight %: 74 Analysis Date: 21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	3.4	
ORTHO TER PHENYL	%REC/SURR	71	62-109	
NONATRIACONTANE	%REC/SURR	51	60-118	R6
ANALYST	INITIALS	HAH		

Comments:

[0] Page 2
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
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: III

Lab Id: 002 Sample Date/Time: 12-OCT-99 1300
Client Sample Id: CF-337C-2E Received Date: 13-OCT-99

Batch: FLS157 Extraction Date: 18-OCT-99
Blank: A Dry Weight %: 90 Analysis Date: 21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	
ORTHO TER PHENYL	%REC/SURR	75	62-109	
NONATRIACONTANE	%REC/SURR	55	60-118	R6
ANALYST	INITIALS	HAH		

Comments:

[0] Page 3
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 003 Sample Date/Time: 12-OCT-99 1315
 Client Sample Id: CF-337C-3S Received Date: 13-OCT-99

Batch: FLS157 Extraction Date: 18-OCT-99
 Blank: A Dry Weight %: 82 Analysis Date: 21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	3.1	
ORTHO TER PHENYL	%REC/SURR	113	62-109	J3
NONATRIACONTANE	%REC/SURR	86	60-118	
ANALYST	INITIALS	HAH		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	004	Sample Date/Time:	12-OCT-99 1325
Client Sample Id:	CF-337C-4W	Received Date:	13-OCT-99
Batch: FLS157		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: 89	Analysis Date:	21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	
ORTHO TER PHENYL	%REC/SURR	130	62-109	J3
NONATRIACONTANE	%REC/SURR	93	60-118	
ANALYST	INITIALS	HAH		

Comments:

[0] Page 7
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	007	Sample Date/Time:	12-OCT-99 1335
Client Sample Id:	337EQB	Received Date:	13-OCT-99
Batch: FLW142		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: N/A	Analysis Date:	22-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	95	82-142	
NONATRIACONTANE	%REC/SURR	84	42-193	
ANALYST	INITIALS	HHA		

Comments:

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Department: SEMI-VOLATILE FUELS

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 001 Sample Date/Time: 12-OCT-99 1305
 Client Sample Id: CF-337C-102E Received Date: 13-OCT-99
 Batch: PAS107 Extraction Date: 20-OCT-99
 Blank: A Dry Weight %: 74 Analysis Date: 22-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	14	
ACENAPHTHYLENE	UG/KG	ND	14	
ANTHRACENE	UG/KG	ND	14	
BENZO (a) ANTHRACENE	UG/KG	ND	14	
BENZO (a) PYRENE	UG/KG	ND	14	
BENZO (b) FLUORANTHENE	UG/KG	ND	14	
BENZO (g, h, i) PERYLENE	UG/KG	ND	14	
BENZO (k) FLUORANTHENE	UG/KG	ND	14	
CHRYSENE	UG/KG	ND	14	
DIBENZO (a, h) ANTHRACENE	UG/KG	ND	14	
FLUORANTHENE	UG/KG	ND	14	
FLUORENE	UG/KG	ND	14	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	ND	14	
NAPHTHALENE	UG/KG	ND	14	
PHENANTHRENE	UG/KG	ND	14	
PYRENE	UG/KG	ND	14	
1-METHYLNAPHTHALENE	UG/KG	ND	14	
2-METHYLNAPHTHALENE	UG/KG	ND	14	
2-CHLOROANTHRACENE	%REC/SURR	86	17-160	
ANALYST	INITIALS	SB		

Comments:

[0] Page 2
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 002
 Client Sample Id: CF-337C-2E
 Sample Date/Time: 12-OCT-99 1300
 Received Date: 13-OCT-99
 Batch: PAS107
 Blank: A
 Dry Weight %: 90
 Extraction Date: 20-OCT-99
 Analysis Date: 22-OCT-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	81	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 003
 Client Sample Id: CF-337C-3S
 Sample Date/Time: 12-OCT-99 1315
 Received Date: 13-OCT-99

Batch: PAS107
 Blank: A
 Dry Weight %: 82
 Extraction Date: 20-OCT-99
 Analysis Date: 23-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	12	
ACENAPHTHYLENE	UG/KG	53	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	33	12	
PHENANTHRENE	UG/KG	ND	12	
PYRENE	UG/KG	ND	12	
1-METHYLNAPHTHALENE	UG/KG	ND	12	
2-METHYLNAPHTHALENE	UG/KG	80	12	
2-CHLOROANTHRACENE	%REC/SURR	76	17-160	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 004 Sample Date/Time: 12-OCT-99 1325
 Client Sample Id: CF-337C-4W Received Date: 13-OCT-99
 Batch: PAS107 Extraction Date: 20-OCT-99
 Blank: A Dry Weight %: 89 Analysis Date: 23-OCT-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	µREC/SURR	82	17-160	
ANALYST	INITIALS	SB		

Comments:

[0] Page 5
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	005	Sample Date/Time:	12-OCT-99 1345
Client Sample Id:	CF-337C-5B	Received Date:	13-OCT-99
Batch:	PAS107	Extraction Date:	20-OCT-99
Blank:	A	Analysis Date:	23-OCT-99
	Dry Weight %:		81

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	12	
ACENAPHTHYLENE	UG/KG	ND	12	
ANTHRACENE	UG/KG	12	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	29	12	
BENZO (k) FLUORANTHENE	UG/KG	ND	12	
CHRYSENE	UG/KG	ND	12	
DIBENZO (a, h) ANTHRACENE	UG/KG	140	12	
FLUORANTHENE	UG/KG	28	12	
FLUORENE	UG/KG	ND	12	
INDENO (1, 2, 3-cd) PYRENE	UG/KG	18	12	
NAPHTHALENE	UG/KG	88	12	
PHENANTHRENE	UG/KG	ND	12	
PYRENE	UG/KG	ND	12	
1-METHYLNAPHTHALENE	UG/KG	150	12	
2-METHYLNAPHTHALENE	UG/KG	270	12	
2-CHLOROANTHRACENE	%REC/SURR	119	17-160	
ANALYST	INITIALS	SB		

Comments:

[0] Page 6
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 006 Sample Date/Time: 12-OCT-99 1250
 Client Sample Id: CF-337C-1N Received Date: 13-OCT-99
 Batch: PAS107 Extraction Date: 20-OCT-99
 Blank: A Dry Weight %: 87 Analysis Date: 23-OCT-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	78	17-160	
ANALYST	INITIALS	SB		

Comments:

"Method Report Summary"

Accession Number: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Test: POLYNUCLEAR AROMATICS BY 8310

Client Sample Id:	Parameter:	Unit:	Result:
CF-337C-3S	ACENAPHTHYLENE	UG/KG	53
	NAPHTHALENE	UG/KG	33
CF-337C-5B	2-METHYLNAPHTHALENE	UG/KG	80
	ANTHRACENE	UG/KG	12
	BENZO (g, h, i) PERYLENE	UG/KG	29
	DIBENZO (a, h) ANTHRACENE	UG/KG	140
	FLUORANTHENE	UG/KG	28
	INDENO (1, 2, 3-cd) PYRENE	UG/KG	18
	NAPHTHALENE	UG/KG	88
	1-METHYLNAPHTHALENE	UG/KG	150
2-METHYLNAPHTHALENE	UG/KG	270	

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: BETX + MTBE (5035/8021B)

Accession: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
Project Name: CECIL FIELD
Project Location: JACKSONVILLE, FL
Department: GC/VOA

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 001
 Client Sample Id: CF-337C-102E
 Sample Date/Time: 12-OCT-99 1305
 Received Date: 13-OCT-99
 Batch: LUS104
 Blank: A
 Dry Weight %: 74
 Extraction Date: N/A
 Analysis Date: 25-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	0.2	2	I
ETHYL BENZENE	UG/KG	0.6	2	I
METHYL T-BUTYL ETHER	UG/KG	2.1	9	I
TOLUENE	UG/KG	1.7	9	I
KYLENES	UG/KG	2.2	3	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	106	70-130	
ANALYST	INITIALS	DT		

Comments:

{0} Page 2
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 002 Sample Date/Time: 12-OCT-99 1300
 Client Sample Id: CF-337C-2E Received Date: 13-OCT-99
 Batch: LUS104 Extraction Date: N/A
 Blank: A Dry Weight %: 90 Analysis Date: 26-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
ETHYL BENZENE	UG/KG	0.1	1	I
METHYL T-BUTYL ETHER	UG/KG	0.9	6	I
TOLUENE	UG/KG	0.8	6	I
XYLENES	UG/KG	0.6	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	106	70-130	
ANALYST	INITIALS	DT		

Comments:

[0] Page 3
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 003
 Client Sample Id: CF-337C-3S
 Sample Date/Time: 12-OCT-99 1315
 Received Date: 13-OCT-99
 Batch: EXT053
 Blank: A
 Dry Weight %: 82
 Extraction Date: 22-OCT-99
 Analysis Date: 25-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	120	
ETHYL BENZENE	UG/KG	590	120	
METHYL T-BUTYL ETHER	UG/KG	ND	620	
TOLUENE	UG/KG	620	620	
XYLENES	UG/KG	9200	250	
TRIFLUOROTOLUENE (PID)	%REC/SURR	D	70-130	
ANALYST	INITIALS	SB		

Comments:

[0] Page 5
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 005 Sample Date/Time: 12-OCT-99 1345
 Client Sample Id: CF-337C-5B Received Date: 13-OCT-99
 Batch: EXT053 Extraction Date: 22-OCT-99
 Blank: A Dry Weight %: 81 Analysis Date: 25-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	140	140	I
ETHYL BENZENE	UG/KG	2100	140	
METHYL T-BUTYL ETHER	UG/KG	ND	710	
TOLUENE	UG/KG	1400	710	
XYLENES	UG/KG	15000	280	
TRIFLUOROTOLUENE (PID)	%REC/SURR	D	70-130	
ANALYST	INITIALS	SB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 006
 Client Sample Id: CF-337C-1N
 Sample Date/Time: 12-OCT-99 1250
 Received Date: 13-OCT-99
 Batch: LUS104
 Blank: A
 Dry Weight %: 87
 Extraction Date: N/A
 Analysis Date: 25-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	2	
ETHYL BENZENE	UG/KG	ND	2	
METHYL T-BUTYL ETHER	UG/KG	ND	9	
TOLUENE	UG/KG	ND	9	
XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE (PID)	%REC/SURR	111	70-130	
ANALYST	INITIALS	DT		

Comments:

[0] Page 7
Date 06-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 007
 Client Sample Id: 337EQB
 Sample Date/Time: 12-OCT-99 1335
 Received Date: 13-OCT-99
 Batch: LUS104
 Blank: A
 Dry Weight %: N/A
 Extraction Date: N/A
 Analysis Date: 26-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	ND	1	
ETHYL BENZENE	UG/L	0.1	1	I
METHYL T-BUTYL ETHER	UG/L	1.1	5	I
TOLUENE	UG/L	36	5	
XYLENES (TOTAL)	UG/L	0.3	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	112	70-130	
ANALYST	INITIALS	DT		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 008 Sample Date/Time: 12-OCT-99
 Client Sample Id: TRIP BLANK Received Date: 13-OCT-99
 Batch: LUS104 Extraction Date: N/A
 Blank: A Dry Weight %: N/A Analysis Date: 26-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	0.1	1	I
ETHYL BENZENE	UG/L	0.1	1	I
METHYL T-BUTYL ETHER	UG/L	0.9	5	I
TOLUENE	UG/L	7	5	
XYLENES (TOTAL)	UG/L	0.3	2	I
BROMOFLUOROBENZENE (PID)	%REC/SURR	109	84-115	
ANALYST	INITIALS	DT		

Comments:

"Method Report Summary"

Accession Number: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 Project Name: CECIL FIELD
 Project Location: JACKSONVILLE, FL
 Test: BETX + MTBE (5035/8021B)

Client Sample Id:	Parameter:	Unit:	Result:
CF-337C-102E	BENZENE	UG/KG	0.2
	ETHYL BENZENE	UG/KG	0.6
	METHYL T-BUTYL ETHER	UG/KG	2.1
	TOLUENE	UG/KG	1.7
	XYLENES	UG/KG	2.2
CF-337C-2E	ETHYL BENZENE	UG/KG	0.1
	METHYL T-BUTYL ETHER	UG/KG	0.9
	TOLUENE	UG/KG	0.8
	XYLENES	UG/KG	0.6
CF-337C-3S	ETHYL BENZENE	UG/KG	590
	TOLUENE	UG/KG	620
	XYLENES	UG/KG	9200
CF-337C-4W	ETHYL BENZENE	UG/KG	4
	TOLUENE	UG/KG	6.5
	XYLENES	UG/KG	6
CF-337C-5B	BENZENE	UG/KG	140
	ETHYL BENZENE	UG/KG	2100
	TOLUENE	UG/KG	1400
	XYLENES	UG/KG	15000
337EQB	ETHYL BENZENE	UG/L	0.1
	METHYL T-BUTYL ETHER	UG/L	1.1
	TOLUENE	UG/L	36
	XYLENES (TOTAL)	UG/L	0.3
TRIP BLANK	BENZENE	UG/L	0.1
	ETHYL BENZENE	UG/L	0.1
	METHYL T-BUTYL ETHER	UG/L	0.9
	TOLUENE	UG/L	7
	XYLENES (TOTAL)	UG/L	0.3



Severn Trent Laboratories, Inc.
 Pensacola, FL 32514
 Tel: (850) 474-1001
 Fax: (850) 478-2671

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 ND PES 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	\leq 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.	
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

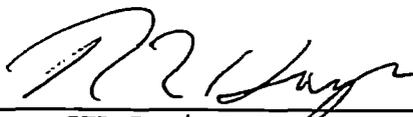
Y1	Improper preservation, no preservative present in sample upon receipt	
Y2	Improper preservation, incorrect preservative present in sample upon receipt	
Y3	Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt	
Y (FL description)	The analysis was from an unpreserved 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.



SIGNATURE PAGE

Reviewed by:



STL Project Manager

Client: TASK ENVIRONMENTAL
TAMPA, FLORIDA

Project Name: CECIL FIELD
Project Number: E0150
Project Location: JACKSONVILLE, FL
Accession Number: 910388

Project Manager: SUSAN TOBIN
Sampled By: JOE SCECH/SUSAN TOBIN

THIS IS A REVISED REPORT: November 10, 1999

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	910388
Client:	TASK ENVIRONMENTAL
Project Number:	E0150
Project Name:	CECIL FIELD
Project Location:	JACKSONVILLE, FL
Department:	SEMI-VOLATILE FUELS

[0] Page 2
Date 10-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	002	Sample Date/Time:	12-OCT-99 1300
Client Sample Id:	CF-337C-2E	Received Date:	13-OCT-99
Batch: FLS157		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: 90	Analysis Date:	21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	
ORTHO TER PHENYL	%REC/SURR	75	62-109	
NONATRIACONTANE	%REC/SURR	55	60-118	R6
ANALYST	INITIALS	HAH		

Comments:

[0] Page 3
Date 10-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
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: III

Lab Id:	003	Sample Date/Time:	12-OCT-99 1315
Client Sample Id:	CF-337C-3S	Received Date:	13-OCT-99
Batch: FLS157		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: 82	Analysis Date:	21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	3.1	
ORTHO TER PHENYL	%REC/SURR	113	62-109	
NONATRIACONTANE	%REC/SURR	86	60-118	
ANALYST	INITIALS	HAH		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	004	Sample Date/Time:	12-OCT-99 1325
Client Sample Id:	CF-337C-4W	Received Date:	13-OCT-99
Batch: FLS157		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: 89	Analysis Date:	21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.8	
ORTHO TER PHENYL	%REC/SURR	130	62-109	
NONATRIACONTANE	%REC/SURR	93	60-118	
ANALYST	INITIALS	HAH		

Comments:

[0] Page 5
Date 10-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id:	005	Sample Date/Time:	12-OCT-99 1345
Client Sample Id:	CF-337C-5B	Received Date:	13-OCT-99
Batch: FLS157		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: 81	Analysis Date:	21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	3.1	
ORTHO TER PHENYL	%REC/SURR	81	62-109	
NONATRIACONTANE	%REC/SURR	61	60-118	
ANALYST	INITIALS	HAH		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
 Client: TASK ENVIRONMENTAL
 Project Number: E0150
 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: III

Lab Id: 006
 Client Sample Id: CF-337C-1N
 Sample Date/Time: 12-OCT-99 1250
 Received Date: 13-OCT-99

Batch: FLS157
 Blank: A
 Dry Weight %: 87
 Extraction Date: 18-OCT-99
 Analysis Date: 21-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	2.9	
ORTHO TER PHENYL	%REC/SURR	85	62-109	
NONATRIACONTANE	%REC/SURR	63	60-118	
ANALYST	INITIALS	HAH		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 910388
Client: TASK ENVIRONMENTAL
Project Number: E0150
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: III

Lab Id:	007	Sample Date/Time:	12-OCT-99 1335
Client Sample Id:	337EQB	Received Date:	13-OCT-99
Batch: FLW142		Extraction Date:	18-OCT-99
Blank: A	Dry Weight %: N/A	Analysis Date:	22-OCT-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	UG/L	ND	100	
ORTHO TER PHENYL	%REC/SURR	95	82-142	
NONATRIACONTANE	%REC/SURR	84	42-193	
ANALYST	INITIALS	HHA		

Comments:



RLH B99 - 6974
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

910388

LAB ACCESSION #

PART 1 - Bottle Shipment Information

CLIENT: <u>TASK ENV.</u>		CLIENT PROJECT NUMBER:																						
QUANTITY OF SAMPLE CONTAINERS SHIPPED	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	1 oz. wm	8 oz. wm	16 oz. wm	32 oz. wm	D.I. Trip Blank
2 set			X															X						
			X																					
			X																					
			X																					
Relinquished By: <u>[Signature]</u>		Time		Date		Received By:		Time		Date														
				10-11-99																				

PART 2 - Sample/Project Information				PARAMETERS AND PRESERVATIVES REQUESTED																			
SAMPLE MATRIX CODES																							
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	80210A	8310	FL-PRD																	TOTAL # OF BOTTLES
CF-337C-10ZE	10/12/99	1305	SO	✓	✓	✓																	4
CF-337C-2E	10/12/99	1300	SO	✓	✓	✓																	4
CF-337C-3S	10/12/99	1315	SO	✓	✓	✓																	4
CF-337C-4W	10/12/99	1325	SO	✓	✓	✓																	4
CF-337C-5B	10/12/99	1345	SO	✓	✓	✓																	4
337EQB	10/12/99	1335	W	✓	✓	✓																	4
Trip Blank	10/12/99		W	✓																			2

Total Number of Bottles/Containers:						
Relinquished By: <u>S. J. [Signature]</u>	Date: <u>10/12/99</u>	Time: <u>1425</u>	Received By: <u>[Signature]</u>	Date: <u>10-13-99</u>	Time: <u>0830</u>	

Client: <u>TASK Environmental</u>	Purchase Order Number:
Address: <u>501 S. Boulevard</u>	Project Number: <u>E0150</u>
City: <u>Tampa</u> State: <u>FL</u> Zip: <u>33606</u>	Project Name: <u>Coal Field</u>
Phone Number: <u>(813) 254-8830</u> Fax Number: <u>(813) 254-8834</u>	Project Location: <u>Jacksonville, FL</u>
Project Manager: <u>S. Toan</u>	Sampled By: <u>J. Seach, S. Toan</u>

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
Standard - 14-21 days	✓	CH2M Hill Coal Field format w/ electronic deliverables.
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 <u>III</u> IV (circle one)		Copies of report needed <u>1</u>

APPENDIX F

**ANALYTICAL LABORATORY REPORT FOR
CONFIRMATORY GROUNDWATER SAMPLE**

CTO-02 6.06.
1511, 842, 824, 31, 334,
337, 81
water 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: TANK REMOVAL
Project Number: N/S
Project Location: CECIL FIELD, FL
Accession Number: 910764

Project Manager: SUSAN TOBIN
Sampled By: P. KRAUSE/D. KLINE

Other Laboratory Locations:

- 148 Rangway Road, North Billerica MA 01852
- 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

Analysis Report

Analysis: BETX + MTBE (8021B)

Accession:	910764
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	TANK REMOVAL
Project Location:	CECIL FIELD, FL
Department:	GC/VOA

"FINAL REPORT FORMAT - SINGLE"

Accession: 910764
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: TANK REMOVAL
 Project Location: CECIL FIELD, 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:	008	Sample Date/Time:	22-OCT-99 1615
Client Sample Id:	337-TEMP-01	Received Date:	23-OCT-99
Batch: ROW103		Extraction Date:	N/A
Blank: A	Dry Weight %: N/A	Analysis Date:	02-NOV-99

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/L	0.6	1	I
ETHYL BENZENE	UG/L	8	1	
METHYL T-BUTYL ETHER	UG/L	ND	5	
TOLUENE	UG/L	1.3	5	I
XYLENES (TOTAL)	UG/L	25	2	
TRIFLUOROTOLUENE (PID)	%REC/SURR	145	84-115	
ANALYST	INITIALS	WEM		

Comments:

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: FLPRO\PETRO. HYDROCARBON RANGE C8-C40

Accession:	910764
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	TANK REMOVAL
Project Location:	CECIL FIELD, FL
Department:	SEMI-VOLATILE FUELS

SEVERN TRENT LABORATORIES

11 East Olive Road Pensacola, Florida 32514 (850) 474-1001

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8310

Accession:	910764
Client:	TASK ENVIRONMENTAL
Project Number:	N/S
Project Name:	TANK REMOVAL
Project Location:	CECIL FIELD, FL
Department:	SEMI-VOLATILE FUELS

[0] Page 4
Date 04-Nov-99

"FINAL REPORT FORMAT - SINGLE"

Accession: 910764
 Client: TASK ENVIRONMENTAL
 Project Number: N/S
 Project Name: TANK REMOVAL
 Project Location: CECIL FIELD, 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: IIMS

Lab Id: 008 Sample Date/Time: 22-OCT-99 1615
 Client Sample Id: 337-TEMP-01 Received Date: 23-OCT-99
 Batch: PAW301 Extraction Date: 27-OCT-99
 Blank: A Dry Weight %: N/A Analysis Date: 30-OCT-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	80	28-138	
ANALYST	INITIALS	SB		

Comments:

PLH B99-7130

CHAIN OF CUSTODY



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

LAB ACCESSION # 910764

PART 1 - Bottle Shipment Information

CLIENT: <u>TASK ENV</u>	CLIENT PROJECT NUMBER: <u>F0150</u>																						
QUANTITY OF SAMPLE CONTAINERS SHIPPED	PRESERVATIVE										PLASTIC CONTAINERS					GLASS CONTAINERS					NOTES		
	H ₂ SO ₄	HNO ₃	HCL	Zn Acetate	NH ₂ S ₂ O ₈	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: [Signature] Time 1733 Date 10-19-99 Received By: [Signature] Time 800 Date 10-20-99

PART 2 - Sample/Project Information

SAMPLE MATRIX CODES				PARAMETERS AND PRESERVATIVES REQUESTED																			
DW DRINKING WATER	AI AIR	SW SURFACE WATER	8024B																				
WW WASTEWATER	SO SOIL	SL SLUDGE	8310																				
GW GROUNDWATER	OI OIL	ST STORMWATER	FLRO																				
SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME	MATRIX	8260	8270	RCRAB	FLPRO																TOTAL # OF BOTTLES
15U-TEMP-01	10.22.99	0845	GW	✓	✓	✓																	4
842-TEMP-01	10.22.99	1000	GW	✓	✓	✓																	4
824-TEMP-01	10.22.99	1135	GW					✓	✓	✓	✓												6
MW-31S	10.22.99	1330	GW	✓	✓	✓																	4
CEF-334-EB-1022	10.22.99	1425	GW					✓	✓	✓	✓												6
CEF-334-2S	10.22.99	1435	GW					✓	✓	✓	✓												6
CEF-334-102S	10.22.99	1440	GW					✓	✓	✓	✓												6
337-TEMP-01	10.22.99	1615	GW	✓	✓	✓																	4
81-TEMP-01	10.22.99	1720	GW	✓	✓	✓																	4
TRIP BLANKS (2)	10.22.99			✓																			4
Total Number of Bottles/Containers																						48	

Relinquished By: [Signature] Date 10-27-99 Time 1 Received By: [Signature] Date 10/23/99 Time 1030

Client TASK Environmental Purchase Order Number _____
 Address 501 S. Boulevard Project Number _____
 City Tampa State FL Zip 33604 Project Name CECILFIELD
 Phone Number (813) 254-8320 Fax Number (813) 254-8487 Project Location _____
 Project Manager Susan Tolson Sampled By P. KRUISE / D. LUNE

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
Standard - 14-21 days	✓	8021 (BFTX + MTBE) ONLY
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 _____