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NAS CECIL FIELD, FL
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THIRD QUARTER GROUNDWATER MONITORING REPORT FOR NORTH FUEL FARM
WITH TRANSMITTAL LETTER NAS CECIL FIELD FL
9/21/2010
SOLUTIONS-IES INC

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Industrial & Environmental Services

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September 21, 2010

Mr. Art Sanford
NAVFAC SE, BRAC PMO
4130 Faber Place Drive, Suite 202
North Charleston, South Carolina 29405

Re.: North Fuel Farm, 3rd Quarter Groundwater Monitoring Report
BOA Contract N62467-05-G-0193/0002
NAS Cecil Field
Solutions-IES Project No. 8030.08A2.NAVF

Dear Mr. Sanford:

Attached is the 3rd Quarter Groundwater Monitoring Report for the North Fuel Farm Site at NAS Cecil Field, Jacksonville, Florida. Solutions-IES has begun preparing annual reports for this site with the data from each quarterly event being presented at BCT meetings. However, the annual report prepared for the North Fuel Farm site did not include the data from the 3rd quarter 2009 event. The Florida Department of Environmental Protection (FDEP) requested that the results of the 3rd quarter 2009 monitoring event be submitted. This report has been prepared to summarize field activities conducted in September 2009. A copy of this report has been submitted to the members of the NAS Cecil Field Partnering Team, as shown below, for review and comment.

If you have any questions or need any additional information, please feel free to contact us at (919) 873-1060.

Yours truly,
Solutions-IES

Jessica L. Keener
Project Manager

Brian M. Rebar
Senior Project Manager

cc: Mr. Gregory Fraley, USEPA (1 copy)
Mr. David Grabka, FDEP (1 copy)
Mr. Rob Simcik, TetraTech NUS (electronic)

THIRD QUARTER
GROUNDWATER MONITORING AND
OPERATION AND MAINTENANCE REPORT
SEPTEMBER 2009

NORTH FUEL FARM
FORMER NAS CECIL FIELD
JACKSONVILLE, FL

CONTRACT NO. N62467-05-G-0193
CONTRACT TASK ORDER NO. 0003

Prepared for:

NAVFAC SOUTHEAST, BRAC PMO
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Prepared by:

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SOLUTIONS-IES PROJECT NO. 8030.08A2.NAVF

SEPTEMBER 17, 2010

Solutions-IES
Industrial & Environmental Services

SIGNATURE PAGE

We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.

JESSICA LYNN KEENER
LICENSE
No. PG2538
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

Jessica L. Keener 9/20/10

Jessica L. Keener, P.G. — Date — Registration No.
Project Manager

B. M. R 9/20/10

Brian M. Rebar — Date
Senior Project Manager

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1.0 INTRODUCTION

Solutions-IES, Inc. (Solutions-IES) has been contracted by the Navy (NAVFAC Southeast) to provide long-term groundwater monitoring and operation and maintenance (O&M) at the North Fuel Farm (NFF) site, Former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Basic Ordering Agreement (BOA) Contract Number N62467-05-G-0193, Contract Task Order Number 0003. Under this contract, Solutions-IES, with support from Terraine, Inc., performs quarterly groundwater monitoring and weekly O&M of the air sparge (AS) system. Solutions-IES submitted quarterly reports for the first and second quarter monitoring events in March and June 2009. The results from the September 2009 third quarter monitoring event were initially presented during the November 2009 Base Closure Team (BCT) meeting in lieu of a formal report. Solutions-IES subsequently submitted a fourth quarter monitoring report for December 2009. However, in a letter dated July 13, 2010, the Florida Department of Environmental Protection (FDEP) requested that the 2009 third quarter monitoring results be submitted in a formal report. This Third Quarter Groundwater Monitoring Report describes the third quarter monitoring activities performed at the site on September 15, 2009, and the weekly O&M activities performed at the site from June 16, 2009, through August 31, 2009.

1.1 SITE LOCATION AND DESCRIPTION

The site is located at the northeast corner of Aviation Avenue and Loop Road at NAS Cecil Field. A site map is included as **Figure 1**.

1.2 SITE HISTORY

The NFF site formerly contained six 595,000-gallon JP-5 jet fuel storage tanks (TtNUS, 2004). Two of the tanks were installed in 1952 and four tanks were installed in 1954. Overflow protection was installed on all of the tanks in 1987. One of the tanks (76E) was removed from service in 1991 when a leak was discovered. The remaining five storage tanks, along with the earthen containment berm and associated impacted soil, were removed from the site in 2000 and 2001. Several spills from the tanks were identified at the NFF site. A spill of approximately 23,000 gallons occurred in 1987 and an additional 913,000 gallons were spilled in 1991. Corrective action to address the petroleum impacts was completed in 1991 and a Corrective Action Completion Report was submitted in 1992. Approximately 140,000 tons of fuel-

impacted soil were removed from the site (CH2M HILL, 2008). A supplemental investigation was completed in 1994 to assess impacts from an 1,800 gallon spill that occurred in November 1993.

Results of previous investigations conducted to determine the extent of impact from the petroleum releases indicated groundwater contamination above the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) for the following constituents: benzene, ethylbenzene, toluene and xylenes (BTEX); naphthalene; 1-methylnaphthalene and 2-methylnaphthalene. The extent of petroleum contamination extends to the water table from depths of approximately 5 feet below ground surface (ft bgs) to approximately 110 ft bgs. It was estimated that an area of approximately 917,000 square feet was impacted with contaminants at concentrations exceeding the GCTLs (TtNUS, 2004).

A combination of remediation techniques was chosen for the site including AS, biosparge (BS) and soil vapor extraction (SVE). The AS system was installed in areas where benzene concentrations exceeded 1,000 micrograms per liter (µg/L). Eighty-two vertical AS wells were installed in these areas. The BS system was installed in areas where benzene concentrations ranged from 100 µg/L to 1,000 µg/L. One hundred twenty-five vertical BS wells were installed in these areas. The SVE system was installed in the footprint of the AS system to capture vapor released as a result of the AS system operation. Ten horizontal SVE collection lines were installed at a depth of approximately 3 ft bgs in these areas.

Full-scale operation of the remediation systems began in mid-July 2005. The SVE system was shut down due to heavy entrainment of groundwater in November 2005. CH2M HILL conducted an optimization study of the system and provided their recommendations in a report submitted in June 2008. The report recommended redefining the target treatment areas based on updated groundwater data, reconfiguring the treatment system and continued sampling of the existing monitoring well network on a quarterly basis for one year to determine the need for future use (CH2M HILL, 2008). The AS system was reconfigured and restarted in November 2008, but ran sporadically through March 2009 due to maintenance issues. Solutions-IES began the O&M of the system in March 2009.

2.0 GROUNDWATER MONITORING SUMMARY

During the September 2009 monitoring event, water levels were recorded and groundwater samples were collected for laboratory analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), total recoverable petroleum hydrocarbons (TRPH), sulfide, sulfate, total organic

carbon (TOC) and total inorganic carbon (TIC) from the wells listed below. Locations of the wells are illustrated on **Figure 2**.

Monitoring Well	Analysis
CEF-372-13R	VOCs, PAHs, TRPH
CEF-076-49S	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-50I	VOCs, PAHs, TRPH
CEF-076-57S	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-61I	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-70I	VOCs, PAHs, TRPH
CEF-076-93S	VOCs, PAHs, TRPH
CEF-076-94S	VOCs, PAHs, TRPH
CEF-076-95S	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-98D	VOCs, PAHs, TRPH
CEF-076-99D	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-100D	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-110D	VOCs, PAHs, TRPH
CEF-076-113S	VOCs, PAHs, TRPH
CEF-076-116D	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon
CEF-076-117D	VOCs, PAHs, TRPH, sulfide, sulfate, organic carbon, inorganic carbon

2.1 MONITORING WELL OBSERVATIONS

The integrity of the monitoring wells included in the long-term monitoring plan was evaluated during the sampling event. The field team noted no extensive damage (i.e., the need for well replacement or repair) to the wells during the September 2009 event.

2.2 WATER LEVEL MEASUREMENTS

Water level measurements were recorded in 16 wells on September 15, 2009. **Table 1** shows current and historical groundwater measurements at the site from October 2007 through the September 2009 sampling event. Groundwater contour maps were not prepared for the site because of the small amount of data

collected compared to the relative area over which the wells are located. However, historical groundwater elevations suggest groundwater flow at the site is towards the south (CH2M HILL, 2007).

2.3 GROUNDWATER SAMPLING

2.3.1 Methodology

Groundwater sampling was conducted at the site on September 15, 2009. Sixteen monitoring wells were purged and sampled using low-flow methodology in general accordance with the FDEP, FS 2200 Groundwater Sampling Procedures (December 2008) and the Solutions-IES Work Plan (September 2008). The wells were purged immediately before sampling using a low-flow peristaltic pump, at a rate equal to or less than the groundwater recharge rate, until field parameters (temperature, pH, conductivity, turbidity and dissolved oxygen [DO]) stabilized. Oxidation-reduction potential (ORP) was also recorded. Water levels in the wells were continuously monitored during purging to maintain minimal drawdown. Samples were also collected from eight wells for field analysis of DO using CHEMetrics® field test kits.

Samples were stored on ice and delivered via courier under chain-of-custody procedures to Accutest Laboratories Southeast, Inc. (Accutest), a Florida-certified and National Environmental Laboratory Accreditation Program certified laboratory located in Orlando, Florida.

2.3.2 Laboratory Analysis

Groundwater samples collected at the site were analyzed for the following:

- VOCs by EPA Method 8260B;
- PAHs by EPA Method 8310;
- TRPH by method FL-PRO;
- Sulfide by method SM20 4500S F;
- Sulfate by EPA Method 300/SW846 9056;
- Total organic carbon by method SM19 5310B/SW 9060A; and
- Total inorganic carbon by method SM20 5310B, 9060M.

A Level II data report was provided by the laboratory and is included in **Appendix A**.

2.4 INVESTIGATION-DERIVED WASTE (IDW)

Purge, wash and rinse water from the September 2009 event was collected in 5-gallon containers and transferred to a 270-gallon tote labeled SIES-09162009-002. The drum was staged in the IDW Storage

Building (Building 536). The NAS Jacksonville Public Works Department (PWD-JAX) was notified on September 29, 2009, that the drum was being stored in the building. The Hazardous Waste IDW Characterization Summary Report for disposal was forwarded to PWD-JAX on October 22, 2009.

3.0 SAMPLING AND ANALYTICAL RESULTS

3.1 DATA REVIEW

Accutest data analysts reviewed their data according to their laboratory standard operating procedures (SOPs) for Level II quality control/quality assurance reporting. As indicated in the laboratory case narratives (**Appendix A**), several quality control constituents were outside recovery limits for several methods run by the lab due to possible matrix interference, high bias, sample non-homogeneity, low spike amount relative to sample amount or low duplicate and sample concentrations. TOC in well CEF-076-61I was considered an estimated value above the laboratory calibration range. Methylene chloride reported in CEF-076-113S was qualified as a suspected laboratory contaminant. The review also resulted in several data qualifiers. These are shown with the analyte concentrations in **Table 2** and **3**.

3.2 FIELD PARAMETERS

Temperature, pH, conductivity, turbidity, DO and ORP were measured with direct read meters in all 16 wells during purging. DO was also measured at the completion of purging in eight wells using CHEMetrics® field test kits. Results of the field measurements for September 2009 are shown on **Table 2**. Copies of the groundwater sampling logs for September 2009 are provided in **Appendix B**. A summary of the field parameter measurements is shown below:

- pH ranged from 2.68 to 7.03 standard units (SU);
- Conductivity ranged from 107 to 9,286 microSiemens per centimeter (µS/cm);
- Turbidity ranged from 1 to 90 nephelometric turbidity units (NTU);
- ORP ranged from -84.9 to 417.2 millivolts (mV); and
- DO measured with CHEMetrics® field test kits ranged from 0 to 1 milligrams per liter (mg/L).

3.3 LABORATORY RESULTS FOR NATURAL ATTENUATION PARAMETERS

Groundwater samples were collected for laboratory analysis of natural attenuation parameters including sulfate, sulfide, TOC and TIC from eight wells during the September 2009 monitoring event. Results of

the laboratory natural attenuation parameters are shown on **Table 2** and the laboratory analytical report is included in **Appendix A**. A summary of the laboratory analytical results for natural attenuation parameters is shown below:

- Sulfide ranged from 0.64 to 14.2 mg/L while sulfate generally ranged from 1.7 to 5,970 mg/L with the exception of well CEF-076-116D which contained 12,100 mg/L sulfate; and
- TOC ranged from 1.7 to 49.9 mg/L while TIC ranged from 6.3 to 95.3 mg/L.

3.4 LABORATORY RESULTS FOR VOCS, PAHS AND TRPH

Benzene, ethylbenzene, xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene were reported above the regulatory limits during this reporting period. Well locations and constituent concentrations in excess of regulatory limits are shown on **Figure 3**.

- Benzene exceeded the GCTL of 1 microgram per liter (µg/L) in 11 wells during the September 2009 event. Benzene exceeded the Natural Attenuation Default Source Concentration (NADSC) of 100 µg/L in wells CEF-076-70I, CEF-076-110D and CEF-076-113S at concentrations of 108 µg/L, 166 µg/L and 9,460 µg/L, respectively;
- Ethylbenzene was reported in well CEF-076-113S at a concentration of 319 µg/L which exceeds the NADSC of 300 µg/L;
- Xylenes were reported above the GCTL of 20 µg/L in wells CEF-076-70I (98 µg/L) and CEF-076-93S (47.5 µg/L) and exceeded the NADSC of 200 µg/L in well CEF-076-113S (814 µg/L);
- Isopropylbenzene was reported above the GCTL of 0.8 µg/L in wells CEF-076-61I (1.1 µg/L) and CEF-076-93S (1.3 µg/L) and above the NADSC of 8 µg/L in wells CEF-076-70I (8 µg/L) and CEF-076-113S (28.6 µg/L);
- 1,2,4-Trimethylbenzene concentration exceeded the GCTL of 10 µg/L in wells CEF-076-61I (14.7 µg/L) and CEF-076-70I (62.4 µg/L). The concentration of 1,2,4-trimethylbenzene was detected above the NADSC of 100 µg/L in well CEF-076-113S (112 µg/L);
- 1,3,5-Trimethylbenzene concentration exceeded the GCTL of 10 µg/L in wells CEF-076-70I (19.1 µg/L) and CEF-076-113S (42.5 µg/L);
- Naphthalene was detected above the GCTL in well CEF-076-113S at 37.7 µg/L; and
- Methylene chloride was reported at a concentration of 190 µg/L in well CEF-076-113S which exceeds the NADSC of 50 µg/L. Methylene chloride was also identified in the laboratory case narrative as a suspected laboratory contaminant.

The laboratory results are summarized in **Table 3** and the laboratory analytical report is included in **Appendix A**. Graphs displaying the historical benzene concentrations in select shallow, intermediate and deep wells; historical ethylbenzene concentrations in select wells; historical xylenes concentrations in select wells and historical isopropylbenzene concentrations in select wells are included as **Figures 4** through **9**, respectively.

4.0 AIR SPARGE SYSTEM O&M SUMMARY

Air is currently being injected into 66 AS wells across the site. The system is programmed to run 24 hours a day and inject air into 33 wells for seven days and then inject air into the other 33 wells for seven days, so at any given moment, 33 wells are operational. The individual flow rates and pressures for each well are shown on the O&M forms included in **Appendix C**. The shallow AS wells are shown on **Figure 10** and the deep AS wells are shown on **Figure 11**.

The AS system was restarted on June 16, 2009, following the June 2009 quarterly groundwater sampling event, and shut down for maintenance on June 24, 2009. The system remained down until June 29 due to electrical issues. The AS system was restarted on June 29 and ran continuously until a power loss occurred on August 3, 2009. Solutions-IES performed an emergency O&M site visit on August 5, 2009 to restore power to the system and optimize the system settings. During the visit, Solutions-IES, with support from Kaeser Compressors, performed system repairs to pressure regulators, pressure gauges, valves, auto drains and flow meters. The system was restarted on August 6, following the repairs, and shut down on August 31, 2009, prior to the September sampling event. Weekly measurements during this time indicate that the flow rate per well was generally in the range of 2 to 10 standard cubic feet per minute (SCFM) with peaks up to 20+ SCFM observed.

5.0 CONCLUSIONS

The concentrations of several constituents of concern remained above regulatory limits in several wells during the third quarter 2009 groundwater sampling event. In particular, benzene was detected above the GCTL in 8 of 16 wells sampled and exceeded the NADSC in 2 wells. Well CEF-076-113S appeared to be the most highly impacted well with six constituents detected above the NADSCs.

Air is currently being injected into 66 AS wells across the site. The AS system ran continuously from June 10, 2009, through August 30, 2009, except for an eight-day shutdown for maintenance activities and when it was shut down for the third quarter sampling event . The system was restarted on September 15 after the third quarter groundwater sampling event was completed.

6.0 REFERENCES

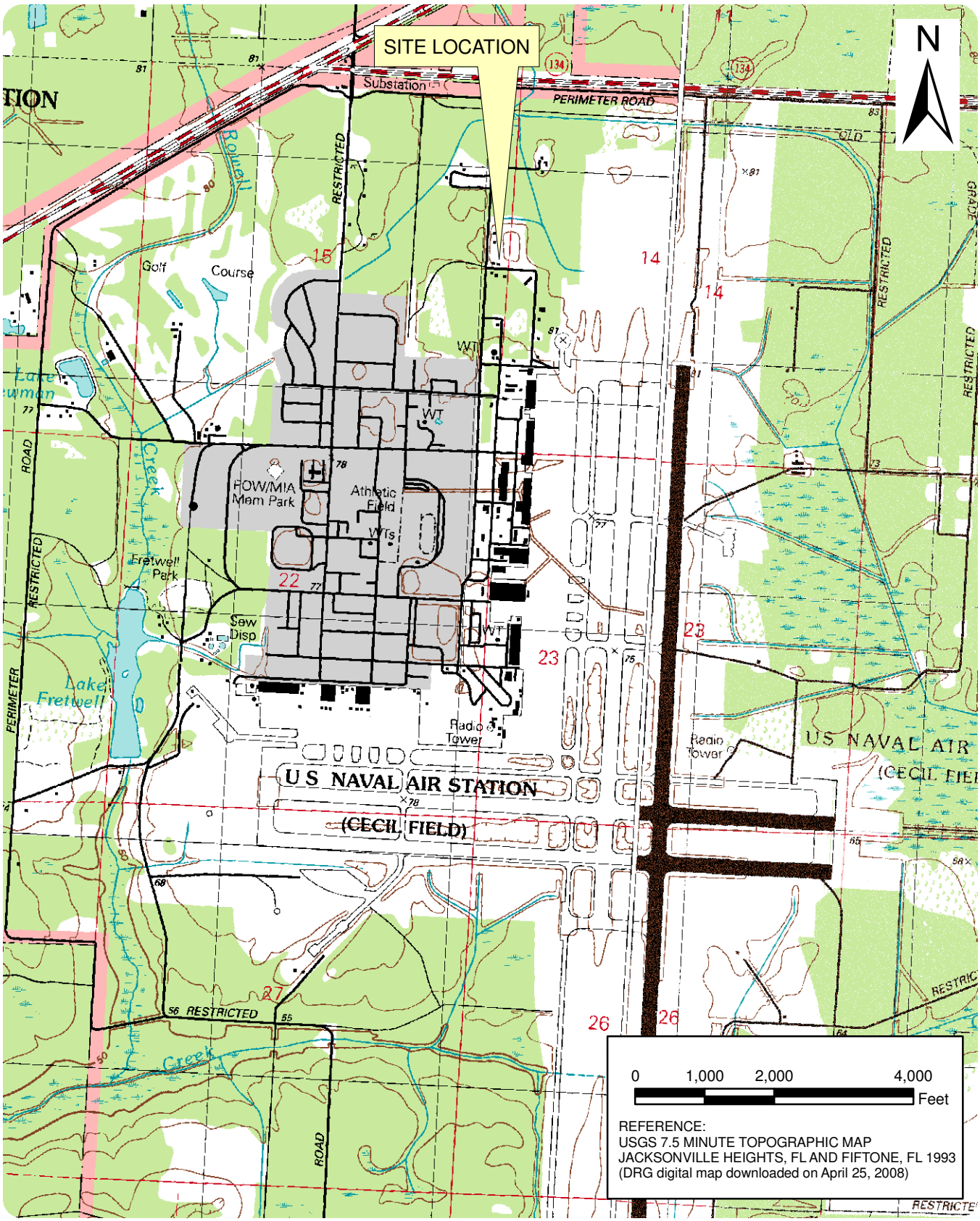
CH2M HILL, 2008. Optimization Report for Air Sparging/Biosparging Treatment System, North Fuel Farm Site, Former Naval Air Station Cecil Field, Jacksonville, Florida. Technical Memorandum. June 2008.

TetraTech NUS, 2004. Remedial Action Plan Addendum for North Fuel Farm, Naval Air Station Cecil Field, Jacksonville, Florida. March 2004.

CH2M HILL, 2007. Operations and Monitoring Status Report October 2006 – May 2007. Air Sparge, Biosparge and SVE System North Fuel Farm Area Remediation Project, Naval Air Station Cecil Field, Jacksonville, Florida. November 2007.

Florida Department of Environmental Protection (FDEP), 2008. DEP-SOP-001/01, FS 2200 Groundwater Sampling, December 2008.

FIGURES



PROJECT NUMBER 8030.08A2.NAVF

DRAFTER JC

CHECKED BY JD

PROJECT MANAGER BR

DATE 11/07/08

FILE Fig 1.pdf

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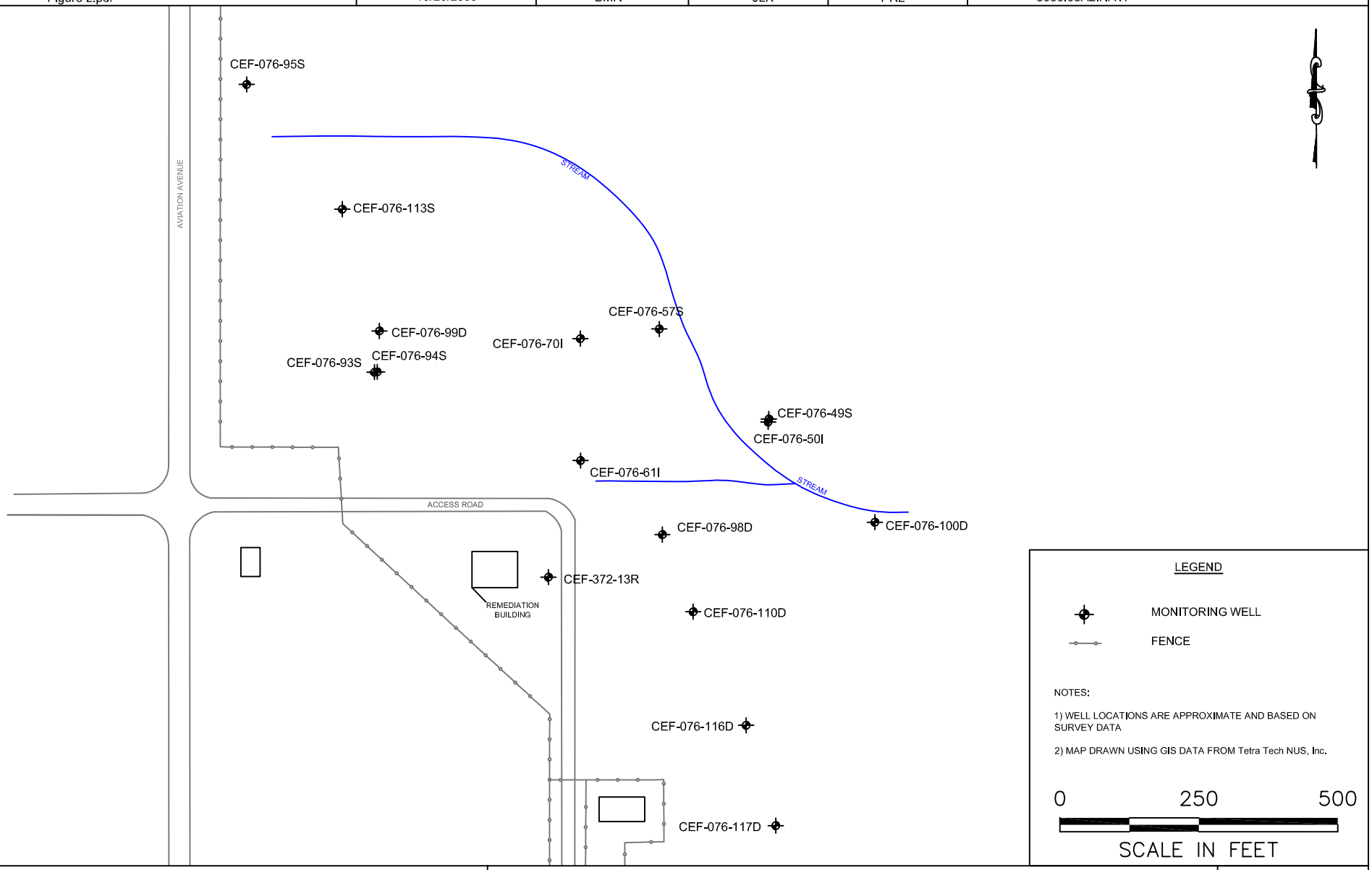
SITE LOCATION MAP
NORTH FUEL FARM
NAS CECIL FIELD
JACKSONVILLE, FL

FIGURE:

1

FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure 2.pdf	10/20/2009	BMR	JLK	PRL	8030.08A2.NAVF



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WELL LOCATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
SEPTEMBER 2009

FIGURE:
2

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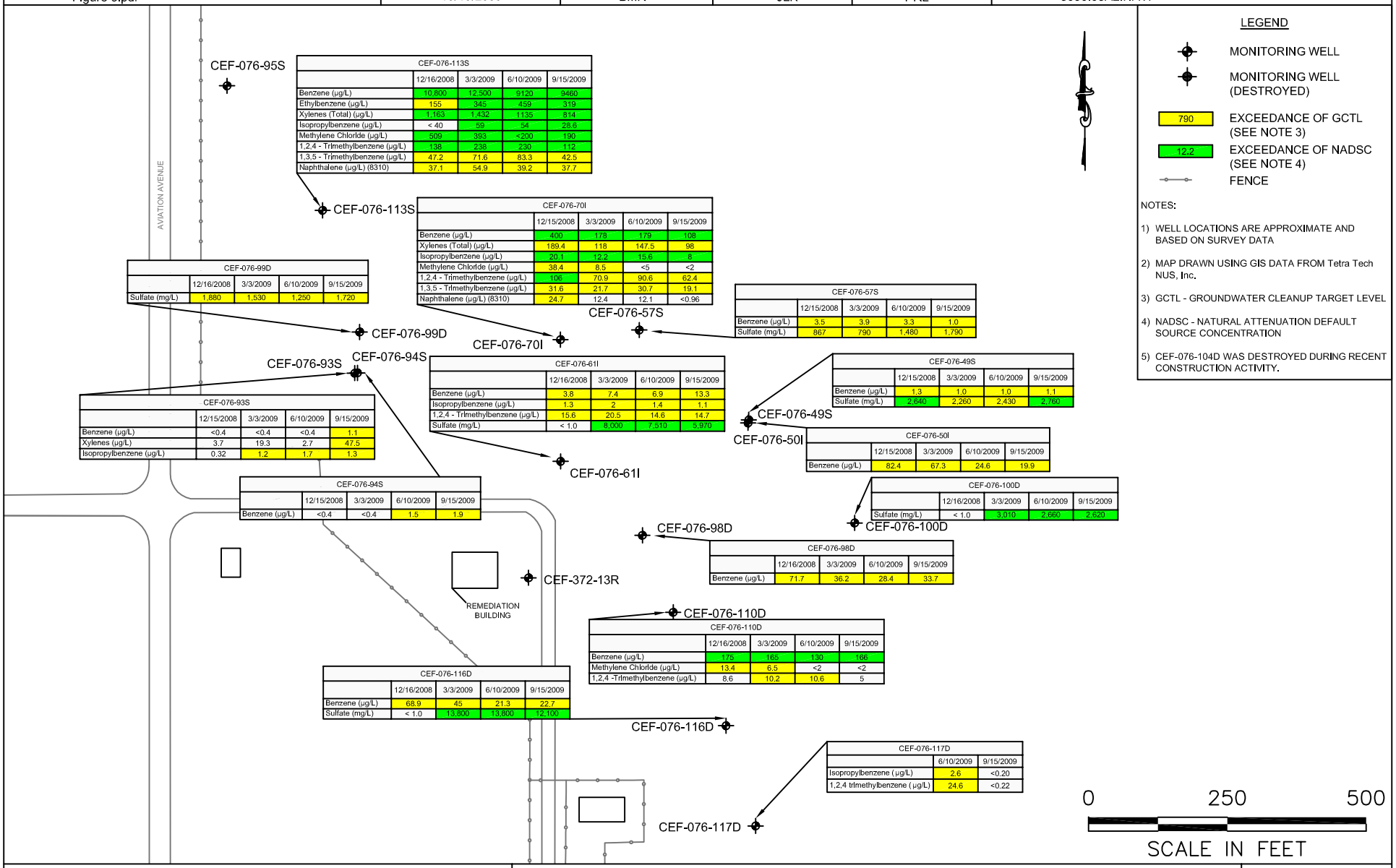
FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure 3.pdf	10/19/2009	BMR	JLK	PRL	8030.08A2.NAVF



CEF-076-113S	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	10,800	12,500	9120	9460
Ethylbenzene (µg/L)	155	345	459	319
Xylenes (Total) (µg/L)	1,163	1,432	1135	814
Isopropylbenzene (µg/L)	< 40	59	54	28.6
Methylene Chloride (µg/L)	509	393	<200	190
1,2,4 - Trimethylbenzene (µg/L)	138	238	230	112
1,3,5 - Trimethylbenzene (µg/L)	47.2	71.6	83.3	42.5
Naphthalene (µg/L) (8310)	37.1	54.9	39.2	37.7

CEF-076-70I	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	400	178	179	108
Xylenes (Total) (µg/L)	189.4	118	147.5	98
Isopropylbenzene (µg/L)	20.1	12.2	15.6	8
Methylene Chloride (µg/L)	38.4	8.5	<5	<2
1,2,4 - Trimethylbenzene (µg/L)	106	70.9	90.6	62.4
1,3,5 - Trimethylbenzene (µg/L)	31.6	21.7	30.7	19.1
Naphthalene (µg/L) (8310)	24.7	12.4	12.1	<0.96

CEF-076-99D	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Sulfate (mg/L)	1,880	1,530	1,250	1,720

CEF-076-57S	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	3.5	3.9	3.3	1.0
Sulfate (mg/L)	867	790	1,480	1,790

CEF-076-93S	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	<0.4	<0.4	<0.4	1.1
Xylenes (µg/L)	3.7	19.3	2.7	47.5
Isopropylbenzene (µg/L)	0.32	1.2	1.7	1.3

CEF-076-61I	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	3.8	7.4	6.9	13.3
Isopropylbenzene (µg/L)	1.3	2	1.4	1.1
1,2,4 - Trimethylbenzene (µg/L)	15.6	20.5	14.6	14.7
Sulfate (mg/L)	< 1.0	8,000	7,510	5,970

CEF-076-49S	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	1.3	1.0	1.0	1.1
Sulfate (mg/L)	2,640	2,260	2,430	2,760

CEF-076-50I	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	82.4	67.3	24.6	19.9

CEF-076-94S	12/15/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	<0.4	<0.4	1.5	1.9

CEF-076-100D	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Sulfate (mg/L)	< 1.0	3,010	2,660	2,620

CEF-076-98D	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	71.7	36.2	28.4	33.7

CEF-076-110D	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	175	165	130	166
Methylene Chloride (µg/L)	13.4	6.5	<2	<2
1,2,4 -Trimethylbenzene (µg/L)	8.6	10.2	10.6	5

CEF-076-116D	12/16/2008	3/3/2009	6/10/2009	9/15/2009
Benzene (µg/L)	68.9	45	21.3	22.7
Sulfate (mg/L)	< 1.0	13,800	13,600	12,100

CEF-076-117D	6/10/2009	9/15/2009
Isopropylbenzene (µg/L)	2.6	<0.20
1,2,4 trimethylbenzene (µg/L)	24.6	<0.22

LEGEND

- MONITORING WELL
- MONITORING WELL (DESTROYED)
- 790 — EXCEEDANCE OF GCTL (SEE NOTE 3)
- 12.2 — EXCEEDANCE OF NADSC (SEE NOTE 4)
- FENCE

NOTES:

1) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA
2) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.
3) GCTL - GROUNDWATER CLEANUP TARGET LEVEL
4) NADSC - NATURAL ATTENUATION DEFAULT SOURCE CONCENTRATION
5) CEF-076-104D WAS DESTROYED DURING RECENT CONSTRUCTION ACTIVITY.

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CONTAMINANT CONCENTRATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
SEPTEMBER 2009

FIGURE: 3

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FIGURE 4
Historical Benzene Concentrations in Select Shallow Wells

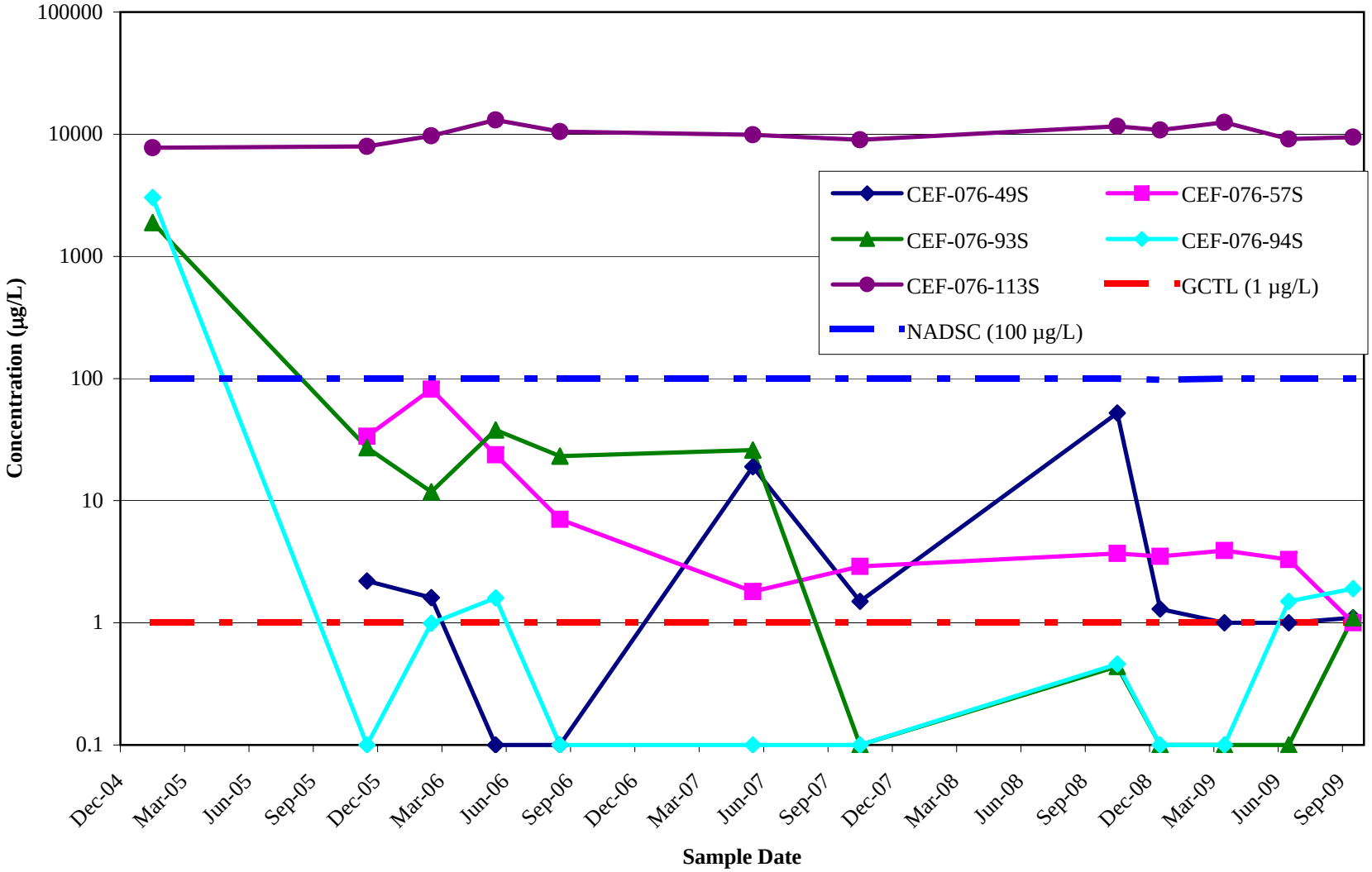


FIGURE 5
Historical Benzene Concentrations in Select Intermediate Wells

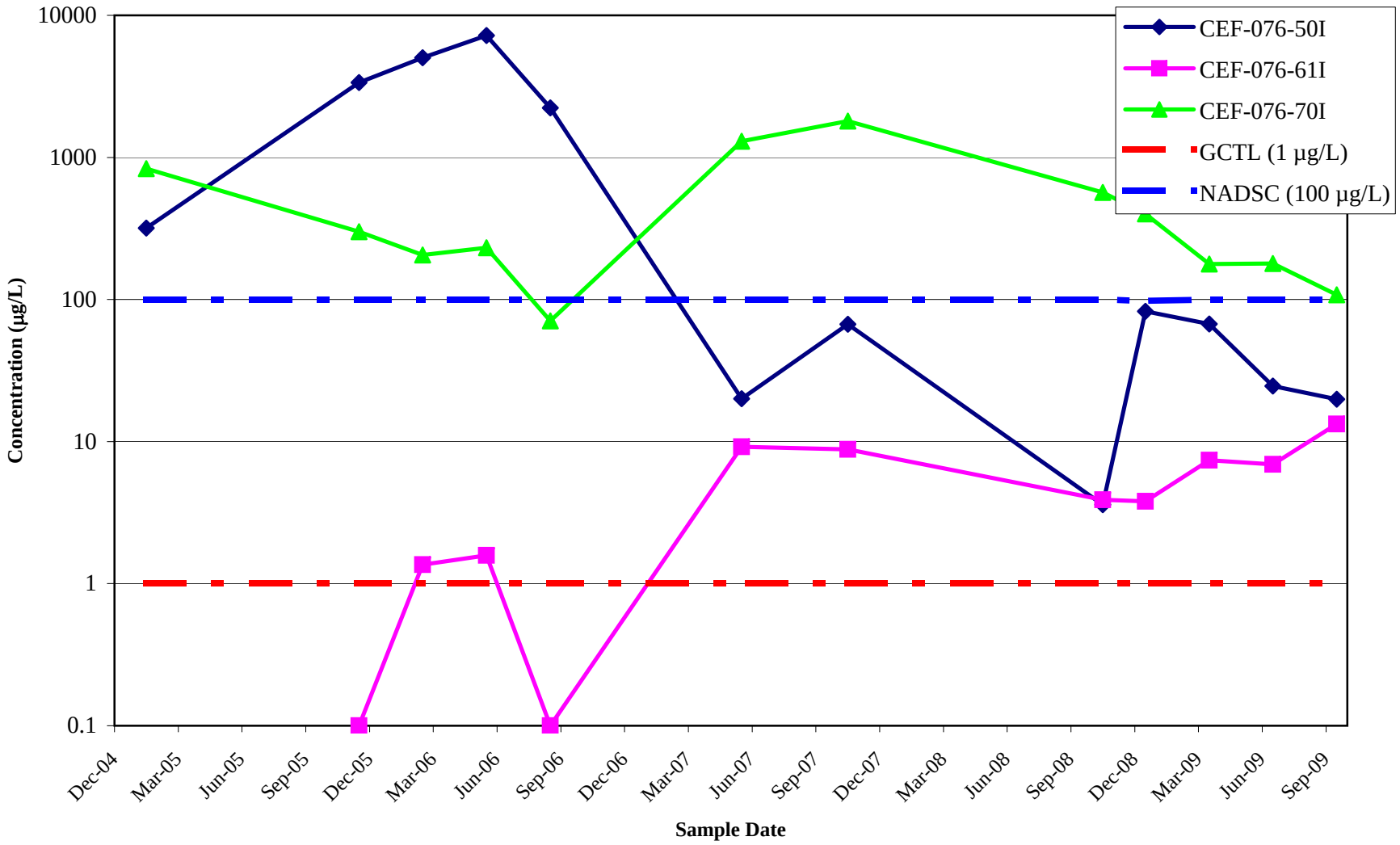


FIGURE 6
Historical Benzene Concentrations in Select Deep Wells

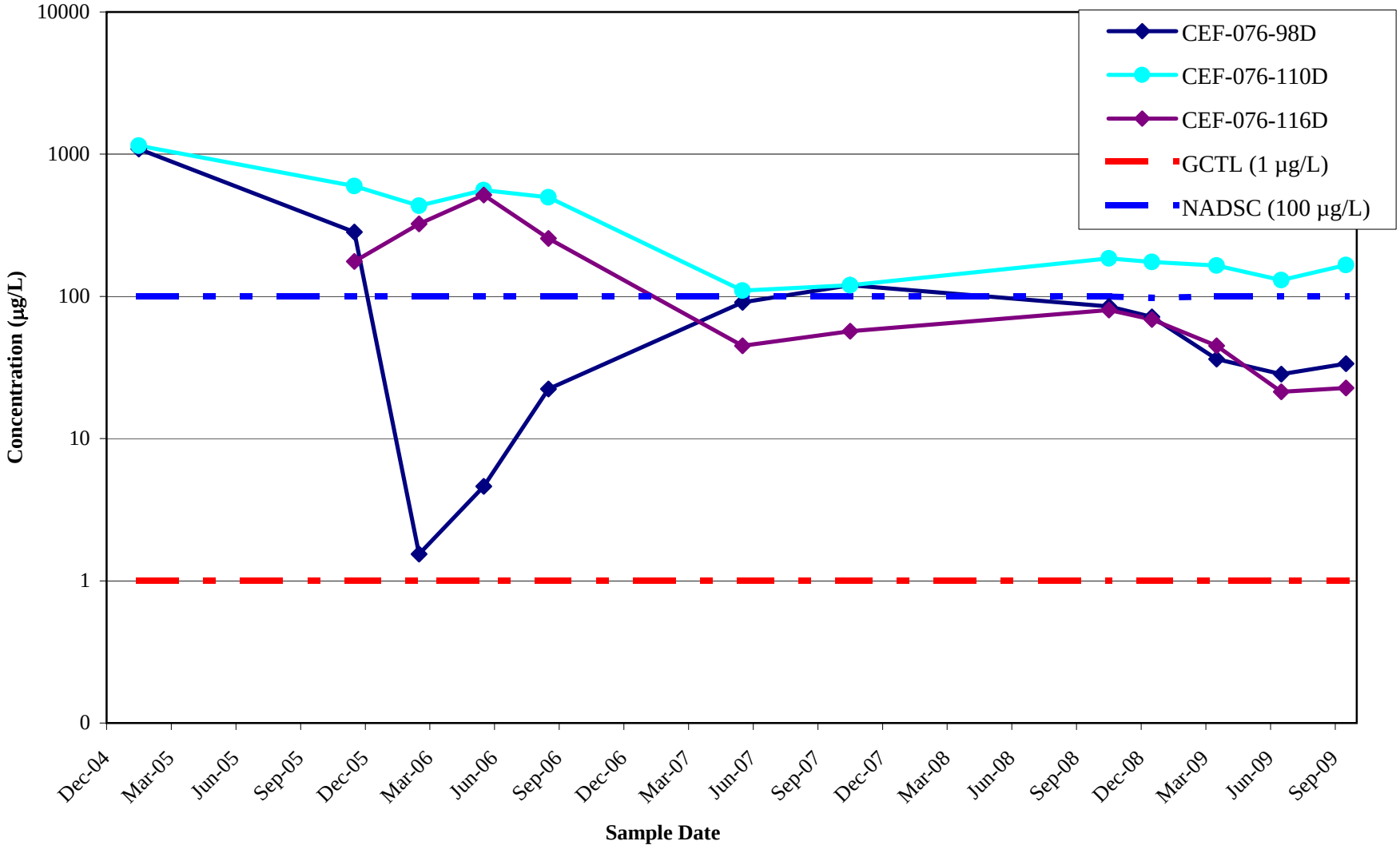


FIGURE 7
Historical Ethylbenzene Concentrations in Select Wells

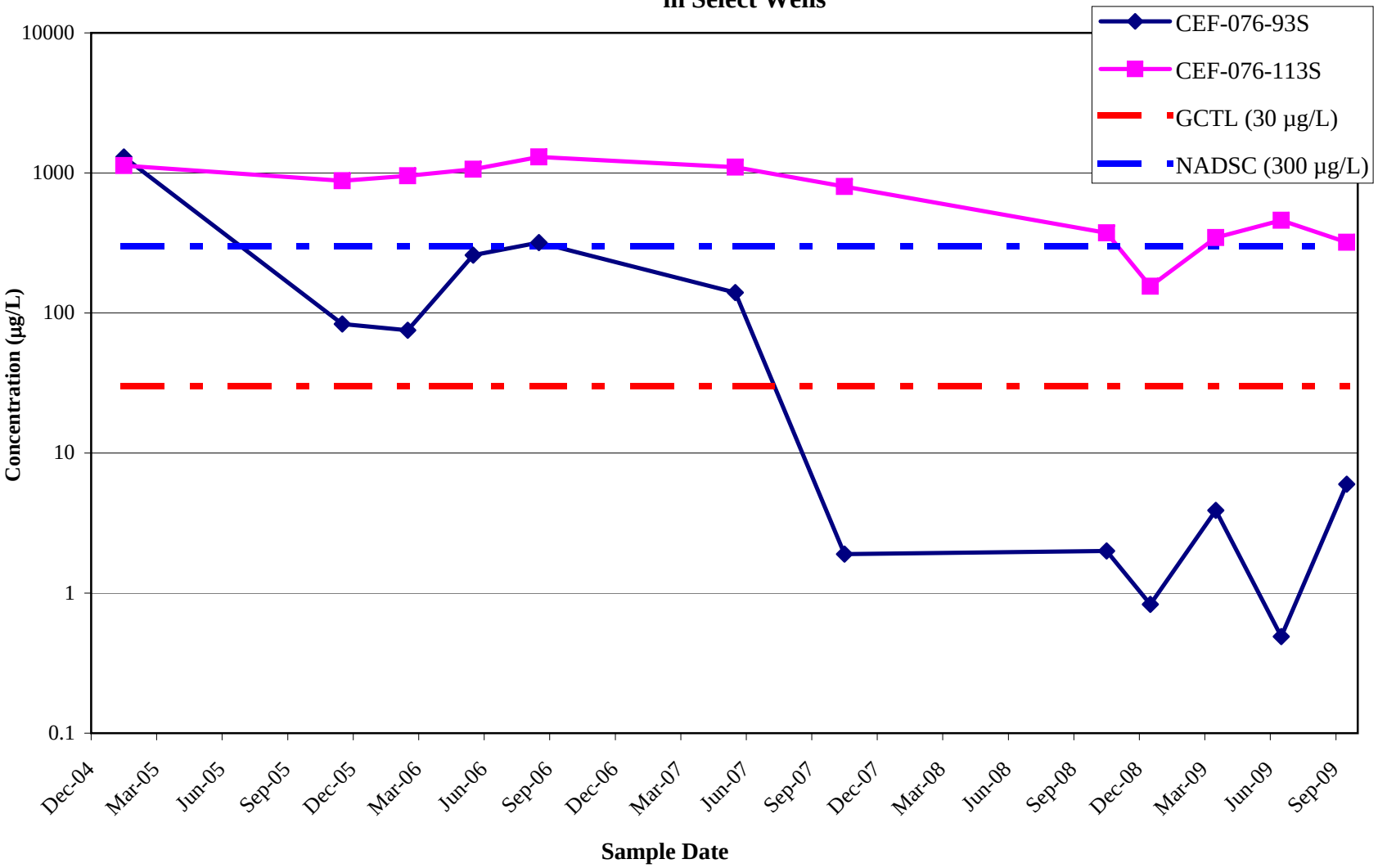


FIGURE 8
Historical Xylenes Concentrations
in Select Wells

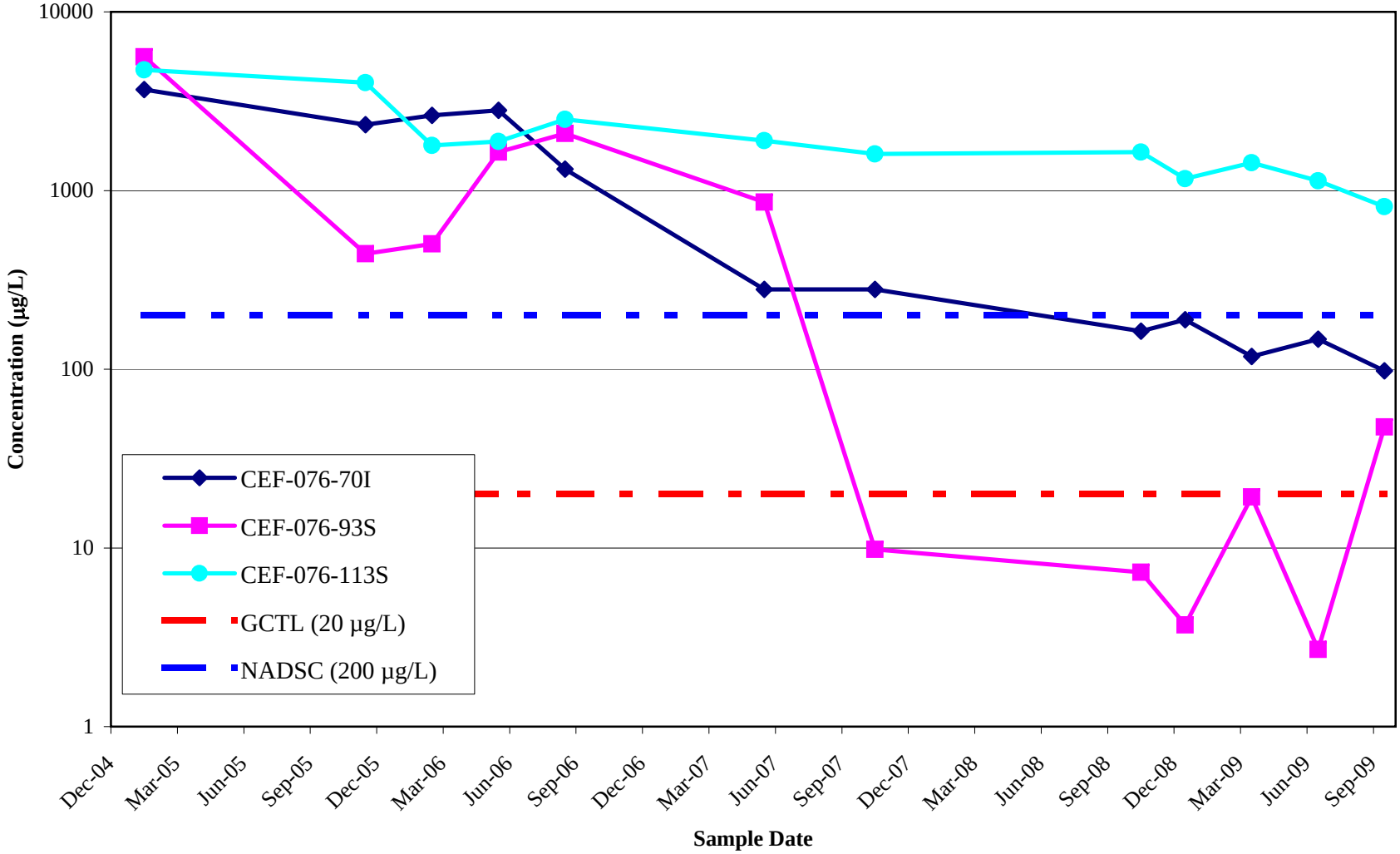
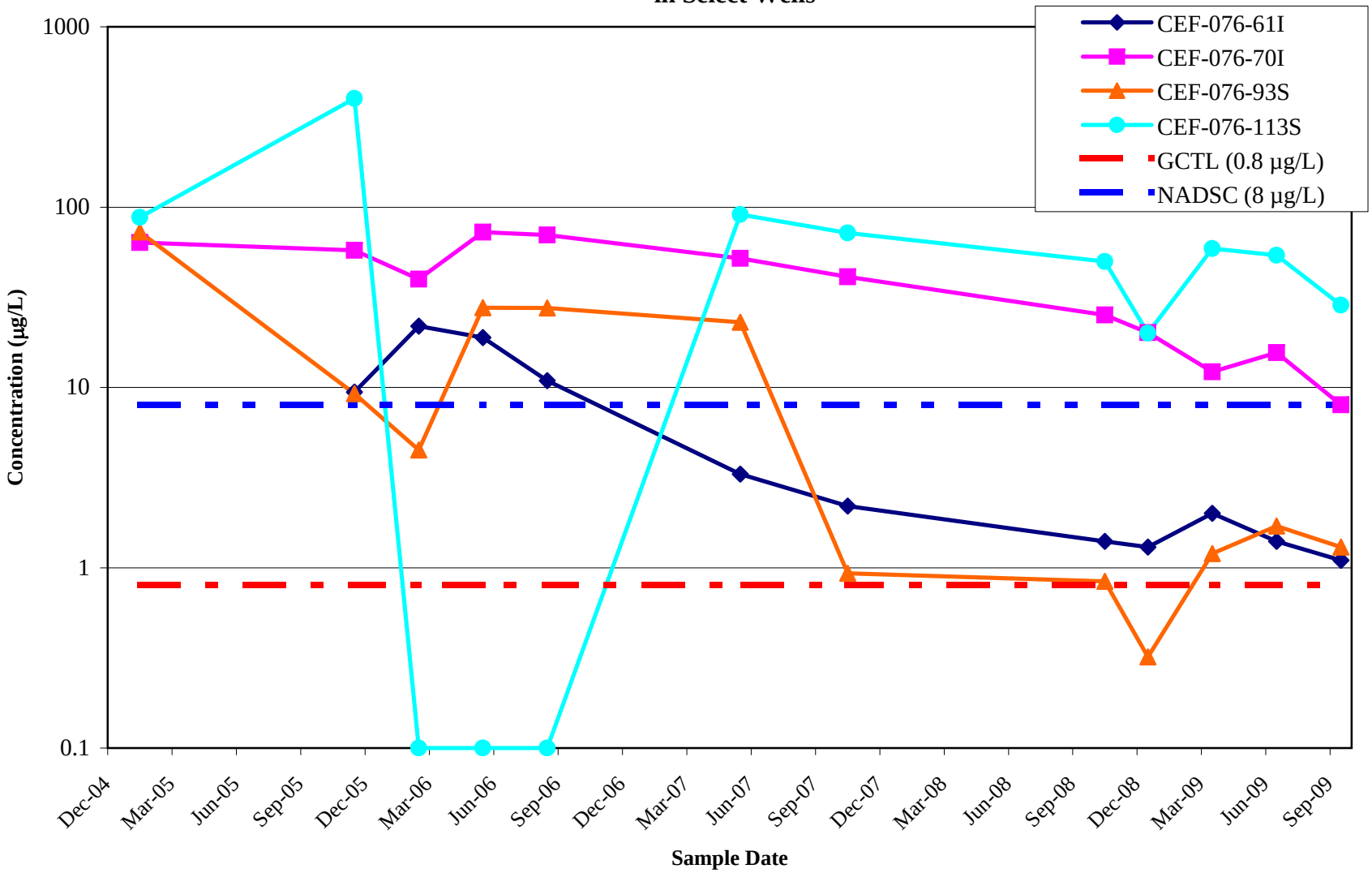
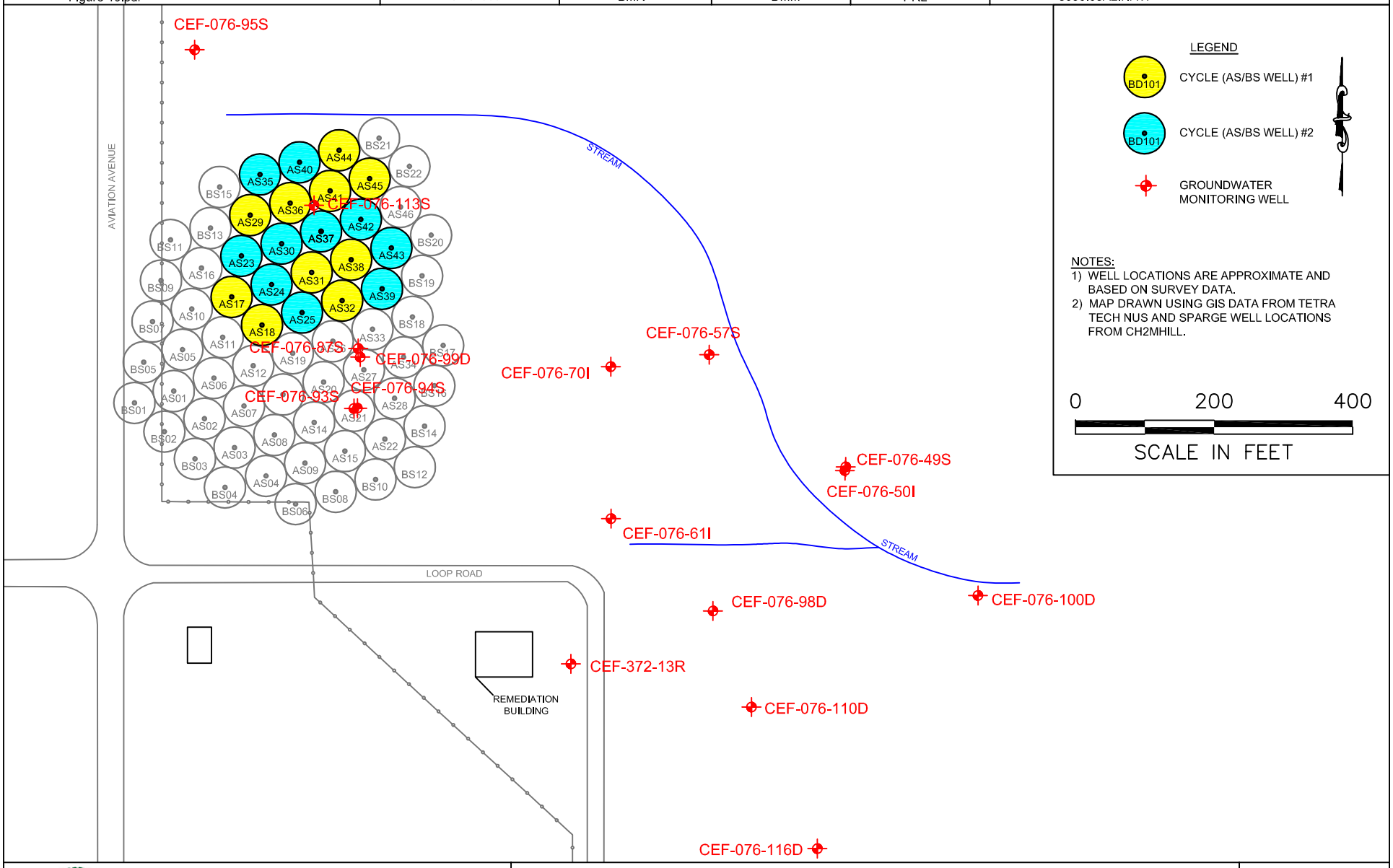


FIGURE 9
Historical Isopropylbenzene Concentrations in Select Wells



FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure 10.pdf	11/12/2009	BMR	DMM	PRL	8030.08A2.NAVF



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SHALLOW AIR SPARGE WELL LOCATIONS
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
DECEMBER 2009

FIGURE:
10

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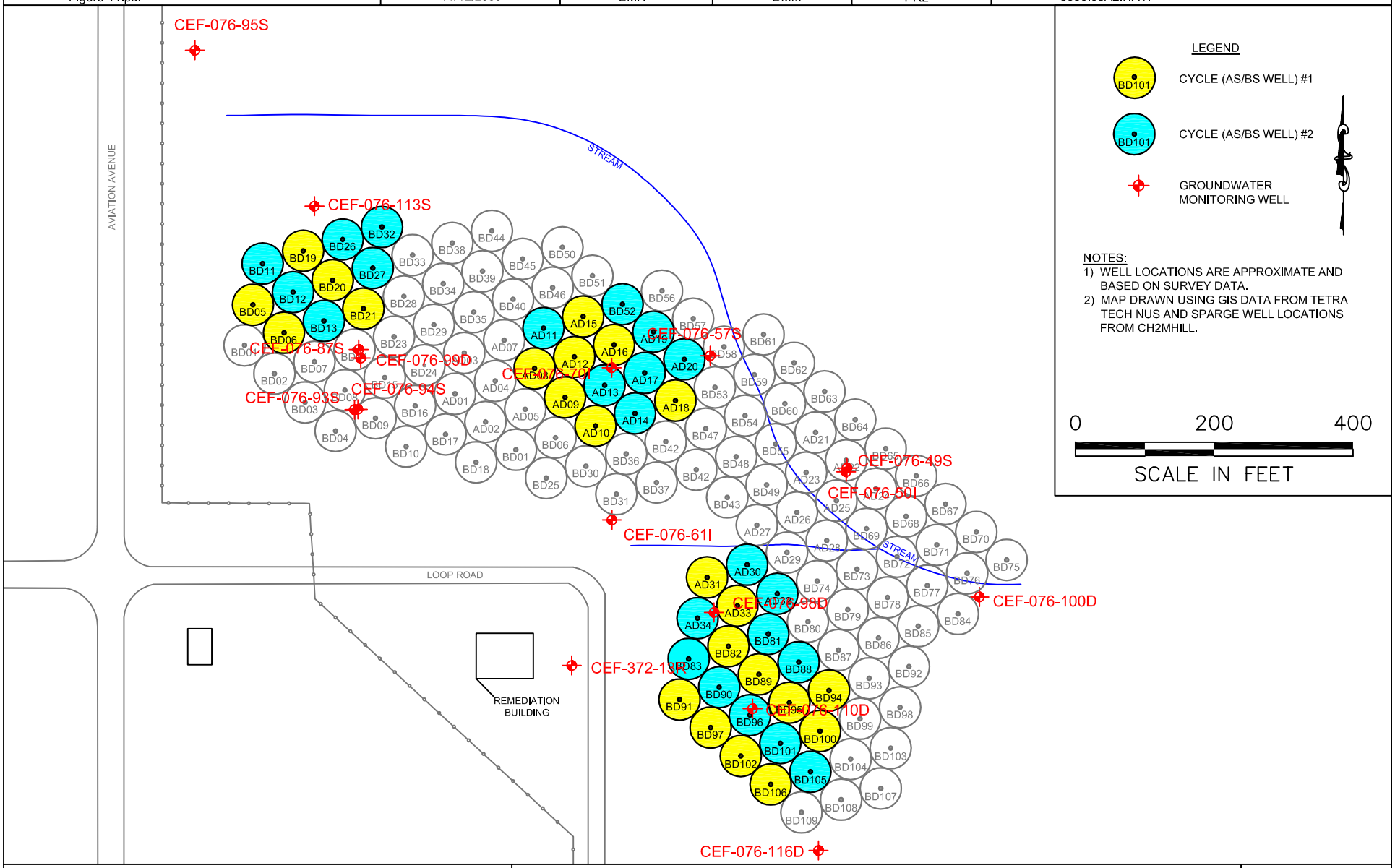
FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure 11.pdf	11/12/2009	BMR	DMM	PRL	8030.08A2.NAVF



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DEEP AIR SPARGE WELL LOCATIONS
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
DECEMBER 2009

FIGURE:
11

T:\Project Files\Cecil Field\Cecil Field 2\CAD\NFFbasemap.dwg, Fig11 Dec 09, 5/13/2010 2:19:34 PM, 1:1

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-372-13R	10/22/2007	1.50 - 11.50	81.25 *	6.28	74.97
	10/8/2008			4.84	76.41
	12/15/2008			6.93	74.32
	3/3/2009			7.90 *	73.35
	6/10/2009			4.50 *	76.75
	9/15/2009			4.50 *	76.75
CEF-076-49S	10/22/2007	45 - 50	78.14	6.52	71.62
	10/8/2008			4.72	73.42
	12/15/2008			6.51	71.63
	3/3/2009			7.66	70.48
	6/10/2009			4.35	73.79
	9/15/2009			3.96	74.18
CEF-076-50I	10/22/2007	75 - 80	78.17	6.38	71.79
	10/8/2008			4.55	73.62
	12/15/2008			6.39	71.78
	3/3/2009			7.61	70.56
	6/10/2009			4.24	73.93
	9/15/2009			3.82	74.35
CEF-076-57S	10/22/2007	30 - 35	77.74	6.13	71.61
	10/8/2008			4.21	73.53
	12/15/2008			5.98	71.76
	3/3/2009			7.31	70.43
	6/10/2009			3.83	73.91
	9/15/2009			3.44	74.30
CEF-076-61I	10/22/2007	65 - 70	81.12	9.72	71.40
	10/8/2008			7.61	73.51
	12/15/2008			9.63	71.49
	3/3/2009			11.35	69.77
	6/10/2009			7.53	73.59
	9/15/2009			7.02	74.10
CEF-076-70I	10/22/2007	65 - 70	78.21	5.85	72.36
	10/8/2008			4.41	73.80
	12/15/2008			6.31	71.90
	3/3/2009			8.44	69.77
	6/10/2009			4.68	73.53
	9/15/2009			4.34	73.87
CEF-076-93S	10/22/2007	25 - 30	81.59	7.55	74.04
	10/8/2008			6.48	75.11
	12/15/2008			8.55	73.04
	3/3/2009			8.00	73.59
	6/10/2009			5.95	75.64
	9/15/2009			5.09	76.50
CEF-076-94S	10/22/2007	5 - 15	81.59	9.83	71.76
	10/8/2008			7.40	74.19
	12/15/2008			9.58	72.01
	3/3/2009			11.59	70.00
	6/10/2009			7.49	74.10
	9/15/2009			6.96	74.63

TABLE 1
GROUNDWATER ELEVATIONS
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-076-95S	10/22/2007	5 - 15	80.88	6.59	74.29
	10/8/2008			6.45	74.43
	12/15/2008			7.75	73.13
	3/3/2009			7.61	73.27
	6/10/2009			5.46	75.42
	9/15/2009			5.38	75.50
CEF-076-98D	10/22/2007	105 - 110	81.39	11.53	69.86
	10/8/2008			8.28	73.11
	12/15/2008			10.18	71.21
	3/3/2009			15.48	65.91
	6/10/2009			11.37	70.02
	9/15/2009			8.61	72.78
CEF-076-99D	10/22/2007	95 - 100	81.69	21.45	60.24
	10/8/2008			8.72	72.97
	12/15/2008			9.85	71.84
	3/3/2009			13.75	67.94
	6/10/2009			9.99	71.70
	9/15/2009			7.48	74.21
CEF-076-100D	10/22/2007	110 - 115	80.15	8.63	71.52
	10/8/2008			7.33	72.82
	12/15/2008			9.19	70.96
	3/3/2009			10.24	69.91
	6/10/2009			4.08	76.07
	9/15/2009			3.79	76.36
CEF-076-110D	10/22/2007	105 - 110	82.51	11.90	70.61
	10/8/2008			10.20	72.31
	12/15/2008			12.19	70.32
	3/3/2009			14.08	68.43
	6/10/2009			10.38	72.13
	9/15/2009			9.68	72.83
CEF-076-113S	10/22/2007	35 - 40	81.22	9.57	71.65
	10/8/2008			7.30	73.92
	12/15/2008			9.21	72.01
	3/3/2009			11.28	69.94
	6/10/2009			8.44	72.78
	9/15/2009			6.87	74.35
CEF-076-116D	10/22/2007	110 - 115	82.83	11.67	71.16
	10/8/2008			10.40	72.43
	12/15/2008			12.37	70.46
	3/3/2009			15.05	67.78
	6/10/2009			11.38	71.45
	9/15/2009			10.72	72.11
CEF-076-117D	6/10/2009	105-110	81.78	9.37	72.41
	9/15/2009			8.85	72.93

Notes:
Data collected prior to 2007 are provided in previous reports
ft bgs - feet below ground surface
ft amsl - feet above mean sea level
* -Top of casing (TOC) was cut therefore it is lower in March 2009
NM - not measured

TABLE 2
FIELD AND NATURAL ATTENUATION PARAMETERS
North Fuel Farm
NAS Cecil field
Jacksonville, Florida

Well ID	Sample Date	FIELD PARAMETERS						LABORATORY NATURAL ATTENUATION PARAMETERS			
		pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation - Reduction Potential (mV)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (mg/L)	Inorganic Carbon (mg/L)
GCTL (mg/L)		NE	NE	NE	NE	NE	NE	250	NE	NE	NE
NADSC (mg/L)		NE	NE	NE	NE	NE	NE	2500	NE	NE	NE
CEF-372-13R	3/3/2009	6.97	310	17.5	2.07 *	17.43	99.4	NA	NA	NA	NA
	6/10/2009	6.99	324	29.9	1.38	25.21	93.8	NA	NA	NA	NA
	9/15/2009	7.03	330	19.4	4.20 *	26.95	108	NA	NA	NA	NA
CEF-076-49S	3/3/2009	2.42	2336	7.75	0.7	22.02	451.2	**2260**	<0.6	**27.7**	**3.7**
	6/10/2009	3.07	2595	2.56	1.29	26.14	427.1	**2430**	<0.60	**16.1**	**12.9**
	9/15/2009	2.87	2520	2.82	0.8	25.71	412.1	**2760**	**0.64 I**	**17.5**	**15.3**
CEF-076-50I	3/3/2009	2.68	3453	2.19	0.60 *	22.51	287.8	NA	NA	NA	NA
	6/10/2009	3.41	3972	2.51	1.12	26.40	286.0	NA	NA	NA	NA
	9/15/2009	3.02	3995	2.94	0.57 *	26.53	364.8	NA	NA	NA	NA
CEF-076-57S	3/3/2009	2.72	1403	3.8	0.4	18.85	426.6	**790**	**6.2**	**13.1**	**2.2**
	6/10/2009	3.04	23.09	8.97	1.12	25.06	415.0	**1480**	<0.60	**11.8**	**2.7**
	9/15/2009	2.68	2812	1.60	0.50	25.67	417.2	**1790**	**0.66 I**	**12.2**	**6.9**
CEF-076-61I	3/3/2009	2.33	7308	45	0.8	17.84	276.1	**8000**	**1.8**	**54.9**	**1.0 I**
	6/10/2009	2.61	7281	249.0	0.69	24.41	37	**7510**	<0.60	**43.4**	**18.8**
	9/15/2009	2.77	5571	38.6	0.8	25.33	300.8	**5970**	<0.60	**36.5**	**22.2**
CEF-076-70I	3/3/2009	2.91	5855	31	0.34 *	21.94	309.3	NA	NA	NA	NA
	6/10/2009	3.35	5898	4.54	1.43	26.70	219.2	NA	NA	NA	NA
	9/15/2009	2.79	7607	10.40	0.21*	28.00	256.4	NA	NA	NA	NA
CEF-076-93S	3/3/2009	5.98	369	29	0.37 *	18.87	-42.6	NA	NA	NA	NA
	6/10/2009	4.22	287	54.4	1.30	25.67	-38.1	NA	NA	NA	NA
	9/15/2009	5.88	259	90	0.21*	28.04	-19.5	NA	NA	NA	NA
CEF-076-94S	3/3/2009	4.84	299	7.4	1.05 *	22.90	238.1	NA	NA	NA	NA
	6/10/2009	4.67	297	21.2	0.58	26.28	19.1	NA	NA	NA	NA
	9/15/2009	5.77	367	20.0	0.30 *	28.67	58.8	NA	NA	NA	NA
CEF-076-95S	3/3/2009	4.92	85	43	1.0	15.93	280.9	**15.3**	**39.0**	**28.7**	**6.8**
	6/10/2009	5.66	133	45.1	2.15	25.09	-23.6	**9.0**	<0.60	**6.3**	**20.2**
	9/15/2009	5.97	141	28.4	0.8	26.02	12.1	**9.9**	**1.8**	**9.6**	**18.9**
CEF-076-98D	3/3/2009	3.36	6470	316	1.10 *	18.97	211.8	NA	NA	NA	NA
	6/10/2009	3.75	7822	4.38	0.28	27.64	92.5	NA	NA	NA	NA
	9/15/2009	3.39	8132	3.66	0.01*	27.24	148.6	NA	NA	NA	NA
CEF-076-99D	3/3/2009	6.37	3794	3	0.3	25.01	14.5	**1530**	<0.6	**81.7**	**30.3**
	6/10/2009	6.22	2660	1.37	0.31	29.80	-42.2	**1250**	<0.60	**14.8**	**56.8**
	9/15/2009	6.42	2945	3.98	0.25	30.12	-84.9	**1720**	**0.79 I**	**16.7**	**95.3**

TABLE 2
FIELD AND NATURAL ATTENUATION PARAMETERS
North Fuel Farm
NAS Cecil field
Jacksonville, Florida

Well ID	Sample Date	FIELD PARAMETERS						LABORATORY NATURAL ATTENUATION PARAMETERS			
		pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation - Reduction Potential (mV)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (mg/L)	Inorganic Carbon (mg/L)
CEF-076-100D	3/3/2009	5.78	5107	8.93	0.05	18.49	3.9	**3010**	**12.2**	**53.5**	**21.6**
	6/10/2009	6.05	3281	30.20	0.56	24.86	-42.0	**2660**	<0.60	**9.0**	**38.2**
	9/15/2009	5.85	2809	18	0	25.53	-30.2	**2620**	**14.2**	**9.5**	**42.5**
CEF-076-110D	3/3/2009	2.80	8189	7.82	0.71 *	20.08	304.1	NA	NA	NA	NA
	6/10/2009	3.06	6179	7.99	0.59	24.30	290.5	NA	NA	NA	NA
	9/15/2009	2.73	6243	9.08	8.15 *	25.42	375.7	NA	NA	NA	NA
CEF-076-113S	3/3/2009	3.29	3375	13	0.39 *	21.50	109.3	NA	NA	NA	NA
	6/10/2009	3.26	3072	6.37	0.61	26.00	127.1	NA	NA	NA	NA
	9/15/2009	3.11	2716	8.14	0.79 *	26.80	25.6	NA	NA	NA	NA
CEF-076-116D	3/3/2009	2.85	12787	4.87	0.2	20.15	136.1	**13800**	<0.60	**55.8**	**1.4 I**
	6/10/2009	3.09	10490	16	5.28	25.42	207.1	**13800**	<0.60	**45.6**	**14.5**
	9/15/2009	3.24	9286	1	1	26.13	162.6	**12100**	**1.6**	**49.9**	**9.0**
CEF-076-117D	6/10/2009	7.21	28	12	5.01	26.11	-312.1	NA	NA	NA	NA
	9/15/2009	4.79	107	6	1	26.04	210.9	**1.7 I**	**1**	**1.7**	**6.3**

NOTES:

Data collected prior to 2009 are provided in previous reports
GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentration
SU - Standard Units
mS/cm - Microsiemens per centimeter
NTU - Nephelometric turbidity units
mg/L - Milligrams per liter
^{o}C - Degrees Celsius

NE - Not established
NA - Not analyzed
ND - Concentration not detected above the method detection limit, limit not available
J - Concentration estimated below the reporting limit
* - DO readings from field meter, not Chemetrics Kits
mV - Millivolts
Exceeds the GCTL
Exceeds the GCTL and NADSC

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-372-13R	1/24/2005	ND	**18.3**	ND	**7.18**	ND	ND	ND	**8.22**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8480 JB**
	11/18/2005	ND	ND	ND	ND	ND	ND	ND	**1.92 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**436 JB**
	2/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.86 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**491 JB**
	5/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**901**
	8/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**190 JB**
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**380**
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**335**
	5/24/2007	<0.40	<0.43	<0.35	<0.78	ND	ND	ND	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	ND	ND	ND
	5/30/2007	<0.40	<0.43	<0.35	<0.78	ND	ND	ND	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	ND	ND	ND
	6/10/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-49S	11/17/2005	**2.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/2006	**1.61**	ND	ND	**8.23**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	ND	ND	ND	**8.17**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**19**	**0.19 J**	ND	**2.9**	ND	ND	ND	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**170 J**
	10/26/2007	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.03 J**	**0.11 J**	ND	ND	ND
	10/9/2008	**52.3**	**0.67 I**	<0.35	**12.5**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**1.6 I**	**0.45 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**215**
	12/15/2008	**1.3**	<0.43	<0.35	**1.94 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.22 I**	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**196 I**
	3/3/2009	**1.0**	<0.43	<0.35	**1.65 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<0.61	**0.3**	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**279**
	5/30/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/10/2009	**1.0**	<0.43	<0.35	**1.96**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.30 I**	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**199**
	9/15/2009	**1.1**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-50I	1/25/2005	**318**	ND	ND	**1910**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3310 JB**
	11/21/2005	**3360 J**	ND	ND	**2400**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3080 JB**
	2/14/2006	**5020**	**71.2 J**	ND	**586**	ND	ND	ND	ND	ND	**277 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**1840 JB**
	5/15/2006	**7200**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1050**
	8/15/2006	**2230 J**	**15.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**183 JB**
	5/29/2007	**20**	**0.28 J**	ND	4.8	ND	ND	ND	**0.31 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**190 J**
	10/26/2007	**67**	**0.57 J**	**0.16 J**	**6.6 J**	ND	**0.3 J**	ND	**0.15 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	**3.6**	<0.43	<0.35	**2.7 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.32 I**	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**237**
	12/15/2008	**82.4**	**0.80 I**	<0.35	**18.2**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**1.6 I**	**0.43 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**259**
	3/3/2009	**67.3**	**0.77 I**	<0.35	**15.1**	<0.20	<0.34	<0.32	**0.21 I**	<0.32	<0.61	**1.4 I**	**0.33 I**	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**260**
	6/10/2009	**24.6**	**0.53 I**	<0.35	**12.2**	<0.20	**0.38 I**	<0.32	**0.28 I**	<0.32	<1.0	**2.2**	**0.69 I**	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**245**
	9/15/2009	**19.9**	<0.43	<0.35	**6.7 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.86 I**	**0.26 I**	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**249**
CEF-076-57S	11/17/2005	**33.6**	**11.7**	ND	ND	ND	ND	ND	**3.46 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	**81.8**	**6.2**	ND	ND	ND	ND	ND	**2.81 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	**23.7**	**2.01 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**7.02**	**1.72 J**	ND	**3.21 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2007	**1.8**	**0.31 J**	ND	**1.5**	ND	ND	ND	**0.28 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**240 J**
	10/26/2007	**2.9**	**0.36 J**	ND	**2.2 J**	ND	ND	ND	**0.27 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	**3.7**	**0.51 I**	<0.35	**2.19 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	**0.27 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**255**
	12/15/2008	**3.5**	**0.69 I**	<0.35	**1.5**	<0.20	<0.34	<0.32	**0.27 I**	<0.32	<1.0	**0.40 I**	**0.28 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**206**
	3/3/2009	**3.9**	**1.6**	<0.35	**4**	<0.20	<0.34	<0.32	**0.37 I**	<0.32	<1.0	**1.0 I**	**0.45 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<170
	6/10/2009	**3.3**	**1.6**	<0.35	**5.8**	<0.20	<0.34	<0.32	**0.48 I**	<0.32	<1.0	**1.4 I**	**0.69 I**	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	**1.0**	<0.43	<0.35	**2.02 I**	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.38 I**	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**198 I**

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
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Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-61I	11/17/2005	ND	36.9 J	ND	73.8	ND	ND	ND	9.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	1.36	22.8	ND	24.2	ND	ND	ND	21.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	1.58	10.9	ND	18	ND	ND	ND	18.9	ND	ND	ND	ND	ND	ND	24.2 J	ND	ND	ND	ND
	8/16/2006	ND	3.06 J	ND	5.2	ND	ND	ND	10.9 J	ND	3.02 JB	ND	ND	ND	ND	11 J	ND	ND	ND	ND
	5/22/2007	9.2	1.2	ND	4.8	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	1.4	2.2	ND	ND	1100
	10/26/2007	8.8	1.2	ND	4.8 J	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	1.8 J	2.6 J	0.29 J	0.022 J	760
	10/10/2008	3.9	1.7	<0.35	6.4	<0.20	<0.34	<0.32	1.4	<0.32	<1.0	21.4	7	8.4	<0.49	1.3 I	1.8 I	<0.97	<0.49	445
	12/16/2008	3.8	1.5	<0.35	6.2	<0.20	<0.34	<0.32	1.3	<0.32	<1.0	15.6	5.3	6.3	<0.48	0.93 I	1.3 I	<0.96	<0.48	459
	3/3/2009	7.4	1.8	<0.35	7	<0.20	<0.34	<0.32	2	<0.32	<1.0	20.5	6.8	7.9	<0.48	1.1 I	1.9	<0.96	<0.48	529
	6/10/2009	6.9	1.3	<0.35	6.1	<0.20	<0.34	<0.32	1.4	<0.32	<1.0	14.6	5.4	4.2	<0.48	0.71 I	1.0 I	<0.96	<0.48	342
	9/15/2009	13.3	1.3	<0.35	5.8	<0.20	<0.34	<0.32	1.1	<0.32	<1.0	14.7	4.5	3	<0.48	<0.48	0.72 I	<0.96	<0.48	372
CEF-076-70I	1/25/2005	834	50.3	11.1 J	3680	ND	ND	ND	63.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9210 JB
	11/21/2005	300	ND	ND	2340	ND	ND	ND	57.5 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	496 B
	2/14/2006	206	ND	ND	2630	ND	ND	ND	39.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3780 JB
	5/11/2006	231	ND	ND	2810	ND	ND	ND	72.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5170
	8/15/2006	70.8	ND	ND	1320	ND	ND	ND	70.1	ND	10.4 JB	ND	ND	ND	ND	ND	ND	ND	ND	1640 JB
	5/23/2007	1300	6.6 J	ND	280	ND	ND	ND	52	ND	ND	ND	ND	ND	ND	0.12 J	ND	ND	ND	1700 J
	10/25/2007	1800	7.1 J	ND	280 J	ND	ND	ND	41	ND	14 J	ND	ND	ND	ND	0.2	0.16	ND	ND	1600
	10/9/2008	566	9.8	<1.8	163.4	<1	<1.7	<1.6	25.2	<1.6	31.8 V	113	39	17.1	<0.48	<0.48	<0.48	<0.96	<0.48	659
	12/15/2008	400	10.1	<3.5	189.4	<2	<2.4	<3.2	20.1	<3.2	38.4 I	106	31.6	24.7	<0.49	<0.49	<0.49	<0.98	<0.49	655
	3/3/2009	178	7.4	<1.8	118	<1	<1.7	<1.6	12.2	<1.6	8.5 V	70.9	21.7	12.4	<0.49	<0.48	<0.48	<0.96	<0.48	592
	6/10/2009	179	9.7	<1.8	147.5	<1.0	<1.7	<1.6	15.6	<1.6	<5.0	90.6	30.7	12.1	<0.48	<0.48	<1.9	<0.96	<0.48	458
	9/15/2009	108	5.3	<0.7	98	<0.40	<0.68	<0.64	8	<0.64	<2.0	62.4	19.1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	481

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
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Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-93S	1/24/2005	**1890**	**1300**	**7800**	**5610**	ND	ND	ND	**72.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12100 JB**
	11/18/2005	**27.2**	**83.5**	**235**	**443**	ND	ND	ND	**9.22 J**	ND	**7.85 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**1620 JB**
	2/13/2006	**11.8**	**75.4**	**193**	**502**	ND	ND	ND	**4.5 J**	ND	ND	ND	ND	ND	ND	**8.96 J**	**6.46 J**	ND	ND	**112 JB**
	5/10/2006	**37.9**	**259**	**607**	**1640**	ND	ND	ND	**27.7 J**	ND	ND	ND	ND	ND	ND	**18**	ND	ND	ND	**7790 J**
	8/14/2006	**23.1**	**318**	**515**	**2090**	ND	ND	ND	**27.6**	ND	**14 JB**	ND	ND	ND	ND	**31.9**	ND	ND	ND	**4520 JB**
	5/15/2007	**26**	**140**	**320 JB**	**860**	ND	ND	ND	**23**	ND	**2.3 JB**	ND	ND	ND	ND	**6.1**	**6.8**	ND	ND	**5300**
	10/24/2007	ND	**1.9**	**1.4 JB**	**9.8 J**	ND	ND	ND	**0.93**	ND	ND	ND	ND	ND	**0.023 J**	**0.17**	**0.23**	**0.05**	**0.04 J**	**160 J**
	10/10/2008	**0.44 I**	**2.0**	**1.7**	**7.3**	<0.21	<0.34	<0.32	**0.84 I**	<0.32	<1.0	**1.8 I**	**0.71 I**	<0.96	<0.48	**0.49 I**	**1.1 I**	<0.96	<0.48	**243**
	12/15/2008	<0.40	**0.83 I**	**0.80 I**	**3.7**	<0.21	<0.34	<0.32	**0.32 I**	<0.32	<1.0	**0.37 I**	**0.23 I**	**1.1 I**	<0.48	**0.65**	**1.6 I**	<0.96	<0.48	**244**
	3/3/2009	<0.40	**3.90**	**1.50**	**19.3**	<0.21	<0.34	<0.32	**1.2**	<0.32	<1.0	**1.8 I**	**0.52 I**	**1.1 I**	<0.48	<0.48	**0.75 I**	<0.96	<0.48	**173**
	6/10/2009	<0.40	**0.49 I**	<0.35	**2.7**	<0.21	<0.34	<0.32	**1.7**	**0.37 I**	<1.0	**1.1 I**	**0.80 I**	<0.96	<0.48	<0.48	**0.60 I**	<0.96	<0.48	<160
	9/15/2009	**1.1**	**6.0**	**3.8**	**47.5**	<0.20	<0.34	<0.32	**1.3**	<0.32	<1.0	**4.7**	**2.5**	**1.5 I**	<0.48	**0.71 I**	**1.4 I**	<0.96	<0.48	**299**
CEF-076-94S	1/25/2005	**3040**	**1310**	**3800**	**4850**	ND	ND	ND	**86.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**15500 JB**
	11/18/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**404 JB**
	2/13/2006	**0.993 J**	ND	ND	ND	ND	ND	ND	ND	ND	**2.98 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**200 JB**
	5/10/2006	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**304**
	8/14/2006	ND	ND	ND	ND	**1.24 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**97 JB**
	5/15/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.5 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	**0.46 I**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**211 I**
	12/15/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**215 I**
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**238**
	6/10/2009	**1.5**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**182**
	9/15/2009	**1.9**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**291**

TABLE 3
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Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-95S	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.54 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/25/2007	ND	ND	**0.61 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**180 J**
	10/9/2008	<0.40	<0.43	**33.8**	<0.78	<0.20	<0.34	<0.22	<0.20	**31.3**	<0.61	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**627**
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.22	<0.20	**31.3**	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<170
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.22	<0.20	**31.3**	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	6/10/2009	<0.40	<0.43	**4.4**	<0.78	<0.20	<0.34	<0.22	<0.20	**7.3**	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	<0.40	<0.43	**0.37 I**	<0.78	<0.20	<0.34	<0.32	<0.20	**1.4**	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-98D	1/25/2005	**1090 J**	**8.33 J**	ND	**62.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**811 B**
	11/21/2005	**283**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9340 B**
	2/14/2006	**1.54**	ND	ND	ND	ND	ND	ND	ND	ND	**2.41 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**82.8 JB**
	5/11/2006	**4.62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**312 J**
	8/15/2006	**22.3**	ND	ND	**6.82**	ND	ND	ND	ND	ND	**1.05 JB**	ND	ND	ND	ND	ND	ND	ND	ND	**137 JB**
	5/25/2007	**91**	**0.27 J**	ND	**7.2**	ND	ND	ND	**0.32 J**	ND	ND	ND	ND	ND	ND	**0.02 J**	**0.037 J**	ND	ND	**330 J**
	10/24/2007	**120**	**0.38 J**	**0.22 JB**	**8.8 J**	ND	ND	ND	**0.24 J**	ND	ND	ND	ND	ND	ND	ND	**0.046 J**	ND	ND	**160 J**
	10/9/2008	**85**	**0.67 I**	<0.35	**5.8 I**	<0.20	<0.34	<0.32	**0.25 I**	<0.32	<1.0	**2.4**	**0.75 I**	**1.7 I**	<0.48	<0.48	<0.48	<0.96	<0.48	**231 I**
	12/16/2008	**71.7**	**0.94 I**	<0.35	**8.7**	<0.20	<0.34	<0.32	**0.28 I**	<0.32	<1.0	**2.7**	**0.78 I**	**2.3**	<0.48	<0.48	<0.48	<0.96	<0.48	**239 I**
	3/3/2009	**36.2**	**0.58 I**	<0.35	**4.2**	<0.20	<0.34	<0.32	<0.2	<0.32	<1.0	**1.6 I**	**0.49 I**	**1.2 I**	<0.48	<0.48	<0.48	<0.96	<0.48	**364**
	6/10/2009	**28.4**	**0.49 I**	<0.35	**4.7**	<0.20	<0.34	<0.32	<0.2	<0.32	<1.0	**1.7 I**	**0.57 I**	**0.97 I**	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	**33.7**	<0.43	<0.35	**3.54 I**	<0.20	<0.34	<0.32	<0.2	<0.32	<1.0	**0.66 I**	**0.22 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**265**

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-99D	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.62 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**190 I**
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**182 I**
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	<160
	6/10/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**245**
	9/15/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**186 I**
CEF-076-100D	11/17/2005	**23.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/2006	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	**1.27**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**1.07**	ND	ND	ND	ND	ND	**2.06 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**0.12 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.019 JB**	ND	ND	ND
	10/25/2007	**0.31 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.20	<0.32	<0.61	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	5/30/2007	ND	<0.43	<0.35	<0.78	ND	ND	ND	<0.20	<0.32	<1.0	<0.22	<0.20	<0.95	<0.48	<0.48	<0.48	ND	ND	<160
	6/10/2009	**0.47 I**	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**249**

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-110D	1/25/2005	1150	ND	ND	88.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	499 JB
	11/21/2005	597	ND	ND	38.2 J	ND	ND	ND	19.2 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2700 B
	2/14/2006	434	ND	ND	42.3 J	ND	ND	ND	ND	ND	28.6 JB	ND	ND	ND	ND	ND	ND	ND	ND	309 JB
	5/11/2006	559	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370
	8/14/2006	497	ND	ND	17.1 J	ND	ND	ND	ND	ND	9.25 JB	ND	ND	ND	ND	ND	ND	ND	ND	430 JB
	5/30/2007	110	0.99 J	ND	21 JB	ND	ND	ND	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350 J
	10/23/2007	120	0.55 J	ND	13 J	ND	ND	ND	0.35 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190 J
	10/9/2008	185	1.9 I	<0.70	13.4 I	<0.40	<0.68	<0.64	1.0 I	NA	18.8 V	11.3	3.2 I	5.6	<0.48	<0.48	<0.48	<0.95	<0.48	347
	12/16/2008	175	<2.2	<1.8	10.4	<0.40	<0.68	<0.64	<1.0	NA	13.4 I,V	8.6 I	2.5 I	4.5	<0.50	<0.50	<0.50	<0.95	<0.48	287
	3/3/2009	165	2.0	<1.8	15.8	<0.40	<0.68	<0.64	0.72 I	NA	6.5 I,V	10.2	2.7 I	3.2	<0.50	<0.48	<0.48	<0.95	<0.48	257
	6/10/2009	130	1.4 I	<0.7	15.1	<0.40	<0.68	<0.64	0.76 I	<0.64	<2	10.6	3.4 I	4.0	<0.48	<0.48	<0.48	<0.96	<0.48	183
	9/15/2009	166	<0.86	<0.7	11 I	<0.40	<0.68	<0.64	<0.4	<0.64	<2	5	1.1 I	4.4	<0.48	<0.48	<0.48	<0.96	<0.48	268
CEF-076-113S	1/25/2005	7730	1130	85.3 J	4740	ND	ND	ND	87.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12700 JB
	11/18/2005	7940	878 J	ND	4010	ND	ND	ND	400 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6090 JB
	2/13/2006	9680	953 J	ND	1790	ND	ND	ND	ND	ND	315 JB	ND	ND	ND	ND	38.6 J	26.2 J	ND	ND	3510 JB
	5/10/2006	13100	1060	ND	1880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.1 J	ND	ND	ND	7290
	8/14/2006	10500	1300	ND	2500	ND	ND	ND	ND	ND	195 JB	ND	ND	ND	ND	27.1 J	ND	ND	ND	4060 JB
	5/24/2007	9900	1100	ND	1900	ND	ND	ND	91 J	ND	ND	ND	ND	ND	ND	4	5.8	ND	ND	5400
	10/25/2007	9000	800	ND	1600 J	ND	ND	ND	72	ND	37 J	ND	ND	ND	ND	2.7	3.6	ND	0.029 J	5600
	10/10/2008	11600	374	<70	1643	<40	<68	<64	49.9 I	<64	<200	206 I	77.7	53.8	<0.48	1.6 I	4.3	0.96U	<0.48	2120
	12/16/2008	10800	155 I	<70	1163	<40	<68	<64	<40	<64	509 I,V	138 I	47.2 I	37.1	<0.48	1.2 I	1.8 I	<0.96	<0.48	1970
	3/3/2009	12500	345	<70	1432	<40	<68	<64	59	<64	393 I,V	238 I	71.6 I	54.9	<0.48	2.0	3.9	<0.96	<0.48	2560
	6/10/2009	9120	459	<70	1135	<40	<68	<64	54	<64	<200	230	83.3	39.2	<0.48	2.0	9.5	<0.96	<0.48	1650
	9/15/2009	9460	319	<35	814	<20	<34	<32	28.6	<32	190 I	112 I	42.5 I	37.7	<0.48	1.5 I	<1.9	<0.96	<0.48	1550

TABLE 3
LABORATORY RESULTS FOR VOCS, PAHS AND TRPH
North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)												POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	0.8	NE	5	10	10	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	8	NE	50	100	100	140	48	280	280	2100	2100	50000
CEF-076-116D	11/17/2005	**176**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	**324**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/15/2006	**517**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**256**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**45**	**0.17 J**	ND	**1.8**	ND	ND	ND	**0.15 J**	ND	ND	ND	ND	ND	**0.045JB**	**0.029 JB**	**0.049JB**	**0.054JB**	**0.077JB**	**170 J**
	10/25/2007	**57 J**	ND	ND	**2.8 J**	ND	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	**80.1**	**1.2 I**	<0.70	**1.0 I**	<0.40	<0.68	<0.64	<0.40	<0.64	<2.0	**2.6 I**	<0.40	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**185 I**
	12/16/2008	**68.9**	**0.49 I**	<0.35	**3.2 I**	<0.40	<0.68	<0.64	**0.36 I**	<0.32	<1.0	**3.7**	**0.39 I**	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**231 I**
	3/3/2009	**45**	<0.43	<0.35	**1.3**	<0.40	<0.68	<0.64	**0.31 I**	<0.32	<1.0	**2.7**	**0.31 I**	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**191 I**
	6/10/2009	**21.3**	<0.43	<0.35	<0.78	<0.40	<0.68	<0.64	**0.22 I**	<0.32	<1.0	**2.2**	**0.31 I**	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	9/15/2009	**22.7**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	**0.6 I**	<0.20	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**162 I**
CEF-076-117D	6/10/2009	<0.40	**0.80 I**	<0.35	<0.78	<0.40	<0.68	<0.64	**2.6**	<0.32	<1.0	**24.6**	**9.1**	**1.0 I**	<0.48	<0.48	<1.9	<0.95	<0.48	**316**
	9/15/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.20	<0.32	<1.0	<0.22	<0.20	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160

NOTES:
µg/L - Micrograms per liter
GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentrations
Bold indicates value exceeds the method detection limit.
Shading indicates: Exceeds the GCTL
Exceeds both the GCTL and NADSC
NE - Not Established
ND - No Data Available
J and I - Estimated Concentration
JB - Analyte was detected in the associated method and/or calibration blank
V - Analyte detected in associated method blank, suspected lab contaminant

APPENDIX A

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORMS

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/15/09

Technical Report for

Solutions-IES, Inc

Cecil Field North Fuel Farm; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F67996

Sampling Date: 09/15/09

Report to:

Solutions-IES, Inc

keenerj@solutions-ies.com

ATTN: Jessica Keener

Total number of pages in report: **124**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Jean Dent-Smith 407-425-6700

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Solutions-IES, Inc

Job No: F67996

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F67996-1	09/15/09	11:25	JB	09/16/09	AQ	Ground Water	CEF-076-61I
F67996-2	09/15/09	14:05	JB	09/16/09	AQ	Ground Water	CEF-076-99D
F67996-3	09/15/09	12:35	JB	09/16/09	AQ	Ground Water	CEF-076-57S
F67996-4	09/15/09	14:54	JB	09/16/09	AQ	Ground Water	CEF-076-94S
F67996-5	09/15/09	09:41	JB	09/16/09	AQ	Ground Water	CEF-076-98D
F67996-6	09/15/09	11:43	JB	09/16/09	AQ	Ground Water	CEF-076-116D
F67996-7	09/15/09	09:19	JB	09/16/09	AQ	Ground Water	CEF-076-49S
F67996-8	09/15/09	15:30	JB	09/16/09	AQ	Ground Water	CEF-076-95S
F67996-9	09/15/09	15:47	JB	09/16/09	AQ	Ground Water	CEF-076-93S
F67996-10	09/15/09	10:53	JB	09/16/09	AQ	Ground Water	CEF-076-117D
F67996-11	09/15/09	12:09	JB	09/16/09	AQ	Ground Water	CEF-076-113S
F67996-12	09/15/09	00:00	JB	09/16/09	AQ	Trip Blank Water	TRIP BLANK
F67996-13	09/15/09	09:32	JB	09/16/09	AQ	Ground Water	CEF-076-110D

Sample Summary
(continued)

Solutions-IES, Inc

Job No: F67996

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F67996-14	09/15/09	10:20	JB	09/16/09	AQ	Ground Water	CEF-076-50I
F67996-15	09/15/09	08:05	JB	09/16/09	AQ	Ground Water	CEF-372-13R
F67996-16	09/15/09	12:02	JB	09/16/09	AQ	Ground Water	CEF-076-70I
F67996-17	09/15/09	09:34	JB	09/16/09	AQ	Ground Water	CEF-076-100D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc **Job No:** F67996

Site: Cecil Field North Fuel Farm; Jacksonville, FL **Report Date** 10/2/2009 11:12:42

16 Samples, 1 Trip Blank were collected on 09/15/2009 and were received at Accutest on 09/16/2009 properly preserved, at 5 Deg. C and intact. These Samples received an Accutest job number of F67996. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VB2611

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-7MS, F67996-7MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 1,2,3-Trichlorobenzene, Acrylonitrile are outside control limits. Biased high, not detected in the samples, data integrity not adversely affected.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, Ethylbenzene, n-Butylbenzene, o-Dichlorobenzene, p-Dichlorobenzene, p-Isopropyltoluene, sec-Butylbenzene, tert-Butylbenzene are outside control limits. Probable cause due to matrix interference.

F67996-11 for Methylene chloride: Suspected laboratory contaminant.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP30291

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-11MS, F67996-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for TPH (C8-C40) are outside control limits. Probable cause due to matrix interference.

Extractables by GC By Method SW846 8310

Matrix: AQ **Batch ID:** OP30281

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-15MS, F67996-15MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1-Methylnaphthalene, Acenaphthylene, Naphthalene are outside control limits. Probable cause due to matrix interference.

F67996-11: All hits confirmed by spectral match using a diode array detector.

F67996-13: All hits confirmed by spectral match using a diode array detector.

F67996-9: All hits confirmed by spectral match using a diode array detector.

F67996-1: All hits confirmed by spectral match using a diode array detector.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ **Batch ID:** GP13610

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-10DUP, F67996-10MS were used as the QC samples for Sulfate.

Wet Chemistry By Method SM19 5310B/SW 9060A

Matrix: AQ **Batch ID:** GP13636

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-1DUP, F67996-1MS were used as the QC samples for Total Organic Carbon.

Matrix Spike Recovery(s) for Total Organic Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

F67996-1 for Total Organic Carbon: Estimated value, above calibration range.

Matrix: AQ **Batch ID:** GP13648

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F68157-1DUP, F68157-1MS were used as the QC samples for Total Carbon.

Matrix Spike Recovery(s) for Total Carbon are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method SM20 4500S F

Matrix: AQ **Batch ID:** GN36667

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F67996-1MS, F67996-1DUP were used as the QC samples for Sulfide.

RPD(s) for Duplicate for Sulfide are outside control limits for sample GN36667-D1. RPD acceptable due to low duplicate and sample concentrations.

F67996-17 for Sulfide: Difficult sample matrix.

Wet Chemistry By Method SM20 5310B, 9060M

Matrix: AQ **Batch ID:** R21963

F67996-1 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21964

F67996-2 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21965

F67996-3 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21966

F67996-6 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21967

F67996-7 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21968

F67996-8 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21969

F67996-10 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21970

F67996-17 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: October 02, 2009

Svetlana Izosimova, QAO (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062587.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	13.3	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.1	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	12.8	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.91	1.0	0.25	ug/l	I
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	14.7	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	4.5	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	2.6	2.0	0.78	ug/l	
95-47-6	o-Xylene	3.2	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA051072.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.0	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.72	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	46%		43-121%
92-94-4	p-Terphenyl	30%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88019.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.372	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F67996-1	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	22.2	2.0	1.0	mg/l	1	09/29/09 19:26	SD	SM20 5310B, 9060M
Sulfate	5970	100	50	mg/l	50	09/21/09 18:29	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	58.7	1.0	0.50	mg/l	1	09/29/09 19:26	SD	SM19 5310B/SW 9060A
Total Organic Carbon [b]	36.5	1.0	0.50	mg/l	1	09/26/09 16:32	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon
(b) Estimated value, above calibration range.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062588.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051073.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		43-121%
92-94-4	p-Terphenyl	49%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88020.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.186	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		38-122%

U = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F67996-2	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	95.3	2.0	1.0	mg/l	1	09/29/09 19:39	SD	SM20 5310B, 9060M
Sulfate	1720	10	5.0	mg/l	5	09/21/09 18:48	CC	EPA 300/SW846 9056
Sulfide	0.79 I	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	112	1.0	0.50	mg/l	1	09/29/09 19:39	SD	SM19 5310B/SW 9060A
Total Organic Carbon	16.7	1.0	0.50	mg/l	1	09/26/09 16:47	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062589.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.0	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

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RL = Reporting Limit = PQL
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.38	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.4	2.0	0.78	ug/l	I
95-47-6	o-Xylene	0.62	1.0	0.37	ug/l	I

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051074.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		43-121%
92-94-4	p-Terphenyl	53%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88021.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.198	0.25	0.17	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F67996-3	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	6.9	2.0	1.0	mg/l	1	09/29/09 19:50	SD	SM20 5310B, 9060M
Sulfate	1790	10	5.0	mg/l	5	09/21/09 19:08	CC	EPA 300/SW846 9056
Sulfide	0.66 I	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	19.1	1.0	0.50	mg/l	1	09/29/09 19:50	SD	SM19 5310B/SW 9060A
Total Organic Carbon	12.2	1.0	0.50	mg/l	1	09/26/09 17:03	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F67996-4	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062590.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.9	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F67996-4	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F67996-4	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F67996-4	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051075.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		43-121%
92-94-4	p-Terphenyl	53%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F67996-4	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88022.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.291	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F67996-5	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062591.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	33.7	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F67996-5	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.3	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.66	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.22	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.94	2.0	0.78	ug/l	I
95-47-6	o-Xylene	2.6	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F67996-5	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F67996-5	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051076.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	65%		43-121%
92-94-4	p-Terphenyl	53%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F67996-5	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88023.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.265	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062592.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	36.2	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	22.7	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	17.1	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	5.2	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.60	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051077.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		43-121%
92-94-4	p-Terphenyl	85%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88024.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.162	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F67996-6	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	9.0	2.0	1.0	mg/l	1	09/29/09 20:13	SD	SM20 5310B, 9060M
Sulfate	12100	100	50	mg/l	50	09/21/09 19:27	CC	EPA 300/SW846 9056
Sulfide	1.6	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	58.9	1.0	0.50	mg/l	1	09/29/09 20:13	SD	SM19 5310B/SW 9060A
Total Organic Carbon	49.9	1.0	0.50	mg/l	1	09/26/09 17:18	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062593.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.1	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051078.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		43-121%
92-94-4	p-Terphenyl	72%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88027.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F67996-7	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	15.3	2.0	1.0	mg/l	1	09/29/09 20:22	SD	SM20 5310B, 9060M
Sulfate	2760	20	10	mg/l	10	09/22/09 10:36	CC	EPA 300/SW846 9056
Sulfide	0.64 I	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	32.8	1.0	0.50	mg/l	1	09/29/09 20:22	SD	SM19 5310B/SW 9060A
Total Organic Carbon	17.5	1.0	0.50	mg/l	1	09/26/09 18:08	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062594.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	1.4	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.37	1.0	0.35	ug/l	I
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051081.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		43-121%
92-94-4	p-Terphenyl	72%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88028.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F67996-8	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	18.9	2.0	1.0	mg/l	1	09/29/09 20:29	SD	SM20 5310B, 9060M
Sulfate	9.9	2.0	1.0	mg/l	1	09/21/09 20:45	CC	EPA 300/SW846 9056
Sulfide	1.8	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	28.5	1.0	0.50	mg/l	1	09/29/09 20:29	SD	SM19 5310B/SW 9060A
Total Organic Carbon	9.6	1.0	0.50	mg/l	1	09/26/09 18:23	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F67996-9	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062598.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.1	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.27	1.0	0.25	ug/l	I
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F67996-9	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	6.0	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.3	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	3.5	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	0.86	1.0	0.25	ug/l	I
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.7	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	2.5	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	3.8	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	32.9	2.0	0.78	ug/l	
95-47-6	o-Xylene	14.6	1.0	0.37	ug/l	

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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F67996-9	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F67996-9	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA051085.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.5	1.9	0.96	ug/l	I
90-12-0	1-Methylnaphthalene	0.71	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.4	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		43-121%
92-94-4	p-Terphenyl	61%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F67996-9	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88029.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.299	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062599.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	108%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE064010.D	1	09/22/09	FEA	09/17/09	OP30281	GEE2324
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		43-121%
92-94-4	p-Terphenyl	76%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88030.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F67996-10	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	6.3	2.0	1.0	mg/l	1	09/29/09 20:38	SD	SM20 5310B, 9060M
Sulfate	1.7 I	2.0	1.0	mg/l	1	09/21/09 21:04	CC	EPA 300/SW846 9056
Sulfide	1.0	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	8.0	1.0	0.50	mg/l	1	09/29/09 20:38	SD	SM19 5310B/SW 9060A
Total Organic Carbon	1.7	1.0	0.50	mg/l	1	09/26/09 18:40	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F67996-11	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062600.D	100	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	1000 U	2500	1000	ug/l	
107-02-8	Acrolein	500 U	2000	500	ug/l	
107-13-1	Acrylonitrile	200 U	1000	200	ug/l	
71-43-2	Benzene	9460	100	40	ug/l	
108-86-1	Bromobenzene	26 U	100	26	ug/l	
74-97-5	Bromochloromethane	23 U	100	23	ug/l	
75-27-4	Bromodichloromethane	20 U	100	20	ug/l	
75-25-2	Bromoform	33 U	100	33	ug/l	
104-51-8	n-Butylbenzene	28 U	100	28	ug/l	
135-98-8	sec-Butylbenzene	25 U	100	25	ug/l	
98-06-6	tert-Butylbenzene	32 U	100	32	ug/l	
108-90-7	Chlorobenzene	22 U	100	22	ug/l	
75-00-3	Chloroethane	48 U	200	48	ug/l	
67-66-3	Chloroform	28 U	100	28	ug/l	
95-49-8	o-Chlorotoluene	25 U	100	25	ug/l	
106-43-4	p-Chlorotoluene	21 U	100	21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	100 U	500	100	ug/l	
75-15-0	Carbon disulfide	40 U	200	40	ug/l	
56-23-5	Carbon tetrachloride	22 U	100	22	ug/l	
75-34-3	1,1-Dichloroethane	24 U	100	24	ug/l	
75-35-4	1,1-Dichloroethylene	54 U	100	54	ug/l	
563-58-6	1,1-Dichloropropene	23 U	100	23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	32 U	200	32	ug/l	
106-93-4	1,2-Dibromoethane	28 U	100	28	ug/l	
107-06-2	1,2-Dichloroethane	34 U	100	34	ug/l	
78-87-5	1,2-Dichloropropane	21 U	100	21	ug/l	
142-28-9	1,3-Dichloropropane	26 U	100	26	ug/l	
594-20-7	2,2-Dichloropropane	28 U	100	28	ug/l	
124-48-1	Dibromochloromethane	20 U	100	20	ug/l	
75-71-8	Dichlorodifluoromethane	100 U	200	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	20 U	100	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	21 U	100	21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F67996-11	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	23 U	100	23	ug/l	
95-50-1	o-Dichlorobenzene	20 U	100	20	ug/l	
106-46-7	p-Dichlorobenzene	22 U	100	22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	45 U	100	45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	21 U	100	21	ug/l	
100-41-4	Ethylbenzene	319	100	43	ug/l	
591-78-6	2-Hexanone	500 U	1000	500	ug/l	
87-68-3	Hexachlorobutadiene	69 U	200	69	ug/l	
98-82-8	Isopropylbenzene	28.6	100	20	ug/l	I
99-87-6	p-Isopropyltoluene	32 U	100	32	ug/l	
108-10-1	4-Methyl-2-pentanone	200 U	500	200	ug/l	
74-83-9	Methyl bromide	78 U	200	78	ug/l	
74-87-3	Methyl chloride	61 U	200	61	ug/l	
74-95-3	Methylene bromide	30 U	200	30	ug/l	
75-09-2	Methylene chloride [a]	190	500	100	ug/l	I
78-93-3	Methyl ethyl ketone	200 U	500	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	26 U	100	26	ug/l	
91-20-3	Naphthalene	100 U	500	100	ug/l	
103-65-1	n-Propylbenzene	25 U	100	25	ug/l	
100-42-5	Styrene	36 U	100	36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	20 U	100	20	ug/l	
71-55-6	1,1,1-Trichloroethane	33 U	100	33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	21 U	100	21	ug/l	
79-00-5	1,1,2-Trichloroethane	26 U	100	26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	50 U	100	50	ug/l	
96-18-4	1,2,3-Trichloropropane	34 U	200	34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	50 U	100	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	112	200	22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	42.5	200	20	ug/l	I
127-18-4	Tetrachloroethylene	22 U	100	22	ug/l	
108-88-3	Toluene	35 U	100	35	ug/l	
79-01-6	Trichloroethylene	32 U	100	32	ug/l	
75-69-4	Trichlorofluoromethane	50 U	200	50	ug/l	
75-01-4	Vinyl chloride	30 U	100	30	ug/l	
108-05-4	Vinyl Acetate	360 U	1000	360	ug/l	
	m,p-Xylene	550	200	78	ug/l	
95-47-6	o-Xylene	264	100	37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F67996-11	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F67996-11	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA051087.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	37.7	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	1.5	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.9 U	1.9	1.9	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		43-121%
92-94-4	p-Terphenyl	85%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F67996-11	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88031.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.55	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F67996-12	**Date Sampled:**	09/15/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062601.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F67996-12	**Date Sampled:**	09/15/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F67996-12	**Date Sampled:**	09/15/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F67996-13	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062602.D	2	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20 U	50	20	ug/l	
107-02-8	Acrolein	10 U	40	10	ug/l	
107-13-1	Acrylonitrile	4.0 U	20	4.0	ug/l	
71-43-2	Benzene	166	2.0	0.80	ug/l	
108-86-1	Bromobenzene	0.52 U	2.0	0.52	ug/l	
74-97-5	Bromochloromethane	0.46 U	2.0	0.46	ug/l	
75-27-4	Bromodichloromethane	0.40 U	2.0	0.40	ug/l	
75-25-2	Bromoform	0.66 U	2.0	0.66	ug/l	
104-51-8	n-Butylbenzene	0.56 U	2.0	0.56	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	2.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	0.64 U	2.0	0.64	ug/l	
108-90-7	Chlorobenzene	0.44 U	2.0	0.44	ug/l	
75-00-3	Chloroethane	0.96 U	4.0	0.96	ug/l	
67-66-3	Chloroform	0.56 U	2.0	0.56	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	2.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	0.42 U	2.0	0.42	ug/l	
110-75-8	2-Chloroethyl vinyl ether	2.0 U	10	2.0	ug/l	
75-15-0	Carbon disulfide	0.80 U	4.0	0.80	ug/l	
56-23-5	Carbon tetrachloride	0.44 U	2.0	0.44	ug/l	
75-34-3	1,1-Dichloroethane	0.48 U	2.0	0.48	ug/l	
75-35-4	1,1-Dichloroethylene	1.1 U	2.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	0.46 U	2.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.64 U	4.0	0.64	ug/l	
106-93-4	1,2-Dibromoethane	0.56 U	2.0	0.56	ug/l	
107-06-2	1,2-Dichloroethane	0.68 U	2.0	0.68	ug/l	
78-87-5	1,2-Dichloropropane	0.42 U	2.0	0.42	ug/l	
142-28-9	1,3-Dichloropropane	0.52 U	2.0	0.52	ug/l	
594-20-7	2,2-Dichloropropane	0.56 U	2.0	0.56	ug/l	
124-48-1	Dibromochloromethane	0.40 U	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	2.0 U	4.0	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.40 U	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F67996-13	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.46 U	2.0	0.46	ug/l	
95-50-1	o-Dichlorobenzene	0.40 U	2.0	0.40	ug/l	
106-46-7	p-Dichlorobenzene	0.44 U	2.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.90 U	2.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	0.86 U	2.0	0.86	ug/l	
591-78-6	2-Hexanone	10 U	20	10	ug/l	
87-68-3	Hexachlorobutadiene	1.4 U	4.0	1.4	ug/l	
98-82-8	Isopropylbenzene	0.40 U	2.0	0.40	ug/l	
99-87-6	p-Isopropyltoluene	0.64 U	2.0	0.64	ug/l	
108-10-1	4-Methyl-2-pentanone	4.0 U	10	4.0	ug/l	
74-83-9	Methyl bromide	1.6 U	4.0	1.6	ug/l	
74-87-3	Methyl chloride	1.2 U	4.0	1.2	ug/l	
74-95-3	Methylene bromide	0.60 U	4.0	0.60	ug/l	
75-09-2	Methylene chloride	2.0 U	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	4.0 U	10	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.52 U	2.0	0.52	ug/l	
91-20-3	Naphthalene	4.0	10	2.0	ug/l	I
103-65-1	n-Propylbenzene	0.50 U	2.0	0.50	ug/l	
100-42-5	Styrene	0.72 U	2.0	0.72	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.40 U	2.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	0.66 U	2.0	0.66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.42 U	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	0.52 U	2.0	0.52	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	0.68 U	4.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	5.0	4.0	0.44	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.1	4.0	0.40	ug/l	I
127-18-4	Tetrachloroethylene	0.44 U	2.0	0.44	ug/l	
108-88-3	Toluene	0.70 U	2.0	0.70	ug/l	
79-01-6	Trichloroethylene	0.64 U	2.0	0.64	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.60 U	2.0	0.60	ug/l	
108-05-4	Vinyl Acetate	7.2 U	20	7.2	ug/l	
	m,p-Xylene	1.8	4.0	1.6	ug/l	I
95-47-6	o-Xylene	9.2	2.0	0.74	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F67996-13	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F67996-13	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA051088.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	4.4	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		43-121%
92-94-4	p-Terphenyl	85%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F67996-13	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88034.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.268	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F67996-14	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062603.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	19.9	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F67996-14	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.86	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.26	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.9	2.0	0.78	ug/l	I
95-47-6	o-Xylene	4.8	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F67996-14	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F67996-14	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051089.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		43-121%
92-94-4	p-Terphenyl	79%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F67996-14	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88037.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.249	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-372-13R		
Lab Sample ID:	F67996-15	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062604.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-372-13R		
Lab Sample ID:	F67996-15	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-372-13R		
Lab Sample ID:	F67996-15	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-372-13R		
Lab Sample ID:	F67996-15	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051082.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		43-121%
92-94-4	p-Terphenyl	60%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-372-13R		
Lab Sample ID:	F67996-15	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88038.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		38-122%

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F67996-16	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062605.D	2	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20 U	50	20	ug/l	
107-02-8	Acrolein	10 U	40	10	ug/l	
107-13-1	Acrylonitrile	4.0 U	20	4.0	ug/l	
71-43-2	Benzene	108	2.0	0.80	ug/l	
108-86-1	Bromobenzene	0.52 U	2.0	0.52	ug/l	
74-97-5	Bromochloromethane	0.46 U	2.0	0.46	ug/l	
75-27-4	Bromodichloromethane	0.40 U	2.0	0.40	ug/l	
75-25-2	Bromoform	0.66 U	2.0	0.66	ug/l	
104-51-8	n-Butylbenzene	0.56 U	2.0	0.56	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	2.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	0.64 U	2.0	0.64	ug/l	
108-90-7	Chlorobenzene	0.44 U	2.0	0.44	ug/l	
75-00-3	Chloroethane	0.96 U	4.0	0.96	ug/l	
67-66-3	Chloroform	0.56 U	2.0	0.56	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	2.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	0.42 U	2.0	0.42	ug/l	
110-75-8	2-Chloroethyl vinyl ether	2.0 U	10	2.0	ug/l	
75-15-0	Carbon disulfide	0.80 U	4.0	0.80	ug/l	
56-23-5	Carbon tetrachloride	0.44 U	2.0	0.44	ug/l	
75-34-3	1,1-Dichloroethane	0.48 U	2.0	0.48	ug/l	
75-35-4	1,1-Dichloroethylene	1.1 U	2.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	0.46 U	2.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.64 U	4.0	0.64	ug/l	
106-93-4	1,2-Dibromoethane	0.56 U	2.0	0.56	ug/l	
107-06-2	1,2-Dichloroethane	0.68 U	2.0	0.68	ug/l	
78-87-5	1,2-Dichloropropane	0.42 U	2.0	0.42	ug/l	
142-28-9	1,3-Dichloropropane	0.52 U	2.0	0.52	ug/l	
594-20-7	2,2-Dichloropropane	0.56 U	2.0	0.56	ug/l	
124-48-1	Dibromochloromethane	0.40 U	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	2.0 U	4.0	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.40 U	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	

U = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F67996-16	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.46 U	2.0	0.46	ug/l	
95-50-1	o-Dichlorobenzene	0.40 U	2.0	0.40	ug/l	
106-46-7	p-Dichlorobenzene	0.44 U	2.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.90 U	2.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	5.3	2.0	0.86	ug/l	
591-78-6	2-Hexanone	10 U	20	10	ug/l	
87-68-3	Hexachlorobutadiene	1.4 U	4.0	1.4	ug/l	
98-82-8	Isopropylbenzene	8.0	2.0	0.40	ug/l	
99-87-6	p-Isopropyltoluene	0.64 U	2.0	0.64	ug/l	
108-10-1	4-Methyl-2-pentanone	4.0 U	10	4.0	ug/l	
74-83-9	Methyl bromide	1.6 U	4.0	1.6	ug/l	
74-87-3	Methyl chloride	1.2 U	4.0	1.2	ug/l	
74-95-3	Methylene bromide	0.60 U	4.0	0.60	ug/l	
75-09-2	Methylene chloride	2.0 U	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	4.0 U	10	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.52 U	2.0	0.52	ug/l	
91-20-3	Naphthalene	15.8	10	2.0	ug/l	
103-65-1	n-Propylbenzene	6.4	2.0	0.50	ug/l	
100-42-5	Styrene	0.72 U	2.0	0.72	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.40 U	2.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	0.66 U	2.0	0.66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.42 U	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	0.52 U	2.0	0.52	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	0.68 U	4.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	62.4	4.0	0.44	ug/l	
108-67-8	1,3,5-Trimethylbenzene	19.1	4.0	0.40	ug/l	
127-18-4	Tetrachloroethylene	0.44 U	2.0	0.44	ug/l	
108-88-3	Toluene	0.70 U	2.0	0.70	ug/l	
79-01-6	Trichloroethylene	0.64 U	2.0	0.64	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.60 U	2.0	0.60	ug/l	
108-05-4	Vinyl Acetate	7.2 U	20	7.2	ug/l	
	m,p-Xylene	50.7	4.0	1.6	ug/l	
95-47-6	o-Xylene	47.3	2.0	0.74	ug/l	

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F67996-16	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F67996-16	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051090.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		43-121%
92-94-4	p-Terphenyl	85%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F67996-16	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88039.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.481	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B062606.D	1	09/17/09	AJ	n/a	n/a	VB2611
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA051093.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		43-121%
92-94-4	p-Terphenyl	61%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP88040.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.249	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F67996-17	**Date Sampled:**	09/15/09
Matrix:	AQ - Ground Water	**Date Received:**	09/16/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	42.5	2.0	1.0	mg/l	1	09/29/09 20:44	SD	SM20 5310B, 9060M
Sulfate	2620	50	25	mg/l	25	09/21/09 21:24	CC	EPA 300/SW846 9056
Sulfide [b]	14.2	1.0	0.60	mg/l	1	09/17/09	LE	SM20 4500S F
Total Carbon	52.0	1.0	0.50	mg/l	1	09/29/09 20:44	SD	SM19 5310B/SW 9060A
Total Organic Carbon	9.5	1.0	0.50	mg/l	1	09/26/09 18:54	SD	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon
(b) Difficult sample matrix.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F67996 PAGE 1 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: E-mail: JKeenan@solutions-IES.com
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed): JB BC CD SJ EG

Project Information

Project Name: North Fuel Farm - Cecil Field
Street:
City: Jacksonville State: FL
Project #: 8030
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	VOC 8260B	PAH 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	Total Inorganic Carbon 415.2					Matrix Codes / LAB USE ONLY
1	CEF-076-61I	9/15/09	1125	JB	GW	15		X	X			X	X			X	X	X	X	X	X	X					
2	CEF-076-99D		1405	SJ		15		X	X			X	X						X	X	X	X					
3	CEF-076-57S		1235	SJ		15		X	X			X	X						X	X	X	X					
4	CEF-076-94S		1454	CD		7		X	X			X															
5	CEF-076-98D		0941	CD		7		X	X			X															
6	CEF-076-116D		1143	CD		15		X	X			X	X						X	X	X	X					
7	CEF-076-49S		0919	JB		15		X	X			X	X						X	X	X	X					
8	CEF-076-95S		1530	SJ		15		X	X			X	X						X	X	X	X					
9	CEF-076-93S		1547	CD		6		X	X			X															
10	CEF-076-117D		1053	BC		15		X	X			X	X						X	X	X	X					
11	CEF-076-113S		1209	BC		7		X	X			X															
12	trip Blank					2			X					X													

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days) — Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Dan Mashey	9/16/09 1700	2 [illegible] 9/16/09 1700	3 [illegible]	9/18/09 1800	4 [illegible] Accutest 9/16/09 8:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 12 Cooler Temperature (s) Celsius: 2.0 2.8 3.2 3.8 3.0 3.2 2.4 4.2 5.0 4

4.1
4

F67996: Chain of Custody
Page 1 of 3

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F67996 PAGE 2 OF 2

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Solutions IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Jessica Keener E-mail: JKeener@solutions-ies.com
Phone#: (919) 454-7747
Sampler(s) Name(s) (Printed): JB/CD/BC/EG

Project Information

Project Name: North Fuel Farm - Cecil Field
Street:
City: Jacksonville State: FL
Project #: 8030
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	VOCs 8260B	PAHs 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	Inorganic Carbon 415.2					LAB USE ONLY
13	CEF-076-110D	9/15/09	0932	BC	GW	7		X	X			X				X	X	X									
14	CEF-076-50I		1020	JB		7		X	X			X				X	X	X									
15	CEF-372-13R		0905	JB		7		X	X			X				X	X	X									
16	CEF-076-70I		1202	EG		7		X	X			X				X	X	X									
17	CEF-076-100D		0934	EG		15		X	X			X	X			X	X	X	X	X	X	X					

TURNAROUND TIME (Business Days)

Approved By: / Rush Code
- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information
- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	9/15/09 1700	2 [signature] 9/15/09 1700	3 [signature]	9/15/09 1900	4 [signature] Accutest 9/16/09 8:00
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 12 Cooler Temperature (s) Celsius: 2.0 2.8 3.2 3.8 4.0 3.0 3.2 2.4 4.2 5.0 4.8

F67996: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F67996 CLIENT: Solutions PROJECT: North fuel farm

DATE/TIME RECEIVED: 9/16/09 8:00 # OF COOLERS RECEIVED: 12 COOLER TEMPS: 2.0 2.8 3.2 3.8 4.0 3.0 3.2 2.4 4.2 5.0 4.8 4.6

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [x] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [x] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: recieved 3 trip Blanks 2 not on coc Sample recieved 1 set of 3 HCL vials without labels, vials were bagged together with the rest of the sample. Sample only recieved 2 vials HCL

TECHNICIAN SIGNATURE/DATE CLR 9/16/09 TECHNICIAN SIGNATURE/DATE BT: 9-16-09

ASBD 12/17/07

4.1

4

F67996: Chain of Custody

Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-MB	B062586.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-MB	B062586.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-MB	B062586.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	105%	86-112%
460-00-4	4-Bromofluorobenzene	106%	84-120%

Blank Spike Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-BS	B062585.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	140	112	59-134
107-02-8	Acrolein	125	66.2	53	33-157
107-13-1	Acrylonitrile	125	166	133*	62-124
71-43-2	Benzene	25	26.3	105	83-124
108-86-1	Bromobenzene	25	22.7	91	83-115
74-97-5	Bromochloromethane	25	24.6	98	78-112
75-27-4	Bromodichloromethane	25	23.2	93	76-116
75-25-2	Bromoform	25	19.6	78	68-128
104-51-8	n-Butylbenzene	25	22.2	89	84-124
135-98-8	sec-Butylbenzene	25	23.7	95	86-127
98-06-6	tert-Butylbenzene	25	22.7	91	83-126
108-90-7	Chlorobenzene	25	23.9	96	87-115
75-00-3	Chloroethane	25	28.4	114	54-166
67-66-3	Chloroform	25	25.2	101	85-123
95-49-8	o-Chlorotoluene	25	23.2	93	84-121
106-43-4	p-Chlorotoluene	25	24.7	99	84-120
110-75-8	2-Chloroethyl vinyl ether	125	109	87	63-125
75-15-0	Carbon disulfide	25	31.6	126	67-147
56-23-5	Carbon tetrachloride	25	26.5	106	74-139
75-34-3	1,1-Dichloroethane	25	27.0	108	82-127
75-35-4	1,1-Dichloroethylene	25	28.2	113	75-133
563-58-6	1,1-Dichloropropene	25	28.8	115	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	21.1	84	61-118
106-93-4	1,2-Dibromoethane	25	22.4	90	80-115
107-06-2	1,2-Dichloroethane	25	25.3	101	76-122
78-87-5	1,2-Dichloropropane	25	25.8	103	81-120
142-28-9	1,3-Dichloropropane	25	24.8	99	81-113
594-20-7	2,2-Dichloropropane	25	30.3	121	77-138
124-48-1	Dibromochloromethane	25	21.5	86	74-116
75-71-8	Dichlorodifluoromethane	25	27.7	111	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.2	105	81-114
10061-01-5	cis-1,3-Dichloropropene	25	22.0	88	83-119
541-73-1	m-Dichlorobenzene	25	23.3	93	86-115
95-50-1	o-Dichlorobenzene	25	21.8	87	85-115
106-46-7	p-Dichlorobenzene	25	23.0	92	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.5	114	82-126

Blank Spike Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-BS	B062585.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	87-123
100-41-4	Ethylbenzene	25	23.0	92	87-118
591-78-6	2-Hexanone	125	119	95	58-125
87-68-3	Hexachlorobutadiene	25	22.9	92	71-133
98-82-8	Isopropylbenzene	25	23.3	93	87-131
99-87-6	p-Isopropyltoluene	25	23.3	93	83-125
108-10-1	4-Methyl-2-pentanone	125	118	94	62-125
74-83-9	Methyl bromide	25	28.5	114	55-151
74-87-3	Methyl chloride	25	27.8	111	55-173
74-95-3	Methylene bromide	25	24.9	100	81-116
75-09-2	Methylene chloride	25	25.4	102	69-125
78-93-3	Methyl ethyl ketone	125	151	121	61-127
1634-04-4	Methyl Tert Butyl Ether	25	25.4	102	75-116
91-20-3	Naphthalene	25	27.6	110	59-125
103-65-1	n-Propylbenzene	25	24.0	96	86-125
100-42-5	Styrene	25	21.4	86	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	22.5	90	81-119
71-55-6	1,1,1-Trichloroethane	25	25.2	101	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.7	95	71-120
79-00-5	1,1,2-Trichloroethane	25	23.8	95	80-114
87-61-6	1,2,3-Trichlorobenzene	25	33.9	136*	64-126
96-18-4	1,2,3-Trichloropropane	25	20.2	81	77-115
120-82-1	1,2,4-Trichlorobenzene	25	23.0	92	68-123
95-63-6	1,2,4-Trimethylbenzene	25	21.8	87	82-120
108-67-8	1,3,5-Trimethylbenzene	25	23.3	93	83-123
127-18-4	Tetrachloroethylene	25	25.5	102	80-131
108-88-3	Toluene	25	25.4	102	86-116
79-01-6	Trichloroethylene	25	24.4	98	85-124
75-69-4	Trichlorofluoromethane	25	31.2	125	66-156
75-01-4	Vinyl chloride	25	28.7	115	57-153
108-05-4	Vinyl Acetate	125	186	149	38-159
	m,p-Xylene	50	45.7	91	86-121
95-47-6	o-Xylene	25	22.6	90	83-121

Blank Spike Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2611-BS	B062585.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F67996-7MS	B062596.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7MSD	B062597.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7	B062593.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	F67996-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	130	104	140	112	7	59-134/14
107-02-8	Acrolein	20 U		125	55.3	44	58.1	46	5	33-157/21
107-13-1	Acrylonitrile	10 U		125	138	110	143	114	4	62-124/13
71-43-2	Benzene	1.1		25	29.6	114	28.5	110	4	83-124/11
108-86-1	Bromobenzene	1.0 U		25	22.1	88	21.4	86	3	83-115/10
74-97-5	Bromochloromethane	1.0 U		25	23.2	93	23.4	94	1	78-112/10
75-27-4	Bromodichloromethane	1.0 U		25	21.8	87	21.4	86	2	76-116/10
75-25-2	Bromoform	1.0 U		25	18.7	75	19.1	76	2	68-128/11
104-51-8	n-Butylbenzene	1.0 U		25	21.1	84	20.2	81*	4	84-124/10
135-98-8	sec-Butylbenzene	1.0 U		25	22.5	90	21.3	85*	5	86-127/10
98-06-6	tert-Butylbenzene	1.0 U		25	22.0	88	20.6	82*	7	83-126/10
108-90-7	Chlorobenzene	1.0 U		25	23.0	92	22.6	90	2	87-115/9
75-00-3	Chloroethane	2.0 U		25	28.8	115	27.7	111	4	54-166/20
67-66-3	Chloroform	1.0 U		25	23.4	94	23.5	94	0	85-123/10
95-49-8	o-Chlorotoluene	1.0 U		25	22.5	90	21.9	88	3	84-121/10
106-43-4	p-Chlorotoluene	1.0 U		25	23.5	94	22.5	90	4	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U		25	28.8	115	28.3	113	2	67-147/12
56-23-5	Carbon tetrachloride	1.0 U		25	24.8	99	24.8	99	0	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	26.1	104	25.6	102	2	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.8	111	28.5	114	2	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U		25	26.7	107	25.8	103	3	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	20.7	83	20.5	82	1	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U		25	22.6	90	22.0	88	3	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U		25	23.7	95	23.2	93	2	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	23.3	93	23.6	94	1	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U		25	22.5	90	23.6	94	5	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U		25	28.6	114	27.5	110	4	77-138/12
124-48-1	Dibromochloromethane	1.0 U		25	21.4	86	20.7	83	3	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	21.1	84	26.3	105	22	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	24.9	100	23.6	94	5	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.2	81*	19.9	80*	1	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	22.1	88	21.6	86	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	21.4	86	20.9	84*	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	22.3	89	21.5	86*	4	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	27.0	108	26.8	107	1	82-126/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F67996-7MS	B062596.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7MSD	B062597.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7	B062593.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	F67996-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0	U	25	25.4	102	25.3	101	0	87-123/10
100-41-4	Ethylbenzene	1.0	U	25	22.1	88	21.6	86*	2	87-118/10
591-78-6	2-Hexanone	10	U	125	118	94	124	99	5	58-125/14
87-68-3	Hexachlorobutadiene	2.0	U	25	20.9	84	20.8	83	0	71-133/12
98-82-8	Isopropylbenzene	1.0	U	25	22.8	91	21.8	87	4	87-131/10
99-87-6	p-Isopropyltoluene	1.0	U	25	21.8	87	20.6	82*	6	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0	U	125	116	93	118	94	2	62-125/13
74-83-9	Methyl bromide	2.0	U	25	28.2	113	26.7	107	5	55-151/21
74-87-3	Methyl chloride	2.0	U	25	25.0	100	24.3	97	3	55-173/22
74-95-3	Methylene bromide	2.0	U	25	23.5	94	23.6	94	0	81-116/10
75-09-2	Methylene chloride	5.0	U	25	23.0	92	22.0	88	4	69-125/11
78-93-3	Methyl ethyl ketone	5.0	U	125	139	111	140	112	1	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0	U	25	25.5	102	25.5	102	0	75-116/10
91-20-3	Naphthalene	5.0	U	25	25.7	103	23.3	93	10	59-125/15
103-65-1	n-Propylbenzene	1.0	U	25	23.1	92	22.0	88	5	86-125/10
100-42-5	Styrene	1.0	U	25	20.7	83	20.2	81	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	25	21.0	84	21.0	84	0	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0	U	25	24.5	98	24.3	97	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	25	22.8	91	23.0	92	1	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0	U	25	23.2	93	22.7	91	2	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0	U	25	21.6	86	20.9	84	3	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0	U	25	20.7	83	20.1	80	3	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0	U	25	20.6	82	20.8	83	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0	U	25	21.6	86	20.4	82	6	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0	U	25	22.7	91	21.8	87	4	83-123/10
127-18-4	Tetrachloroethylene	1.0	U	25	23.8	95	24.6	98	3	80-131/12
108-88-3	Toluene	1.0	U	25	23.6	94	23.7	95	0	86-116/10
79-01-6	Trichloroethylene	1.0	U	25	22.7	91	23.5	94	3	85-124/10
75-69-4	Trichlorofluoromethane	2.0	U	25	32.1	128	30.9	124	4	66-156/15
75-01-4	Vinyl chloride	1.0	U	25	28.1	112	26.8	107	5	57-153/22
108-05-4	Vinyl Acetate	10	U	125	176	141	177	142	1	38-159/11
	m,p-Xylene	2.0	U	50	45.4	91	44.0	88	3	86-121/10
95-47-6	o-Xylene	1.0	U	25	22.8	91	22.1	88	3	83-121/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F67996-7MS	B062596.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7MSD	B062597.D	1	09/17/09	AJ	n/a	n/a	VB2611
F67996-7	B062593.D	1	09/17/09	AJ	n/a	n/a	VB2611

The QC reported here applies to the following samples: **Method:** SW846 8260B

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-12, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Surrogate Recoveries	MS	MSD	F67996-7	Limits
1868-53-7	Dibromofluoromethane	105%	105%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	106%	103%	76-127%
2037-26-5	Toluene-D8	102%	101%	104%	86-112%
460-00-4	4-Bromofluorobenzene	101%	99%	100%	84-120%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30281-MB	AA051070.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031

The QC reported here applies to the following samples: **Method:** SW846 8310

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	2.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	43-121%
92-94-4	p-Terphenyl	84%	30-122%

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30281-MB	EE064009.D	1	09/22/09	FEA	09/17/09	OP30281	GEE2324

The QC reported here applies to the following samples: **Method:** SW846 8310

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	2.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	43-121%
92-94-4	p-Terphenyl	91%	30-122%

Method Blank Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30291-MB	OP88018.D	1	09/21/09	SL	09/18/09	OP30291	GOP2287

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	93%	38-122%

Blank Spike Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30281-BS	AA051069.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031

The QC reported here applies to the following samples: **Method:** SW846 8310

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	15.2	76	60-102
208-96-8	Acenaphthylene	20	16.0	80	66-108
120-12-7	Anthracene	10	9.3	93	64-107
56-55-3	Benzo(a)anthracene	10	8.8	88	70-108
50-32-8	Benzo(a)pyrene	10	9.4	94	72-115
205-99-2	Benzo(b)fluoranthene	10	8.7	87	73-111
191-24-2	Benzo(g,h,i)perylene	10	8.6	86	69-113
207-08-9	Benzo(k)fluoranthene	10	8.7	87	70-111
218-01-9	Chrysene	10	9.1	91	71-111
53-70-3	Dibenzo(a,h)anthracene	10	8.6	86	71-114
206-44-0	Fluoranthene	20	16.8	84	68-110
86-73-7	Fluorene	20	16.1	81	63-102
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.2	82	69-110
91-20-3	Naphthalene	20	13.5	68	55-94
90-12-0	1-Methylnaphthalene	20	14.0	70	55-97
91-57-6	2-Methylnaphthalene	20	13.9	70	51-97
85-01-8	Phenanthrene	20	17.4	87	67-108
129-00-0	Pyrene	20	17.2	86	71-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	43-121%
92-94-4	p-Terphenyl	82%	30-122%

Blank Spike Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30291-BS	OP88017.D	1	09/21/09	SL	09/18/09	OP30291	GOP2287

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.661	78	54-110

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	87%	38-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30281-MS	AA051083.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
OP30281-MSD	AA051084.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031
F67996-15	AA051082.D	1	09/21/09	FEA	09/17/09	OP30281	GAA2031

The QC reported here applies to the following samples: **Method:** SW846 8310

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	F67996-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	1.9	U	38.5	23.1	60	26.2	68	13	60-102/33
208-96-8	Acenaphthylene	1.9	U	38.5	24.3	63*	27.9	73	14	66-108/32
120-12-7	Anthracene	1.9	U	19.2	15.6	81	15.4	80	1	64-107/28
56-55-3	Benzo(a)anthracene	0.19	U	19.2	16.2	84	15.7	82	3	70-108/19
50-32-8	Benzo(a)pyrene	0.19	U	19.2	17.3	90	16.8	87	3	72-115/20
205-99-2	Benzo(b)fluoranthene	0.19	U	19.2	16.2	84	15.9	83	2	73-111/20
191-24-2	Benzo(g,h,i)perylene	0.19	U	19.2	16.2	84	15.8	82	2	69-113/22
207-08-9	Benzo(k)fluoranthene	0.19	U	19.2	16.1	84	15.7	82	3	70-111/21
218-01-9	Chrysene	1.9	U	19.2	16.7	87	16.3	85	2	71-111/20
53-70-3	Dibenzo(a,h)anthracene	0.19	U	19.2	16.3	85	15.9	83	2	71-114/23
206-44-0	Fluoranthene	1.9	U	38.5	29.9	78	28.3	74	5	68-110/17
86-73-7	Fluorene	1.9	U	38.5	25.1	65	27.3	71	8	63-102/25
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	19.2	15.5	81	15.2	79	2	69-110/22
91-20-3	Naphthalene	1.9	U	38.5	20.0	52*	23.6	61	17	55-94/28
90-12-0	1-Methylnaphthalene	1.9	U	38.5	20.6	54*	24.1	63	16	55-97/29
91-57-6	2-Methylnaphthalene	1.9	U	38.5	20.5	53	23.9	62	15	51-97/25
85-01-8	Phenanthrene	1.9	U	38.5	28.9	75	29.3	76	1	67-108/22
129-00-0	Pyrene	1.9	U	38.5	30.9	80	29.3	76	5	71-107/17

CAS No.	Surrogate Recoveries	MS	MSD	F67996-15	Limits
84-15-1	o-Terphenyl	71%	70%	69%	43-121%
92-94-4	p-Terphenyl	66%	60%	60%	30-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F67996
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30291-MS	OP88032.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
OP30291-MSD	OP88033.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287
F67996-11	OP88031.D	1	09/22/09	SL	09/18/09	OP30291	GOP2287

The QC reported here applies to the following samples: **Method:** FLORIDA-PRO

F67996-1, F67996-2, F67996-3, F67996-4, F67996-5, F67996-6, F67996-7, F67996-8, F67996-9, F67996-10, F67996-11, F67996-13, F67996-14, F67996-15, F67996-16, F67996-17

CAS No.	Compound	F67996-11 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	1.55		1.63	3.45	116*	2.95	86	16	54-110/28

CAS No.	Surrogate Recoveries	MS	MSD	F67996-11	Limits
84-15-1	o-Terphenyl	91%	79%	83%	38-122%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F67996
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP13610/GN36713	2.0	0.0	mg/l	50	50.3	100.6	90-110%
Fluoride	GP13610/GN36713	0.20	0.0	mg/l	2.5	2.54	101.6	90-110%
Nitrogen, Nitrate	GP13610/GN36713	0.10	0.0	mg/l	2.5	2.34	93.6	90-110%
Nitrogen, Nitrite	GP13610/GN36713	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Sulfate	GP13610/GN36713	2.0	0.0	mg/l	50	54.3	108.6	90-110%
Sulfide	GN36667	1.0	0.0	mg/l	13.4	13.2	98.3	76-112%
Total Carbon	GP13648/GN36789	1.0	0.0	mg/l	15	15.0	100.0	90-110%
Total Organic Carbon	GP13636/GN36773	1.0	0.0	mg/l	15	15.5	103.3	90-110%

Associated Samples:
Batch GN36667: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13610: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13636: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13648: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F67996
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP13610/GN36713	F67996-10	mg/l	3.8	3.8	0.0	0-20%
Fluoride	GP13610/GN36713	F67996-10	mg/l	0.10 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP13610/GN36779	F67996-10	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrite	GP13610/GN36713	F67996-10	mg/l	0.64	0.65	1.6	0-20%
Sulfate	GP13610/GN36713	F67996-10	mg/l	1.7	1.7	0.0	0-20%
Sulfide	GN36667	F67996-1	mg/l	0.60 U	0.0	123.0(a)	0-34%
Total Carbon	GP13648/GN36789	F68157-1	mg/l	31500	31300	0.6	0-20%
Total Organic Carbon	GP13636/GN36773	F67996-1	mg/l	36.5	36.6	0.3	0-20%

Associated Samples:
Batch GN36667: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13610: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13636: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13648: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F67996
Account: SIESNCR - Solutions-IES, Inc
Project: Cecil Field North Fuel Farm; Jacksonville, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP13610/GN36713	F67996-10	mg/l	3.8	50	52.6	97.6	90-110%
Fluoride	GP13610/GN36713	F67996-10	mg/l	0.10 U	2.5	2.1	84.0N(a)	90-110%
Nitrogen, Nitrate	GP13610/GN36713	F67996-10	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP13610/GN36713	F67996-10	mg/l	0.64	2.5	2.8	86.4N(a)	90-110%
Sulfate	GP13610/GN36713	F67996-10	mg/l	1.7	50	52.0	100.6	90-110%
Sulfide	GN36667	F67996-1	mg/l	0.60 U	9.26	8.8	93.4	76-112%
Total Carbon	GP13648/GN36789	F68157-1	mg/l	31500	15	27600	0.0(b)	90-110%
Total Organic Carbon	GP13636/GN36773	F67996-1	mg/l	36.5	15	45.9	62.7N(a)	90-110%

Associated Samples:
Batch GN36667: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13610: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13636: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
Batch GP13648: F67996-1, F67996-10, F67996-17, F67996-2, F67996-3, F67996-6, F67996-7, F67996-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

ACCUTEST.

Accutest JOB # F67996 PAGE 1 OF 2

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: JKeener@solutions-IES.com E-mail
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed): JB BC CD SJ EG

Project Information

Project Name: North Fuel Farm - Cecil Field
Street
City: Jacksonville State: FL
Project #: 8030
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC 8260B	PAH 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	Inorganic Carbon 415.2					LAB USE ONLY
1	CEF-076-61I	9/15/09	1125	JB	GW	15		X	X			X	X			X	X	X	X	X	X	X					
2	CEF-076-99D		1405	SJ		15		X	X			X	X						X	X	X	X					
3	CEF-076-57S		1235	SJ		15		X	X			X	X						X	X	X	X					
4	CEF-076-94S		1454	CD		7		X	X			X															
5	CEF-076-98D		0941	CD		7		X	X			X															
6	CEF-076-116D		1143	CD		15		X	X			X	X						X	X	X	X					
7	CEF-076-49S		0919	JB		15		X	X			X	X						X	X	X	X					
8	CEF-076-95S		1530	SJ		15		X	X			X	X						X	X	X	X					
9	CEF-076-93S		1547	CD		6		X	X			X															
10	CEF-076-117D		1053	BC		15		X	X			X	X						X	X	X	X					
11	CEF-076-113S		1209	BC		7		X	X			X															
12	trip Blank					2			X					X													

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Dan Mashey	9/16/09 1200	2 [illegible] 9/16/09 1700	3 [illegible]	9/18/09 1900	4 [illegible] Accutest 9/16/09 8:00
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 12 Cooler Temperature (s) Celsius: 2.0 2.8 3.2 3.8 4.0 3.0 3.2 2.4 4.2 5.0 4

Accutest Laboratories Southeast
Chain of Custody

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Accutest JOB # F67996 PAGE 2 OF 2

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Solutions- IES
Address: 1101 Dowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Jessica Keener E-mail: JKeener@solutions-ies.com
Phone#: (919) 454-7747
Sampler(s) Name(s) (Printed): JB/CD/BC/EG

Project Information

Project Name: North Fuel Farm - Cecil Field
Street:
City: Jacksonville State: FL
Project #: 8D30
Fax #:
Client Purchase Order #:

Analytical Information / **Matrix Codes**

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection: DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOCs 8260B	PAHs 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	Inorganic Carbon 415.2					LAB USE ONLY
13	CEF-076-110D	9/15/09	0932	BC	GW	7		X	X			X				X	X	X									
14	CEF-076-50I		1020	JB		7		X	X			X				X	X	X									
15	CEF-372-13R		0805	JB		7		X	X			X				X	X	X									
16	CEF-076-70I		1202	EG		7		X	X			X				X	X	X									
17	CEF-076-100D		0934	EG		15		X	X			X	X			X	X	X	X	X	X	X					

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	9/15/09 1700	2 [signature] 9/15/09 1700	3 [signature]	9/15/09 1900	4 [signature] Accutest 9/16/09 8:00
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 12 Cooler Temperature (s) Celsius: 2.0 2.8 3.2 3.8 4.0 3.0 3.2 2.4 4.2 5.0 4.8

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F67996 CLIENT: Solutions PROJECT: North fuel farm

DATE/TIME RECEIVED: 9/16/09 8:00 # OF COOLERS RECEIVED: 12 COOLER TEMPS: 2.0 2.8 3.2 3.8 4.0 3.0 3.2 2.4 4.2 5.0 4.8 4.6

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [x] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [x] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: recieved 3 trip Blanks 2 not on coc

Sample 10 recieved 1 set of 3 HCL vials without labels, vials were bagged together with the rest of the sample. Sample 9 only recieved 2 vials HCL

TECHNICIAN SIGNATURE/DATE [signature] 9/16/09 TECHNICIAN SIGNATURE/DATE [signature] 9-16-09

ASBD 12/17/07

APPENDIX B

GROUNDWATER SAMPLING LOGS

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-372-13R	**Sample ID:** CEF-372-13R	**Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE Teflon	4.01	Peristaltic Pump	1.5 to 11.5 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	7:49	8:04	0.7	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
7:53	0.2	0.2	150	4.11	7.05	26.90	335	4.40	19.2	117.3	clear	none
7:58	0.2	0.4	150	4.12	7.05	26.81	333	4.31	20.9	109.6	clear	none
8:03	0.2	0.6	150	4.12	7.03	26.95	330	4.20	19.4	108.0	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine INC	[signature]	8:05	8:30

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: no bolts

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-49S	**Sample ID:** CEF-076-49S **Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	4.15	Peristaltic Pump	45 to 50 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	9:02	9:18	0.8	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
9:07	0.3	0.3	200	4.45	2.87	25.82	2555	0.91	3.46	412.3	clear	none
9:12	0.2	0.5	200	4.45	2.86	25.91	2543	0.99	2.88	412.8	clear	none
9:17	0.2	0.7	200	4.45	2.87	25.71	2520	0.83	2.82	412.1	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine INC	[signature]	9:19	9:50

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
1	1	PE	500 mL	None	Sulfate 300.0	PP
2	2	AG	40 mL	HCL	TOC 415.1	PP
2	2	AG	40mL	None	Inorganic Carbon 415.2	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0.8

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-50I** | **Sample ID:** CEF-076-50 I | **Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	3.94'	Peristaltic Pump	75 to 80 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	9:58	10:18	0.9	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
10:00	0.1	~~0.01~~ 0.1	200	4.13	2.93	26.42	4066	0.92	4.92	399.2	clear	none
10:05	0.3	0.4	200	4.14	3.00	26.53	4033	0.60	3.90	380.3	clear	none
10:10	0.2	0.6	200	4.13	3.01	26.53	4007	0.62	2.69	370.4	clear	none
10:15	0.2	0.8	200	4.13	3.02	26.53	3995	0.57	2.94	364.8	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean/ Terraine INC	[signature]	10:20	10:35

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-57S	**Sample ID:** CEF-076-57S **Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	~~1 DPE~~ (Teflon)	3.42	Peristaltic Pump ✓	30 to 35 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
33'	1215	1233	0.40	200 ml/min

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1223	.15	.15	200	3.99	2.65	25.70	2870	0.58	2.04	423.1	Clear	None
1228	.10	.25	175	4.00	2.68	25.68	2823	0.54	1.80	420.1	Clear	None
1233	.10	.35	175	4.00	2.68	25.67	2812	0.52	1.60	417.2	Clear	None

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Smith Solutions-IES	[signature]	1235	1318

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: reduced flow 12:35 Sample Time

Field Kits: DO: 0.50 ~~Sulfide~~ ~~Sulfate~~

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-61I | **Sample ID:** CEF-076-61 I | **Date:** 9-15-07

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	7.09'	Peristaltic Pump	65 to 70 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	11:04	11:23	1.0	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
11:07	0.3	0.3	200	8.63	2.61	25.50	5834	1.61	38.9	320.4	clear	mild
11:12	0.2	0.5	150	8.85	2.73	25.38	5783	1.60	27.8	293.1	clear	none
11:17	0.2	0.7	150	8.93	2.74	25.28	5647	1.47	32.4	292.1	clear	none
11:22	0.2	0.9	150	9.00	2.77	25.33	5571	1.55	38.6	300.8	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jed Bean / Terraine INC	[signature]	11:25	

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0.8

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-70I** | **Sample ID:** CEF-076-70I | **Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	4.29	Peristaltic Pump	65 to 70 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
24 from bottom	1133	1202	0.6	50

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1142	0.1	0.1	50	4.40	2.80	28.37	7593	0.10	12.5	257.5	clear	—
1146	0.1	0.2	50	4.40	2.79	28.27	7606	0.11	11.7	261.4		
1150	0.1	0.3	50	4.40	2.79	28.31	7590	0.29	11.1	260.2		
1154	0.1	0.4	50	4.40	2.79	27.99	7616	0.22	11.0	245.6		
1158	0.1	0.5	50	4.40	2.79	27.95	7606	0.20	10.0	260.1		
1202	0.1	0.6	50	4.40	2.79	28.00	7607	0.21	10.4	256.4		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Elizabeth Geiger / Terraine Inc	Elizabeth C. Geiger	1202	1250

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	N/A µm	N/A	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: N/A

Field Kits: N/A

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-93S | **Sample ID:** CEF-076-93S | **Date:** 7/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE Teflon	5.91	Peristaltic Pump	25 to 30 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
24 of bottom	1455			200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1505	.20	.20	200	6.53	5.94	27.91	276	5.06	190	69.7	Brown	petroleum
1510	.30	.50	200	6.54	5.91	27.92	270	0.81	170	46.2	Brown	pet.
1515	.30	.80	200	6.54	5.90	27.96	267	0.46	130	26.7	clear	pet.
1520	.30	1.10	200	6.54	5.89	27.95	265	0.35	95	17.8	clear	pet.
1525	.30	1.40	200	6.54	5.88	27.98	263	0.29	85	0.7	clear	pet
1530	.30	1.70	200	6.54	5.88	27.99	260	0.22	95	-11.3	clear	pet
1535	.30	2.00	200	6.54	5.88	27.99	258	0.27	90	-18.9	brown clear	pet.
1540	.30	2.30	200	6.54	5.88	28.01	258	0.31	95	-19.5	brown	pet
1545	.30	2.60	200	6.55	5.88	28.04	259	0.21	90	-19.3	brown	pet.

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Christopher Dionne Solutions-IES	[signature]	1547	

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
2	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: Strong petroleum odors

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-94S | **Sample ID:** CEF-076-94S | **Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 2 3 4	1/4 3/8 1/2	LDPE Teflon	7.10	Peristaltic Pump	5 to 15 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2 ft off bottom	1350	1639	1.40	100

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1359	.10	.10	100	7.12	5.97	29.44	465	1.73	650	92.1	Red Orange	none
1404	.10	.20	100	7.12	5.88	29.07	435	0.66	270	68.0	Red Orange	none
1409	.10	.30	100	7.15	5.85	29.01	433	0.59	210	61.3	Red orange	none
1414	.10	.40	100	7.15	5.82	28.93	414	0.58	130	58.9	Red orange	none
1419	.10	.50	100	7.15	5.82	28.90	399	0.49	110	58.6	Clear	none
1424	.10	.60	100	7.15	5.81	29.12	387	0.42	95	57.2	clear	none
1429	.10	.70	100	7.15	5.80	29.12	387	0.44	59	57.2	clear	none
1434	.10	.80	100	7.15	5.78	28.94	375	0.37	37	58.1	clear	none
1439	.10	.90	100	7.15	5.78	28.89	373	0.35	29	58.0	clear	none
1444	.10	1.00	100	7.15	5.77	28.67	367	0.34	28	58.8	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Christopher Dionne Solutions-IES	[signature]	1454	1639

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-95S	**Sample ID:** CEF-076-95S	**Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	5.58	Peristaltic Pump	5 to 15 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
10'	1515	1530	55 ~~.65~~ .70	200 ml/min

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1520	.20	.20	200	6.00	5.97	26.06	140	1.10	33.1	14.8	Tea	Sulfur
1525	.20	.40	200	6.00	5.97	26.04	140	1.00	29.6	12.6	↓	↓
1530	.20	.60	200	6.00	5.97	26.02	141	0.95	28.4	12.1	↓	↓

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Sean Sprul - Solutions-IES	[signature]	1530	1615

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: 1530 sample time

Field Kits: DO: 0.80

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-98D | **Sample ID:** CEF-076-98D | **Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE Teflon	8.61	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2ft off bottom	857	1100	.55	100

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
912	.10	.10	100	10.79	3.31	26.35	7351	2.02	73.6	205.3	Lt yellow	none
917	~~.05~~ .05	~~.05~~ .15	100	11.14	3.36	26.54	7720	1.60	10.71	175.6	Lt yellow	slight
922	.05 ~~.05~~	~~.10~~ .20	100	11.26	3.39	26.77	8004	0.86	6.85	155.9	Lt yellow	slight
927	.05 ~~.05~~	~~.15~~ .25	100	11.50	3.39	27.04	8086	-0.02	3.18	148.9	Lt yellow	slight
935	.05 ~~.05~~	.30	100	11.62	3.39	27.16	8110	-0.01	2.53	149.8	Lt yellow	slight
937	.05	.35	100	11.87	3.39	27.24	8132	-0.01	3.66	148.6	Lt yellow	slight

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Christopher Brame Solutions-IES	[signature]	941	1100

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: Well draws down very quickly
Turned pump to as low as it can go before turning off

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-99D | **Sample ID:** CEF-076-99D | **Date:** 9-15-09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	7.55	Peristaltic Pump	95 to 100 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
97.5	1335	1405	1.0	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1340	.20	.20	200	8.75	6.42	30.44	2944	0.84	9.32	[illegible]	clear	none
1345	.20	.40	190	8.82	6.43	30.39	2943	0.64	8.61	-82.1		
1350	.15	.55	175	8.92	6.43	30.38	2948	0.53	7.21	-83.9		
1355	.15	.70	150	8.93	6.43	30.15	2943	0.45	6.12	-85.7		
1400	.10	.80	125	8.98	6.43	30.13	2945	0.40	4.98	-85.7		
1405	.10	.90	125	8.99	6.42	30.12	2945	0.38	3.98	-84.9		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
S.J. Solutions-ie	[signature]	1405	1508

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	— µm	—	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: reduced flow due to drop down

Field Kits: DO: 0.25

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-100D | **Sample ID:** CEF-076-100D | **Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	3.96	Peristaltic Pump	110 to 115 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2 ft off bottom	906	934	0.7	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
914	0.1	0.1	150	6.0	5.78	24.45	2812	0.73	42.7	-24.6	light brown	none
919	0.1	0.2	150	6.22	5.79	24.39	2778	0.73	26.9	-27.9	clear	
922	0.1	0.3	150	6.30	5.81	24.85	2758	0.69	22.0	-34.4		
925	0.1	0.4	150	6.28	5.82	25.13	2793	0.68	22.3	-33.3		
928	0.1	0.5	150	6.20	5.82	25.29	2801	0.67	19.4	-32.5		
931	0.1	0.6	150	6.20	5.82	25.41	2807	0.65	18.8	-28.2		
934	0.1	0.7	150	6.20	5.83	25.53	2809	0.65	18.0	-30.2		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Elizabeth Geiger / Terraire	Elizabeth R. Geiger	934	1050

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	N/A µm	N/A	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
2	2	AG	1 L	None	PAHs 8310	PP
2	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
3	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
1	1	PE	500 mL	None	Sulfate 300.0	PP
2	2	AG	40 mL	HCL	TOC 415.1	PP
2	2	AG	40mL	None	Inorganic Carbon 415.2 TIC	PP
3	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-110D**	**Sample ID:** CEF-076-110D	**Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	~~HDPE~~ (Teflon)	9.84	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	0903	0932	0.6	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
0923	0.3	0.3	200	11.29	2.79	25.35	6168	8.04	11.2	372.1	clear	—
0926	0.15	0.45	200	11.35	2.74	25.38	6211	8.07	10.1	373.6		
0929	0.1	0.55	150	11.40	2.73	25.42	6243	8.15	9.08	375.7		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey / Terraine	Burke Cathey	0932	1004

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-113S** **Sample ID:** CEF-076-113S	**Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	6.96	Peristaltic Pump	35 to 40 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1150	1209	0.5	150

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1200	0.2	0.2	150	6.99	3.12	26.79	2725	0.91	10.7	35.1	clear	HC
1203	0.1	0.3	150	6.99	3.11	26.72	2713	0.84	8.99	28.8		
1206	0.1	0.4	150	6.99	3.11	26.80	2716	0.79	8.14	25.6		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burla Cathey / Terraine	[signature]	1209	1239

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-117D**	**Sample ID:** CEF-076-117D **Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	8.87	Peristaltic Pump	feet to feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1031	1053	0.9	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1045	0.4	0.4	200	8.92	4.64	26.09	118	1.21	10.8	244.9	clear	—
1048	0.2	0.6	200	8.92	4.72	26.08	113	1.18	10.1	220.0		
1051	0.2	0.8	200	8.92	4.79	26.04	107	1.14	6.11	210.9		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot). **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey/Terraine	Burke Cathey	1053	1127

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 1.0

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes Hazardous Well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-116D	**Sample ID:** CEF-076-116D	**Date:** 9/15/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	LDPE Teflon	10.83	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2ft off bottom	1113	1226	1.40	200

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1122	.30	.30	200	10.94	3.22	~~40.02~~ 25.33	9275	0.55	0.00	155.0	Lt yellow	petroleum
1127	.20	.50	200	10.98	3.24	25.72	9252	1.56	0.60	162.8	Lt yellow	pet.
1132	.20	.70	200	10.98	3.16	25.99	9240	1.44	0.00	163.7	Lt yellow	pet.
1135	.20	.90	200	10.98	3.20	26.18	9277	1.38	1.2	164.6	Lt yellow	pet
1140	.20	1.10	200	10.98	3.24	26.13	9286	1.22	1.3	162.6	Lt yellow	pet

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Christopher Divine Solutions-IES	[signature]	1143	1226

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: Tubing already in well is 10ft down, no lock on stickup

Field Kits: DO: ~~[illegible]~~ 1

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

APPENDIX C

WEEKLY AS SYSTEM O&M LOGS

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 1:30pm
Date: JUNE 16, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	86	PSI
Air Compressor Temperature	191	°F	Air Compressor Run Hours	022921	Hours
Air Compressor Load Hours	022137	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 3/4 up	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	80	AD-13	(On) Off	20	70
AD-16	On (Off)	0	70	AD-17	(On) Off	20	60
AD-31	On (Off)	20	80	AD-34	(On) Off	20	70
AD-33	On (Off)	0	80	AS-30	(On) Off	7	80
AS-31	On (Off)	6	45	AS-37	(On) Off	0	40
AS-36	On (Off)	0	80	AS-40	(On) Off	0	90
AS-38	On (Off)	0	55	AS-42	(On) Off	20	50
AS-41	On (Off)	0	35	AD-11	(On) Off	20+	80
AD-08	On (Off)	0	90	AD-14	(On) Off	20	70
AD-09	On (Off)	0	70	AS-23	(On) Off	0	0
AD-10	On (Off)	0	65	AS-24	(On) Off	0	80
AS-17	On (Off)	0	80	AS-25	(On) Off	15	30
AS-18	On (Off)	2	70	BD-101	(On) Off	0	75
AS-44	On (Off)	0	55	BD-105	(On) Off	0	20
AS-45	On (Off)	0	80	BD-11	(On) Off	6	100
BD-05	On (Off)	1	40	BD-12	(On) Off	0	90
BD-06	On (Off)	1	80	BD-13	(On) Off	2	80
BD-102	On (Off)	0	35	BD-83	(On) Off	20+	85
BD-106	On (Off)	0	80	BD-90	(On) Off	12	75
BD-91	On (Off)	0	90	BD-96	(On) Off	0	80
BD-97	On (Off)	0	80	AD-19	(On) Off	20	80
AD-15	On (Off)	0	70	AD-20	(On) Off	20+	65
AD-18	On (Off)	0	70	AD-30	On (Off)	0	80
AS-29	On (Off)	0	80	AD-32	(On) Off	0	70
AS-32	On (Off)	2	70	AS-35	(On) Off	17	60
BD-100	On (Off)	0	80	AS-39	(On) Off	0	35
BD-19	On (Off)	0	70	AS-43	(On) Off	7	45
BD-20	On (Off)	20	75	BD-26	(On) Off	0	80
BD-21	On (Off)	0	100	BD-27	(On) Off	11	50
BD-82	On (Off)	0	70	BD-32	(On) Off	0	70
BD-89	On (Off)	0	80	BD-52	(On) Off	20	70
BD-94	On (Off)	0	80	BD-81	(On) Off	20	45
BD-95	On (Off)	1	80	BD-88	(On) Off	17	70

Comments:

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS-IES INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVES FROM TRAILER 8:55am
Date: JUNE 24, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	98	PSI
Air Compressor Temperature	183	°F	Air Compressor Run Hours	023109	Hours
Air Compressor Load Hours	022,324	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/2 UP	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	(On)	Off	0	75	AD-13	On	(Off)	0	90
AD-16	On	(Off)	20+	60	AD-17	On	(Off)	0	60
AD-31	(On)	Off	10	80	AD-34	On	(Off)	0	90
AD-33	(On)	Off	0	90	AS-30	On	(Off)	0	80
AS-31	(On)	Off	8	50	AS-37	On	(Off)	0	60
AS-36	(On)	Off	5	70	AS-40	On	(Off)	0	105
AS-38	(On)	Off	7	40	AS-42	On	(Off)	0	70
AS-41	(On)	Off	8	35	AD-11	On	(Off)	20+	90
AD-08	(On)	Off	0	95	AD-14	On	(Off)	0	90
AD-09	(On)	Off	2	60	AS-23	On	(Off)	0	0
AD-10	(On)	Off	20+	55	AS-24	On	(Off)	0	90
AS-17	(On)	Off	20+	90	AS-25	On	(Off)	0	58
AS-18	(On)	Off	7	60	BD-101	On	(Off)	0	80
AS-44	(On)	Off	0	40	BD-105	On	(Off)	0	20
AS-45	(On)	Off	0	90	BD-11	On	(Off)	7	115
BD-05	(On)	Off	20+	40	BD-12	On	(Off)	0	90
BD-06	(On)	Off	2	80	BD-13	On	(Off)	0	100
BD-102	(On)	Off	6	35	BD-83	On	(Off)	0	100
BD-106	(On)	Off	5	80	BD-90	On	(Off)	0	75
BD-91	(On)	Off	7	100	BD-96	On	(Off)	0	90
BD-97	(On)	Off	9	80	AD-19	On	(Off)	0	80
AD-15	(On)	Off	5	55	AD-20	On	(Off)	0	85
AD-18	(On)	Off	20+	60	AD-30	On	(Off)	0	90
AS-29	(On)	Off	0	90	AD-32	On	(Off)	0	20
AS-32	(On)	Off	0	85	AS-35	On	(Off)	0	90
BD-100	(On)	Off	12	90	AS-39	On	(Off)	0	50
BD-19	(On)	Off	0	65	AS-43	On	(Off)	0	60
BD-20	(On)	Off	20	65	BD-26	On	(Off)	0	95
BD-21	(On)	Off	12	115	BD-27	On	(Off)	0	50
BD-82	(On)	Off	0	90	BD-32	On	(Off)	0	70
BD-89	On	(Off)	8	80	BD-52	On	(Off)	0	90
BD-94	(On)	Off	11	85	BD-81	On	(Off)	0	50
BD-95	(On)	Off	0	80	BD-88	On	(Off)	0	60

Comments: SYSTEM OPERATING ON ARRIVAL. EMPTIED 5 GAL CONDENSATE JERRICAN.

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS-IES, INC
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHALO Time In: ARRIVED FROM TRAILER 10/25
Date: JUNE 29 2009 Time Out: _____

MAT RED!

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	80	PSI
Air Compressor Temperature	177	°F	Air Compressor Run Hours	023114	Hours
Air Compressor Load Hours	022330	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge	Green	(Red)

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	65	AD-13	(On) Off	20	70
AD-16	On (Off)	0	70	AD-17	(On) Off	20+	60
AD-31	On (Off)	0	70	AD-34	(On) Off	5	65
AD-33	On (Off)	0	70	AS-30	(On) Off	0	80
AS-31	On (Off)	0	50	AS-37	(On) Off	0	55
AS-36	On (Off)	0	70	AS-40	(On) Off	0	60
AS-38	On (Off)	0	50	AS-42	(On) Off	20	60
AS-41	On (Off)	0	35	AD-11	(On) Off	20+	70
AD-08	On (Off)	0	70	AD-14	(On) Off	20+	70
AD-09	On (Off)	0	70	AS-23	(On) Off	0	0
AD-10	On (Off)	0	70	AS-24	(On) Off	0	70
AS-17	On (Off)	0	70	AS-25	(On) Off	20+	50
AS-18	On (Off)	0	70	BD-101	(On) Off	0	65
AS-44	On (Off)	0	55	BD-105	(On) Off	20+	20
AS-45	On (Off)	0	70	BD-11	(On) Off	5	90
BD-05	On (Off)	0	40	BD-12	(On) Off	0	70
BD-06	On (Off)	0	55	BD-13	(On) Off	1	70
BD-102	On (Off)	0	35	BD-83	(On) Off	13	80
BD-106	On (Off)	0	70	BD-90	(On) Off	0	55
BD-91	On (Off)	0	80	BD-96	(On) Off	0	65
BD-97	On (Off)	0	65	AD-19	(On) Off	20+	50
AD-15	On (Off)	0	60	AD-20	(On) Off	0	65
AD-18	On (Off)	0	70	AD-30	(On) Off	5	70
AS-29	On (Off)	0	70	AD-32	(On) Off	0	60
AS-32	On (Off)	0	70	AS-35	(On) Off	20+	65
BD-100	On (Off)	0	65	AS-39	(On) Off	0	45
BD-19	On (Off)	0	70	AS-43	(On) Off	8	60
BD-20	On (Off)	20	65	BD-26	(On) Off	0	70
BD-21	On (Off)	0	90	BD-27	(On) Off	7	50
BD-82	On (Off)	0	70	BD-32	(On) Off	0	65
BD-89	On (Off)	0	70	BD-52	(On) Off	17	65
BD-94	On (Off)	0	80	BD-81	(On) Off	20+	50
BD-95	On (Off)	0	70	BD-88	(On) Off	11	70

NEEDED ABOUT 10 MINUTES TO OPEN THE SOLUTIONS LOCK AND ENTER THRU MAIN GATE BECAUSE PREVIOUS TENANTS LOCKS POSITIONED TO HAVE VIRTUALLY NO SLACK IN CHAIN. NEEDED HAMMER TO TAP SOLUTIONS LOCK PAST OTHER LOCKS. IF SOLUTIONS LOCK HASP WERE LONGER WOULD HELP. OTHER LOCKS SOMETIMES JUST PUT ON AND...

Comments: SYSTEM NOT OPERATING ON ARRIVAL. AFTER SOME SUBJECTIVE BUTTON PUSHING ON CONTROL PANEL, GOT SYSTEM ACTIVATED AND ON LOAD. OPENED 6 MANIFOLD ISOLATION VALVES. WAITED 20 MINUTES FOR SYSTEM PRESSURE TO BUILD AND STABILIZE BEFORE GAGE READING.

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS-IES
919 873-1060
FAX: 919 873-1074

NORTH FUL ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 11:40 AM
Date: JULY 7, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	91	PSI
Air Compressor Temperature	174	°F	Air Compressor Run Hours	023307	Hours
Air Compressor Load Hours	022522	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge	(Green)	Red	Air Tank Post-filter Gauge	Green	(Red)

½ INTO RED ZONE

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	(On)	Off	20+	80	AD-13	On	(Off)	0	80
AD-16	(On)	Off	20+	70	AD-17	On	(Off)	0	60
AD-31	(On)	Off	7	45	AD-34	On	(Off)	0	80
AD-33	(On)	Off	0	70	AS-30	On	(Off)	0	80
AS-31	(On)	Off	0	60	AS-37	On	(Off)	0	60
AS-36	(On)	Off	3	80	AS-40	On	(Off)	0	90
AS-38	(On)	Off	6	40	AS-42	On	(Off)	0	70
AS-41	(On)	Off	7	35	AD-11	On	(Off)	20+	80
AD-08	(On)	Off	0	75	AD-14	On	(Off)	0	80
AD-09	(On)	Off	8	80	AS-23	On	(Off)	0	0
AD-10	(On)	Off	20+	70	AS-24	On	(Off)	0	80
AS-17	(On)	Off	20+	80	AS-25	On	(Off)	0	55
AS-18	(On)	Off	7	80	BD-101	On	(Off)	0	80
AS-44	(On)	Off	0	40	BD-105	On	(Off)	0	20
AS-45	(On)	Off	0	80	BD-11	On	(Off)	8	110
BD-05	(On)	Off	20+	40	BD-12	On	(Off)	0	75
BD-06	(On)	Off	5	65	BD-13	On	(Off)	2	80
BD-102	(On)	Off	5	35	BD-83	On	(Off)	0	90
BD-106	(On)	Off	0	80	BD-90	On	(Off)	0	60
BD-91	(On)	Off	6	90	BD-96	On	(Off)	0	75
BD-97	(On)	Off	6	80	AD-19	On	(Off)	0	50
AD-15	(On)	Off	2	70	AD-20	On	(Off)	0	80
AD-18	(On)	Off	0	75	AD-30	On	(Off)	0	85
AS-29	(On)	Off	0	80	AD-32	On	(Off)	0	0
AS-32	(On)	Off	0	75	AS-35	On	(Off)	0	80
BD-100	(On)	Off	11	75	AS-39	On	(Off)	0	50
BD-19	(On)	Off	0	90	AS-43	On	(Off)	0	70
BD-20	(On)	Off	20	70	BD-26	On	(Off)	0	85
BD-21	(On)	Off	12	105	BD-27	On	(Off)	0	50
BD-82	(On)	Off	0	70	BD-32	On	(Off)	0	70
BD-89	(On)	Off	7	80	BD-52	On	(Off)	0	80
BD-94	(On)	Off	5	85	BD-81	On	(Off)	0	50
BD-95	(On)	Off	0	80	BD-88	On	(Off)	0	65

MAX

Comments:

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTION-IES
919 873-1060
FAX: 919 873-1074

JUL-07-09 01:26P P.02

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD SHARP Time In: 8:00 am
Date: JULY 15, 2009 Time Out: 9:30 am

Air Compressor

Air Compressor Status	(On) Off		Air Compressor Pressure	80	PSI
Air Compressor Temperature	175	°F	Air Compressor Run Hours	023475	Hours
Air Compressor Load Hours	022711	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAY	(Green) Red		Air Tank Post-filter Gauge	Green	(Red) — ½ INTO RED ZONE

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	70	AD-13	(On) Off	7*	65
AD-16	On (Off)	0	70	AD-17	(On) Off	8*	60
AD-31	On (Off)	0	80	AD-34	(On) Off	8	80
AD-33	On (Off)	0	70	AS-30	(On) Off	6	70
AS-31	On (Off)	0	55	AS-37	(On) Off	7*	50
AS-36	On (Off)	0	70	AS-40	(On) Off	2**	80
AS-38	On (Off)	0	55	AS-42	(On) Off	7*	55
AS-41	On (Off)	0	35	AD-11	(On) Off	20**	70
AD-08	On (Off)	0	70	AD-14	(On) Off	7*	70
AD-09	On (Off)	0	70	AS-23	(On) Off	2**	0
AD-10	On (Off)	0	65	AS-24	(On) Off	0**	70
AS-17	On (Off)	2	70	AS-25	(On) Off	7*	35
AS-18	On (Off)	2	70	BD-101	(On) Off	8*	80
AS-44	On (Off)	0	55	BD-105	(On) Off	8*	20
AS-45	On (Off)	0	70	[illegible]	(On) Off	7*	70
BD-05	On (Off)	11	40	BD-12	(On) Off	3**	75
BD-06	On (Off)	2	65	BD-13	(On) Off	5*	75
BD-102	On (Off)	0	35	BD-83	(On) Off	20***	90
BD-106	On (Off)	0	75	BD-90	(On) Off	10	60
BD-91	On (Off)	0	90	BD-96	(On) Off	8*	80
BD-97	On (Off)	0	80	AD-19	(On) Off	7*	50
AD-15	On (Off)	0	65	AD-20	(On) Off	8*	65
AD-18	On (Off)	0	80	AD-30	(On)	0	80
AS-29	On (Off)	1	70	AD-32	(On) Off	2**	0
AS-32	On (Off)	0	60	AS-35	(On) Off	7*	60
BD-100	On (Off)	0	75	AS-39	(On) Off	7*	40
BD-19	On (Off)	0	65	AS-43	(On) Off	11	50
BD-20	On (Off)	20	65	BD-26	(On) Off	0**	70
BD-21	On (Off)	0	90	BD-27	(On) Off	7	50
BD-82	On (Off)	0	80	BD-32	(On) Off	0**	70
BD-89	On (Off)	0	80	BD-52	(On) Off	7*	70
BD-94	On (Off)	0	80	BD-81	(On) Off	0**	50
BD-95	On (Off)	0	80	BD-88	(On) Off	8	80

Comments: Adjust flow rates for Bold wells to 5-10 scfm. *= ADJUSTED FLOW

The shaded wells may have flow meters that are stuck; tap meter with hammer to see if the needle moves. ** WILL NOT ADJUST

TO: MR BRIAN REBAR
SENIOR PROJECT MANAGER
SOLUTIONS-IES
919 873-1060
FAX 919 873-1074

PAGE 2 OF 2

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: 9:00 am ARRIVED FROM TRAILER
Date: JULY 21, 2009 Time Out:

Air Compressor

Air Compressor Status	On	Off	Air Compressor Pressure	92	PSI
Air Compressor Temperature	179	°F	Air Compressor Run Hours	023641	Hours
Air Compressor Load Hours	022856	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge	Green	Red	Air Tank Post-filter Gauge	Green	Red

MAY

1/3 INTO RED ZONE

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	On	Off	8*	85	AD-13	On	Off	0	85
AD-16	On	Off	8*	65	AD-17	On	Off	9	60
AD-31	On	Off	9	85	AD-34	On	Off	0	85
AD-33	On	Off	0**	75	AS-30	On	Off	0	90
AS-31	On	Off	8*	40	AS-37	On	Off	0	60
AS-36	On	Off	8*	85	AS-40	On	Off	0	100
AS-38	On	Off	8+	40	AS-42	On	Off	0	70
AS-41	On	Off	8*	35	AD-11	On	Off	20+	85
AD-08	On	Off	0**	90	AD-14	On	Off	0	90
AD-09	On	Off	8	85	AS-23	On	Off	0	0
AD-10	On	Off	8*	60	AS-24	On	Off	0	85
AS-17	On	Off	20+**	80	AS-25	On	Off	0	55
AS-18	On	Off	8*	85	BD-101	On	Off	0	85
AS-44	On	Off	8*	40	BD-105	On	Off	0	20
AS-45	On	Off	8*	90	BD-11	On	Off	6	110
BD-05	On	Off	15**	40	BD-12	On	Off	9	75
BD-06	On	Off	8+	70	BD-13	On	Off	2	90
BD-102	On	Off	25+**	35	BD-83	On	Off	20+	95
BD-106	On	Off	9	75	BD-90	On	Off	0	60
BD-91	On	Off	9	95	BD-96	On	Off	0	80
BD-97	On	Off	9	80	AD-19	On	Off	0	50
AD-15	On	Off	8*	60	AD-20	On	Off	0	90
AD-18	On	Off	9*	80	AD-30	On	Off	0**	90
AS-29	On	Off	0**	80	AD-32	On	Off	0	0
AS-32	On	Off	8*	80	AS-35	On	Off	12	80
BD-100	On	Off	9	75	AS-39	On	Off	0	50
BD-19	On	Off	0**	70	AS-43	On	Off	0	70
BD-20	On	Off	20+**	70	BD-26	On	Off	0	90
BD-21	On	Off	8*	110	BD-27	On	Off	0	50
BD-82	On	Off	0**	80	BD-32	On	Off	0	70
BD-89	On	Off	9	90	BD-52	On	Off	0	85
BD-94	On	Off	8	85	BD-81	On	Off	0	50
BD-95	On	Off	0**	90	BD-88	On	Off	0	80

Comments Adjust flow rates for Bold wells to 5-10 scfm. *=ADJUSTED **=WILL NOT ADJUST

The shaded wells may have flow meters that are stuck; tap meter with hammer to see if the needle moves.

A COPPER TUBE FITTING ON THE TOP OF THE TAN VALVE BOX BELOW THE KFS FILTERED SEPARATOR IN THE CONDENSATE LINE HAS A SUBSTANTIAL WATER LEAK. SEVERAL VALVES IN THE SYSTEM MANIFOLD LINES ADJACENT TO THE PRESSURE GAGES ARE LEAKING WATER. CONDENSATE PAIL EMPTIED INTO 55 GAL DRUM.

TO: MR BRIAN REBAR
SENIOR PROJECT MANAGER
SOLUTIONS - IES
919 873-1060
FAX: 919 873-1074

JUL-21-09 02:42P P.02

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SAAR Time In: ARRIVED FROM TRAILER 9:35am
Date: JULY 29, 2007 Time Out: _____

Air Compressor

Air Compressor Status	On	Off	Air Compressor Pressure	85	PSI
Air Compressor Temperature	181	°F	Air Compressor Run Hours	023833	Hours
Air Compressor Load Hours	023048	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge	Green	Red	Air Tank Post-filter Gauge	Green	Red ½ UP TO RED

MAX

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On Off	0	75	AD-13	On Off	8*	75
AD-16	On Off	0	70	AD-17	On Off	8*	60
AD-31	On Off	0	75	AD-34	On Off	8*	75
AD-33	On Off	13	75	AS-30	On Off	20+**	75
AS-31	On Off	0	55	AS-37	On Off	8*	45
AS-36	On Off	0	75	AS-40	On Off	0**	90
AS-38	On Off	0	55	AS-42	On Off	8*	55
AS-41	On Off	0	35	AD-11	On Off	20**	70
AD-08	On Off	0	80	AD-14	On Off	8*	75
AD-09	On Off	0	80	AS-23	On Off	0**	0
AD-10	On Off	0	70	AS-24	On Off	20**	75
AS-17	On Off	0	80	AS-25	On Off	8*	40
AS-18	On Off	0	75	BD-101	On Off	8*	75
AS-44	On Off	0	55	BD-105	On Off	8*	20
AS-45	On Off	0	80	BD-11	On Off	9*	100
BD-05	On Off	20+	40	BD-12	On Off	15**	75
BD-06	On Off	0	65	BD-13	On Off	2**	80
BD-102	On Off	0	35	BD-83	On Off	20+**	85
BD-106	On Off	0	70	BD-90	On Off	8*	60
BD-91	On Off	0	90	BD-96	On Off	8*	80
BD-97	On Off	0	80	AD-19	On Off	8*	50
AD-15	On Off	20+	70	AD-20	On Off	8*	70
AD-18	On Off	0	75	AD-30	On Off	20+**	80
AS-29	On Off	0	80	AD-32	On Off	0**	40
AS-32	On Off	0	70	AS-35	On Off	8*	75
BD-100	On Off	0	80	AS-39	On Off	8*	35
BD-19	On Off	0	70	AS-43	On Off	8*	50
BD-10	On Off	20+	75	BD-26	On Off	0*	80
BD-21	On Off	0	100	BD-27	On Off	8*	50
BD-82	On Off	0	80	BD-32	On Off	0*	70
BD-89	On Off	0	80	BD-52	On Off	8*	75
BD-94	On Off	0	85	BD-81	On Off	20+**	50
BD-95	On Off	0	80	BD-88	On Off	8*	80

Comments: Adjust flow rates for Bold wells to 5-10 scfm. * ADJUSTED ** WILL NOT ADJUST

The shaded wells may have flow meters that are stuck; tap meter with hammer to see if the needle moves.

TIGHTENED FITTING TO CORRECT LEAK REPORTED PREVIOUS WEEK INSPECTION. EMPTIED CONDENSATE/BARI-CAN, 2 55 GAL DRUMS WASTE WATER FILLED.

TO: MR BRIAN REDAR
SENIOR PROJECT MANAGER
SOLUTIONS-JES
919 873-1060
FAX: 919 873-1074

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: BMR Time In:
Date: 8/6/09 Time Out:

Starting at manifold 2, this is the order of the wells R to L

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	110/111	PSI
Air Compressor Temperature		°F	Air Compressor Run Hours		Hours
Air Compressor Load Hours	23159	Hours	Condensate Container Level	empty	Percent Full
Air Tank Pre-filter Gauge	(Green)	Red	Air Tank Post-filter Gauge	(Green)	Red

Sparge Well Manifolds

	Cycle 1 Wells (1800)	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)		Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	
18	AD-12	(On) Off	5	76		AD-13	(On) Off	5	78	18
20	AD-16	(On) Off	5	60		AD-17	(On) Off	5	70	20
23	AD-31	(On) Off	5	102		AD-34	(On) Off	5	80	25
24	AD-33	(On) Off	5	110		AS-30	(On) Off	5	105	8
8	AS-31	(On) Off	5	70		AS-37	(On) Off	5	70	10
6	AS-36	(On) Off	5	80		AS-40	(On) Off	2	118	9 will not increase
14	AS-38	(On) Off	5	70		AS-42	(On) Off	5	70	12
10	AS-41	(On) Off	5	70		AD-11	(On) Off	5	80	17
17	AD-08	(On) Off	0	108	will not adjust	AD-14	(On) Off	5	105	21
19	AD-09	(On) Off	5	60		AS-23	(On) Off	5	103	6
21	AD-10	(On) Off	5	60		AS-24	(On) Off	5	105	3
3	AS-17	(On) Off	5	105		AS-25	(On) Off	5	80	2
1	AS-18	(On) Off	5	70		BD-101	(On) Off	5	82	29
9	AS-44	(On) Off	5	58		BD-105	(On) Off	5	87	28
13	AS-45	(On) Off	5	106		BD-11	(On) Off	5	100	5
4	BD-05	(On) Off	Stuck on 13	103		BD-12	(On) Off	5	104	4
2	BD-06	(On) Off	5	105		BD-13	(On) Off	5	110	1
31	BD-102	(On) Off	5	96		BD-83	(On) Off	5	70	32
30	BD-106	(On) Off	5	70		BD-90	(On) Off	5	90	31
33	BD-91	(On) Off	5	120		BD-96	(On) Off	2	86	30 will not increase
32	BD-97	(On) Off	5	80		AD-19	(On) Off	5	102	19
16	AD-15	(On) Off	5	60		AD-20	(On) Off	5	75	22
22	AD-18	(On) Off	5	65		AD-30	(On) Off	5	107	23
5	AS-29	(On) Off	0	108	will not increase	AD-32	(On) Off	5	108	24
12	AS-32	(On) Off	5	100		AS-35	(On) Off	0-2	105	7 will not increase
29	BD-100	(On) Off	5	92		AS-39	(On) Off	5	70	16
7	BD-19	(On) Off	0	100	will not increase	AS-43	(On) Off	5	70	15
11	BD-20	(On) Off	5	100		BD-26	(On) Off	0	108	11 will not increase
15	BD-21	(On) Off	5	100		BD-27	(On) Off	5	84	14
25	BD-82	(On) Off	0	100	will not increase	BD-32	(On) Off	0	88	13 will not adjust
26	BD-89	(On) Off	5	82		BD-52	(On) Off	5	80	16
27	BD-94	(On) Off	5	103		BD-81	(On) Off	5	86	26
28	BD-95	(On) Off	5	80		BD-88	(On) Off	5	90	27

want adjustment 13

Comments: Cycle 2 is 110 psi 165°F
Cycle 1 is 111 psi 165°F

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 9:45 am
Date: AUGUST 12, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	106	PSI
Air Compressor Temperature	173	°F	Air Compressor Run Hours	024080	Hours
Air Compressor Load Hours	023295	Hours	Condensate Container Level	EMPTY! 0	Percent Full
Air Tank Pre-filter Gauge	MAX (Green)	Red	Air Tank Post-filter Gauge	MID LEVEL (Green)	Red

HUH! THAT'S [redacted] DIFFERENT

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	85	AD-13	(On) Off	5	70
AD-16	On (Off)	0	75	AD-17	(On) Off	5*	65
AD-31	On (Off)	0	100	AD-34	(On) Off	5*	75
AD-33	On (Off)	2	105	AS-30	(On) Off	5*	105
AS-31	On (Off)	2	70	AS-37	(On) Off	5*	70
AS-36	On (Off)	0	85	AS-40	(On) Off	2**	115
AS-38	On (Off)	2	85	AS-42	(On) Off	5	60
AS-41	On (Off)	0	80	AD-11	(On) Off	5*	75
AD-08	On (Off)	0	105	AD-14	(On) Off	5*	70
AD-09	On (Off)	0	80	AS-23	(On) Off	5*	100
AD-10	On (Off)	0	75	AS-24	(On) Off	5*	105
AS-17	On (Off)	0	105	AS-25	(On) Off	5*	70
AS-18	On (Off)	2	75	BD-101	(On) Off	5*	70
AS-44	On (Off)	2	60	BD-105	(On) Off	5*	80
AS-45	On (Off)	2	105	BD-11	(On) Off	5*	95
BD-05	On (Off)	2	105	BD-12	(On) Off	5*	105
BD-06	On (Off)	2	100	BD-13	(On) Off	5	110
BD-102	On (Off)	2	95	BD-83	(On) Off	5*	65
BD-106	On (Off)	2	75	BD-90	(On) Off	5*	90
BD-91	On (Off)	0	115	BD-96	(On) Off	2**	80
BD-97	On (Off)	0	90	AD-19	(On) Off	5	100
AD-15	On (Off)	0	80	AD-20	(On) Off	5*	70
AD-18	On (Off)	0	80	AD-30	(On) Off	5*	105
AS-29	On (Off)	0	100	AD-32	(On) Off	2**	50
AS-32	On (Off)	0	95	AS-35	(On) Off	5*	100
BD-100	On (Off)	0	90	AS-39	(On) Off	5	60
BD-19	On (Off)	0	100	AS-43	(On) Off	5*	65
BD-20	On (Off)	0	100	BD-26	(On) Off	0**	100
BD-21	On (Off)	0	100	BD-27	(On) Off	5*	80
BD-82	On (Off)	0	105	BD-32	(On) Off	0**	90
BD-89	On (Off)	0	95	BD-52	(On) Off	5*	70
BD-94	On (Off)	0	100	BD-81	(On) Off	5*	80
BD-95	On (Off)	2	85	BD-88	(On) Off	5*	90

SIGNIFICANT AIR FLOW ESCAPING FLOW VALVE VENT NEXT TO PRESSURE GAGE. ALSO AD-05

MODERATE AIR VENTING FROM VALVE VENT NEXT TO PRESSURE GAGE.

Comments: Adjust flow rates for Bold wells to 5-10 scfm * ADJUSTED ** WILL NOT ADJUST

The shaded wells may have flow meters that are stuck; tap meter with hammer to see if the needle moves.

[redacted]

TO: MR BRIAN REBAR
SENIOR PROJECT MANAGER
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PAGE 2 OF 2

Aug-12-09 11:35A P.02

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 9:30am
Date: AUGUST 18, 2009 Time Out:

Air Compressor

Air Compressor Status	On	Off	Air Compressor Pressure	105	PSI
Air Compressor Temperature	166	°F	Air Compressor Run Hours	024224	Hours
Air Compressor Load Hours	023439	Hours	Condensate Container Level	0	Percent Full
Air Tank Pre-filter Gauge MAX	Green	Red	Air Tank Post-filter Gauge ½ UP	Green	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On Off	0	85	AD-13	On Off	5	75
AD-16	On Off	0	75	AD-17	On Off	5	65
AD-31	On Off	0	100	AD-34	On Off	6	75
AD-33	On Off	2	105	AS-30	On Off	5	105
AS-31	On Off	2	70	AS-37	On Off	5	70
AS 36	On Off	0	85	AS-40	On Off	2**	115
AS-38	On Off	0	90	AS-42	On Off	5*	65
AS 41	On Off	0	80	AD-11	On Off	5*	75
AD-08	On Off	0	105	AD-14	On Off	5*	70
AD-09	On Off	0	80	AS-23	On Off	5	100
AD-10	On Off	0	75	AS-24	On Off	5	100
AS-17	On Off	0	100	AS-25	On Off	5*	75
AS-18	On Off	2	70	BD-101	On Off	6	75
AS-44	On Off	0	70	BD-105	On Off	5*	80
AS-45	On Off	1	105	BD-11	On Off	5*	95
BD-05	On Off	10	100	BD-12	On Off	5*	100
BD-06	On Off	2	100	BD-13	On Off	2**	110
BD-102	On Off	2	95	BD-83	On Off	5*	70
BD-106	On Off	2	100	BD-90	On Off	5*	90
BD-91	On Off	2	110	BD-96	On Off	2**	80
BD-97	On Off	2	90	AD-19	On Off	5	100
AD-15	On Off	0	75	AD-20	On Off	5*	70
AD-18	On Off	0	80	AD-30	On Off	5*	105
AS-29	On Off	0	100	AD-32	On Off	2**	45
AS-32	On Off	1	95	AS-35	On Off	5	100
BD-100	On Off	2	90	AS-39	On Off	6	65
BD-19	On Off	0	100	AS-43	On Off	5	65
BD-20	On Off	2	95	BD-26	On Off	0**	100
BD-21	On Off	1	100	BD-27	On Off	5	80
BD-82	On Off	0	100	BD-32	On Off	0**	90
BD-89	On Off	2	95	BD-52	On Off	5	75
BD-94	On Off	0	95	BD-81	On Off	0**	80
BD-95	On Off	2	80	BD-88	On Off	5	90

HIGH VOLUME AIR FROM VENT HOLE

SMALL VOLUME AIR FROM VENT HOLE

HIGH VOLUME AIR FROM VENT HOLE

SMALL VOLUME AIR FROM VENT HOLE

HIGH VOLUME AIR FLOW ESCAPING FROM VENT HOLE ON GAGE FITTING

SMALL AIR VOLUME ESCAPING FROM VENT HOLE

Comments: Adjust flow rates for Bold wells to 5-10 scfm. * ADJUSTED ** WILL NOT ADJUST

The shaded wells may have flow meters that are stuck; tap meter with hammer to see if the needle moves.

HIGH VOLUME AIR FROM VENT HOLE BS-13, BD-22

TO: MR BRIAN REBAR
SENIOR PROJECT MANAGER
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PAGE 2 OF 2

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 10:10 am
Date: AUGUST 26, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	106	PSI
Air Compressor Temperature	174°F	°F	Air Compressor Run Hours	024416	Hours
Air Compressor Load Hours	023631	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge ½ up	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
▲ AS-18	On (Off)	2	70	▲ BD-13	(On) Off	3**	110
▲ BD-06	On (Off)	2	100	AS-25	(On) Off	5*	70
▲ AS-17	On (Off)	0	100	▲ AS-24	(On) Off	5*	100
▲ BD-05	On (Off)	10	100	BD-12	(On) Off	5*	100
AS-29	On (Off)	2	100	BD-11	(On) Off	5*	90
AS-36	On (Off)	0	85	▲ AS-23	(On) Off	5	100
BD-19	On (Off)	0	100	▲ AS-35	(On) Off	5*	95
AS-31	On (Off)	3	70	AS-30	(On) Off	5*	100
AS-44	On (Off)	5	60	▲ AS-40	(On) Off	2**	110
AS-41	On (Off)	2	65	AS-37	(On) Off	5*	70
BD-20	On (Off)	2	100	BD-26	(On) Off	2**	100
AS-32	On (Off)	0	95	AS-42	(On) Off	5*	60
AS-45	On (Off)	1	100	BD-32	(On) Off	0**	90
AS-38	On (Off)	0	85	BD-27	(On) Off	5*	80
BD-21	On (Off)	0	100	AS-43	(On) Off	5	65
AD-15	On (Off)	0	70	AS-39	(On) Off	5	60
AD-08	On (Off)	0	105	BD-52	(On) Off	5	70
AD-12	On (Off)	0	80	AD-11	(On) Off	5*	75
AD-09	On (Off)	0	80	AD-13	(On) Off	5*	70
AD-16	On (Off)	0	70	▲ AD-19	(On) Off	5*	100
AD-10	On (Off)	0	75	AD-17	(On) Off	5	65
AD-18	On (Off)	0	80	AD-14	(On) Off	5*	55
AD-31	On (Off)	0	100	AD-20	(On) Off	5	70
AD-33	On (Off)	2	105	▲ AD-30	(On) Off	5*	100
BD-82	On (Off)	0	100	▲ AD-32	(On) Off	1**	50
BD-89	On (Off)	0	95	AD-34	(On) Off	5	70
BD-94	On (Off)	0	95	BD-81	(On) Off	0**	70
BD-95	On (Off)	5	75	BD-88	(On) Off	5*	90
▲ BD-100	On (Off)	2	90	BD-105	(On) Off	5	80
BD-106	On (Off)	1	80	BD-101	(On) Off	5*	70
BD-102	On (Off)	2	95	BD-96	(On) Off	2	75
BD-97	On (Off)	1	90	▲ BD-90	(On) Off	5	90
BD-91	On (Off)	2	110	BD-83	(On) Off	5	70

A2-16 ▲
B5-11 ▲
B5-13 ▲
BD-22 ▲

Comments: * ADJUSTED ** WILL NOT ADJUST
▲ = HP AIR ESCAPING FROM VENT HOLE ON GAGE SHUT-OFF VALVE.
SMALL LEAK AT FITTING - CONDENSATE LINE BETWEEN
AQUAMATE AND PIPE INSTALLED ON PAD.

TO: MR BRIAN REBAR
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FAX: 919 873-1074

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP
Date: AUGUST 31, 2009

Time In: 8:15AM DEPART OFFICE
Time Out: RETURNED OFFICE 11:45AM

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	105	PSI
Air Compressor Temperature	174	°F	Air Compressor Run Hours	024535	Hours
Air Compressor Load Hours	023751	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge	MAX (Green)	Red	Air Tank Post-filter Gauge	1/2 UP (Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
▲ AS-18	On (Off)	2	70	▲ BD-13	(On) Off	2**	110
▲ BD-06	On (Off)	2	100	AS-25	(On) Off	5*	70
▲ AS-17	On (Off)	0	100	▲ AS-24	(On) Off	5*	100
▲ BD-05	On (Off)	2	100	▲ BD-12	(On) Off	5*	100
AS-29	On (Off)	0	90	BD-11	(On) Off	5*	90
AS-36	On (Off)	0	85	▲ AS-23	(On) Off	5	100
BD-19	On (Off)	0	100	▲ AS-35	(On) Off	5*	95
AS-31	On (Off)	2	70	AS-30	(On) Off	5	100
AS-44	On (Off)	5	60	▲ AS-40	(On) Off	2**	110
AS-41	On (Off)	1	70	AS-37	(On) Off	5*	65
BD-20	On (Off)	2	100	BD-26	(On) Off	0**	100
AS-32	On (Off)	2	90	AS-42	(On) Off	5	60
AS-45	On (Off)	0	100	BD-32	(On) Off	0**	90
AS-38	On (Off)	0	90	BD-27	(On) Off	6*	80
BD-21	On (Off)	2	70	AS-43	(On) Off	5*	65
AD-15	On (Off)	0	100	AS-39	(On) Off	5*	65
AD-08	On (Off)	0	100	BD-52	(On) Off	5	70
AD-12	On (Off)	0	85	AD-11	(On) Off	5	75
AD-09	On (Off)	0	80	AD-13	(On) Off	5*	75
AD-16	On (Off)	0	70	▲ AD-19	(On) Off	5	100
AD-10	On (Off)	0	80	AD-17	(On) Off	5	65
AD-18	On (Off)	2	80	AD-14	(On) Off	5	60
AD-31	On (Off)	0	100	AD-20	(On) Off	5*	75
AD-33	On (Off)	2	105	▲ AD-30	(On) Off	5	100
BD-82	On (Off)	0	100	▲ AD-32	(On) Off	2**	45
BD-89	On (Off)	0	95	AD-34	(On) Off	5*	70
BD-94	On (Off)	0	100	BD-81	(On) Off	0**	70
BD-95	On (Off)	5	80	BD-88	(On) Off	5*	70
▲ BD-100	On (Off)	1	90	BD-105	(On) Off	5	80
BD-106	On (Off)	2	80	BD-101	(On) Off	5*	75
BD-102	On (Off)	2	95	BD-96	(On) Off	2**	80
BD-97	On (Off)	2	85	▲ BD-90	(On) Off	5	90
BD-91	On (Off)	1	110	BD-83	(On) Off	5*	70

▲ AS-16
BS-11
BS-13
BS-18
BD-22

Comments: ▲ AIR ESCAPING FROM VENT HOLE ON GAGE SHUT OFF VALVE
*ADJUSTED ** WOULD NOT ADJUST. EMPTIED CONDENSATE JERRICAN. SHUT DOWN SYSTEM AFTER INSPECTION PER DIRECTION.

TO: MR BRIAN REBAR
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