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NAS CECIL FIELD, FL
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2008 ANNUAL LONG TERM MONITORING REPORT FOR JET ENGINE TEST CELL NAS CECIL FIELD FL

4/15/2009

SOLUTIONS-IES INC

2008 ANNUAL
LONG-TERM MONITORING REPORT

JETC
NAS CECIL FIELD
JACKSONVILLE, FL

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

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APRIL 15, 2009

Solutions-IES
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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.

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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 services at the Jet Engine Test Cell (JETC) 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 performs quarterly groundwater monitoring. This Annual Monitoring Report summarizes the activities performed at the site from October through December 2008. Data for the fourth quarter 2008 sampling event, conducted in December 2008, are presented in detail. Additional information from the October 2008 sampling event has been provided in a previously submitted quarterly monitoring report.

1.1 SITE LOCATION AND DESCRIPTION

The JETC site was formerly used by the Navy to test jet engines. The buildings on the site are currently used by a private company for the same purpose. Two underground storage tanks (USTs), two above ground storage tanks (ASTs) and three oil water separators (OWSs) were located on the JETC site. The JETC site is located on the east side of the intersection of Flightline Road (formerly Jet Road) and Cecil Pines Street (formerly 9th Street) at NAS Cecil Field in the vicinity of Buildings 328, 334, 339 and 811. A site location map is included as **Figure 1**.

1.2 SITE HISTORY

Environmental investigations began in 1989 at JETC as a result of leaks and reported overfilling spills at two 20,000-gallon JP-5 USTs (339-TC1 and 339-TC2) which were located in the fuel tank yard between Buildings 811 and 339. Petroleum impacted soil was identified in 1990 as part of a preliminary Contamination Assessment (CA). A comprehensive CA was conducted between 1991 and 1994. Free product, soil and groundwater contamination associated with the two USTs were identified and delineated at that time.

Additional tanks located at the site included, one 5,000-gallon JP-5 AST (339-TC3), located within a 3-foot tall concrete containment wall on the eastern portion of the tank yard, and a 940-gallon 10W engine oil AST (334P) located within a rubber containment structure on a concrete pad on the north side of Building 334. Two of the OWSs (325-OW and 334-OW) were located at Building 334 and one, 339-

OW, was located at Building 339. Additional soil contamination was identified at 334-OW. Soil excavation was conducted to address this contamination in 1999, though not all contaminated soil was removed.

The Florida Department of Environmental Protection (FDEP) approved a Groundwater Monitoring Only Plan for Natural Attenuation (NA) in May 1999 for the JETC site. Quarterly groundwater sampling was conducted from July 1997 through October 2000. Based on results obtained during these events, it was determined that additional delineation of the groundwater contamination was required.

Subsequent groundwater investigation activities were conducted in 2001 to further delineate the extent of groundwater contamination. At that time, it was discovered that contaminated soil remained in the vicinity of the OWSs. A Remedial Action Plan (RAP) was prepared and submitted to the FDEP in September 2002. An addendum was prepared and submitted in January 2003 to recommend air sparging (AS) and soil excavation as appropriate remedial alternatives. FDEP approval was received in February 2003. Operation of the AS system commenced on November 24, 2003 and the system was shut down in April 2007.

2.0 GROUNDWATER MONITORING SUMMARY

At this time, there are 10 monitoring wells included in the long-term monitoring plan for this site (**Figure 2**). They are screened at depths ranging between approximately 78 and 80 feet below ground surface (ft bgs). Each monitoring well is generally sampled on a quarterly basis in March, June, September and December. The third quarter 2008 sampling event was conducted in October 2008.

During each quarterly monitoring event, 15 water levels were recorded. Samples were collected from 10 of these monitoring wells for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX); methyl-*tert*-butyl-ether (MTBE); polycyclic aromatic hydrocarbons (PAHs); total recoverable petroleum hydrocarbons (TRPH); NA parameters and field parameters as detailed in the following tables. Locations of the wells at this site are illustrated on **Figure 2**.

Analysis	**Constituents**	**Analytical Method**
VOCs	BTEX & MTBE	8021B
PAHs	16 listed 1-methylnaphthalene 2-methylnaphthalene	8270C-SIM

Analysis	Constituents	Analytical Method
TRPH		FL-PRO
NA Parameters	Dissolved Oxygen	CHEMetrics® Kit
Field Parameters	Temperature pH Conductivity Oxidation Reduction Potential Turbidity	Direct-reading meter

Monitoring Well	Parameters
NG-24S	BTEX, MTBE, PAHs, TRPH and NA
CEF-334-32S	
CEF-334-33S	
CEF-334-02SA	
CEF-811-18S	
CEF-334-34S	
CEF-811-17S	
CEF-811-16SR	
CEF-339-29S	
CEF-339-28S	

2.1 MONITORING WELL OBSERVATIONS

The integrity of the monitoring wells included in the long-term monitoring plan was evaluated during each sampling event. The field team noted no extensive damage (i.e., the need for well replacement or repair) to the wells during the 2008 events. However, an obstruction was observed in CEF-334-06S during the December 2008 sampling event. A water level measurement was recorded from this well. Additionally, the well tag for CEF-334-34S indicates that the well ID is CEF-811-34S.

2.2 WATER LEVEL MEASUREMENTS

Water level measurements were recorded quarterly at 15 wells. The top-of-casing elevations, depth-to-water, and calculated water level elevations are provided in **Table 1**. A groundwater contour map generated using the groundwater elevations measured during the December 2008 event is included as **Figure 3**. According to water level measurements obtained on December 16, 2008, groundwater flows towards the south at the site. This groundwater flow direction is consistent with those determined from the previous 2008 sampling events.

2.3 GROUNDWATER SAMPLING

2.3.1 Methodology

Groundwater sampling was conducted at the JETC site on a quarterly basis in March, June, October and December 2008. Ten monitoring wells (CEF-334-02SA, CEF-334-32S, CEF-334-33S, CEF-334-34S, CEF-339-28S, CEF-339-29S, CEF-811-16SR, CEF-811-17S, CEF-811-18S and NG-24S) were purged and sampled using low-flow methodology.

Wells were purged immediately before sampling using a low flow peristaltic pump, at an approximate 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) readings were also recorded during purging. Samples were collected for field analysis of DO using CHEMetrics® field test kits.

Groundwater sampling was conducted in general accordance with applicable state and local guidelines, and the Solutions-IES Work Plan (SIES, 2008). All samples collected were stored on ice and delivered to Accutest Laboratory, a Florida-certified and National Environmental Laboratory Accreditation Program (NELAP) certified laboratory located in Orlando, Florida, via courier, under chain-of-custody procedures.

Results of the field measurements are summarized in **Table 2**. Copies of the groundwater sampling logs including all field parameter measurements are provided in **Appendix A**.

2.3.2 Laboratory Analyses

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

- BTEX and MTBE by EPA Method 8021B
- PAHs by EPA Method 8270C-SIM
- TRPH by FL-PRO

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

2.4 INVESTIGATION DERIVED WASTE (IDW)

Purge, wash and rinse water was collected in 5-gallon containers and transferred to a labeled 55-gallon drum (Drum ID SIES1208-003). The drum was staged in the IDW Storage Building (Building 536). The NAS Jacksonville Public Works Department (PWD-JAX) was notified on December 16, 2008 that the drum was being kept in the building. The non-hazardous data package for disposal was forwarded to PWD-JAX on January 22, 2009.

3.0 SAMPLING AND ANALYTICAL RESULTS

3.1 DATA VALIDATION

Accutest data analysts validated the data according to laboratory standard operating procedures (SOPs). None of the data were rejected as a result of the data validation. However, as indicated in the laboratory case narrative, the blank spike recovery, matrix spike recovery and matrix spike duplicate recovery reported several VOCs outside of the control limits. The probable cause is attributed to matrix interference. The validation also resulted in several data qualifiers. These are shown with the analyte concentrations in **Table 3**.

A limited data review was also performed by Solutions-IES. The data validation evaluated data completeness, holding time compliance, laboratory blank contamination and detection limits. No additional issues were identified.

3.2 NATURAL ATTENUATION PARAMETERS

As part of each 2008 quarterly sampling event, groundwater samples were analyzed in the field for DO. In addition, field parameters including temperature, pH, conductivity, turbidity, and ORP were measured and recorded during well purging. The results of the field measurements are summarized in **Table 2**.

Field measurements indicate that DO concentrations at the JETC site are relatively low with most of the wells exhibiting values between 0.0 to 1 mg/L in December 2008. Monitoring well CEF-334-32S had a slightly higher DO concentration of 2 mg/L. DO measurements were collected with a DO meter and a flow through cell while purging and confirmed with a CHEMetrics® field kit at the time of sample

collection. The values recorded in December are lower than the values recorded during the October 2008 sampling event. The low values suggest that the groundwater at the site is probably anaerobic.

ORP is a measure of electron activity of the groundwater. Positive ORP values indicate that an oxidative environment exists in the aquifer and negative ORP values indicate a reducing environment. The ORP measurements collected at the site range from -191 to 125 millivolts (mV). The values recorded during the October 2008 are significantly different in some wells than the values recorded during December 2008. The variability is probably not related to changes in the groundwater geochemistry.

The pH measured at the site in December 2008 generally ranges from 5.32 to 7.06. In some wells, the value recorded during December 2008 is significantly different than the value recorded in October 2008. A review of the historical data for field and NA parameters shows that the values have varied greatly at this site since monitoring began.

3.3 GROUNDWATER RESULTS

Results from the 2008 quarterly sampling events, along with historical sampling results can be found in **Table 3**. The December 2008 laboratory analytical report is included in **Appendix B**. Locations and constituent concentrations in excess of the regulatory limits during the last four quarters of sampling are shown on **Figure 4**.

Analysis of samples collected from eight wells showed levels of constituents of concern above the laboratory reporting limit during the December 2008 sampling event. These included wells CEF-334-02SA, CEF-334-32S, CEF-334-34S, CEF-339-28S, CEF-339-29S, CEF-811-16SR, CEF-811-17S, and CEF-811-18S. Monitor wells CEF-334-34S and CEF-811-18S were the only wells with constituents reported at levels above the Groundwater Clean-up Target Levels (GCTLs).

TRPH exceeded the GCTL of 5,000 µg/L in both monitoring well CEF-334-34S (6,720 µg/L) and CEF-811-18S (7,180 µg/L). This is the first sampling event that an exceedance above the GCTL of TRPH has been observed in CEF-811-18S and the second consecutive exceedance in CEF-334-34S. Naphthalene also exceeded its GCTL (14 µg/L) in monitoring well CEF-811-18S for the first time since 2006 with a reported concentration of 53.8 µg/L. Trends in concentrations over time in monitoring well CEF-811-18S are shown in **Figure 5**. No other reported constituents exceeded their respective GCTLs during December 2008.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Water level data suggests that groundwater at this site flows generally toward the south. In general, the concentrations of constituents of concern remained unchanged from October to December 2008. However, monitoring well CEF-811-18S showed an increase in concentrations for most of the constituents and had concentrations of TRPH and naphthalene in excess of the GCTL. Several exceedances noted during October 2008 in monitoring well CEF-334-34S, including naphthalene, 1- methylnaphthalene and 2-methylnaphthalene, were not confirmed during the December sampling event.

TRPH values are increasing in many of the on-site wells when compared with historical data. TRPH was detected in monitoring well CEF-811-16SR and CEF-811-17S for the first time since 2004 and 2001, respectively. The concentrations in these wells remain below the GCTL.

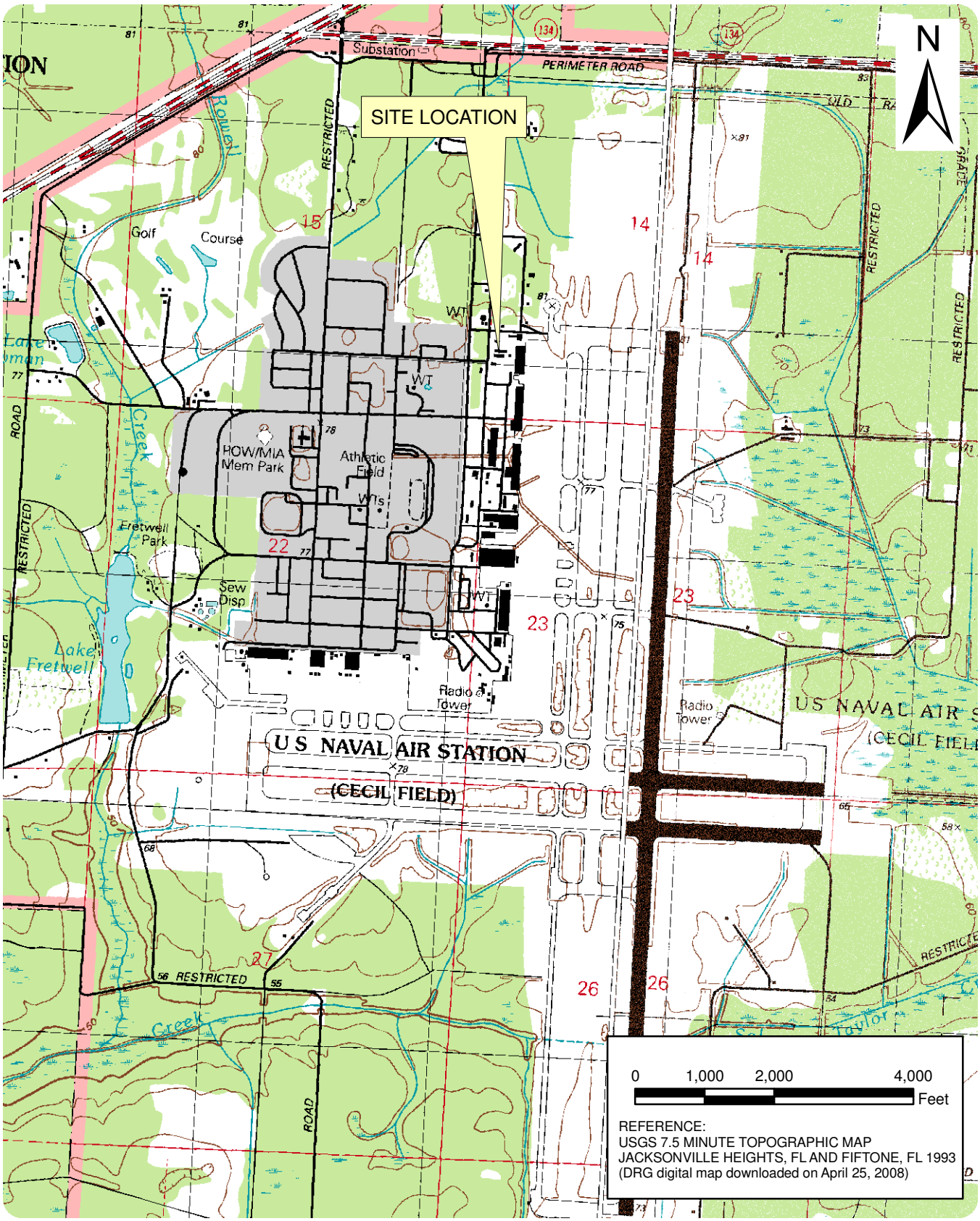
No changes have been made to the monitoring plan since Solutions-IES was awarded this contract in August 2008. The December 2008 sampling was conducted in general accordance previous sampling events and the scope of work provided to Solutions-IES upon contract award. Solutions-IES will recommends continuing with the quarterly water level measurements and groundwater sampling at this site.

5.0 REFERENCES

ESA Environmental Specialists. *Option Year 1, Third Quarter 2006-2007Operations and Maintenance Status Report.*. February 2007.

Solutions-IES, Inc. 2008. *Work Plan-Long Term Monitoring and Operation & Maintenance,* Former Naval Air Station Cecil Field, Jacksonville, Florida. September 2008.

FIGURES



PROJECT NUMBER 8030.08A2.NAVF

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CHECKED BY JD

PROJECT MANAGER BR

DATE 11/07/08

FILE JETC.mxd

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SITE LOCATION MAP
JETC - NAS CECIL FIELD
JACKSONVILLE, FL

FIGURE:

1

FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
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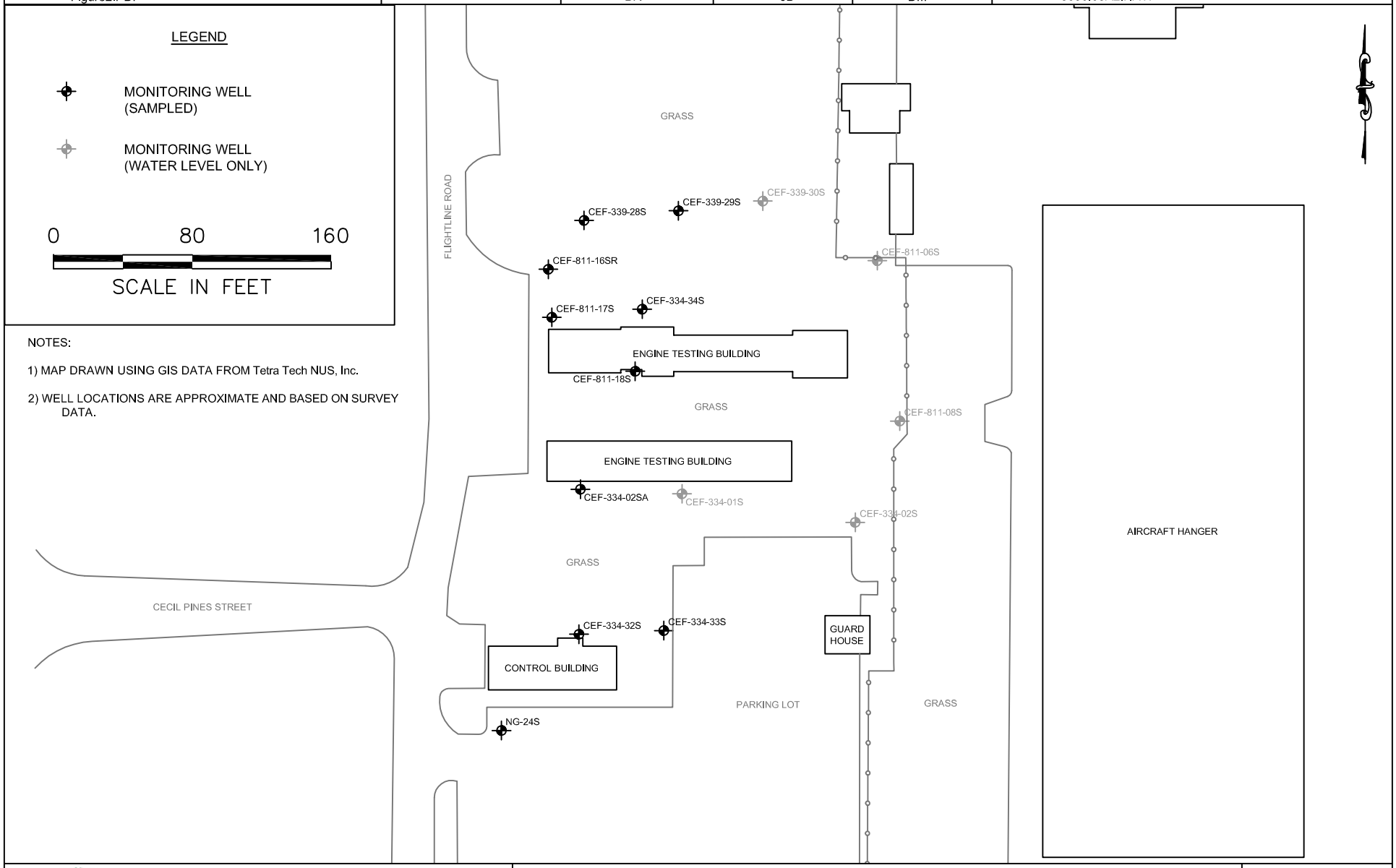

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WELL LOCATION MAP
JETC - NAS CECIL FIELD
JACKSONVILLE, FL
OCTOBER 2008

FIGURE:

2

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FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
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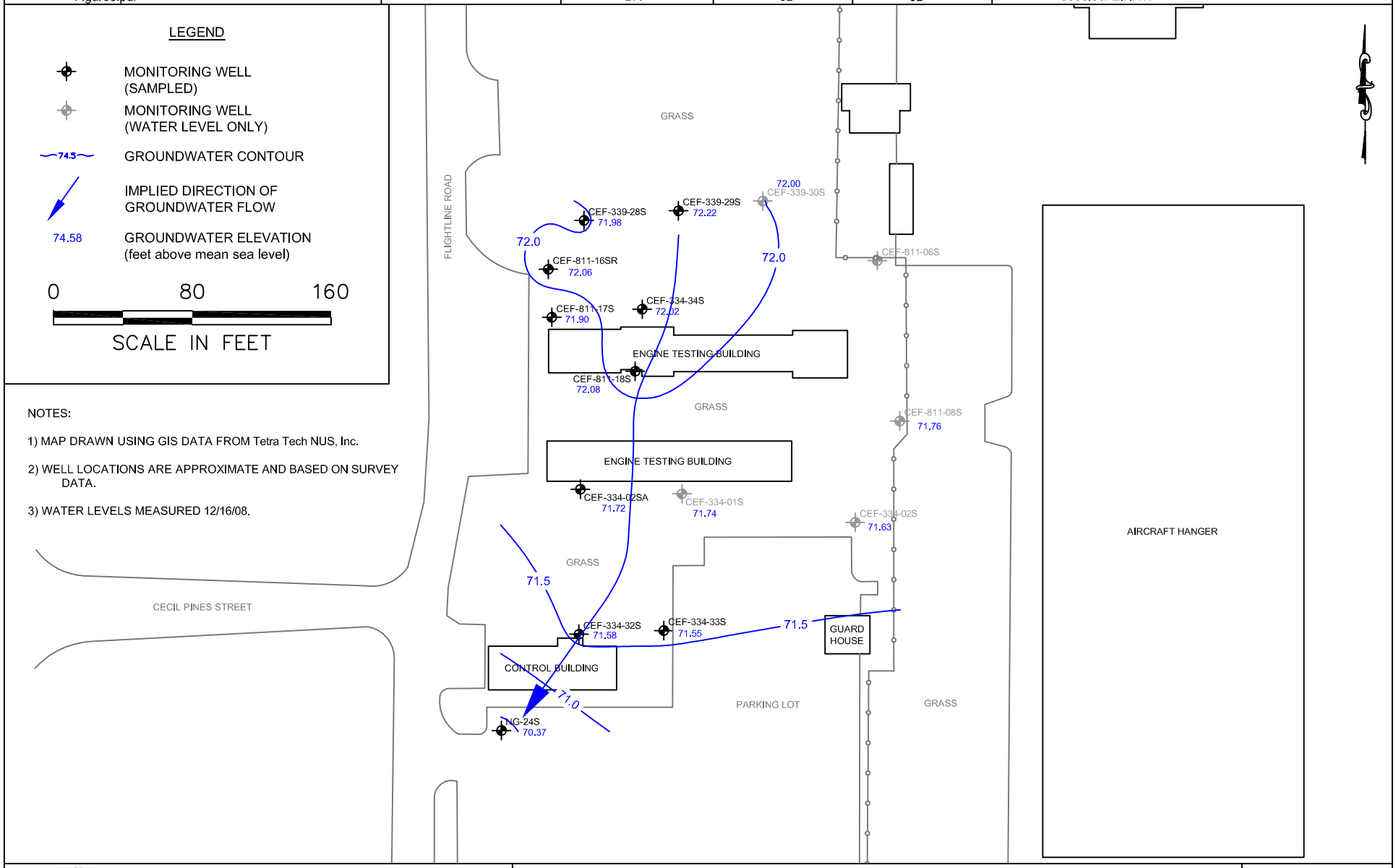

NOTES:

1) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

2) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA.

3) WATER LEVELS MEASURED 12/16/08.

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GROUNDWATER CONTOUR MAP
JETC - NAS CECIL FIELD
JACKSONVILLE, FL
DECEMBER 2008

FIGURE:

3

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FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure4.pdf	March 2009	BR	DM	JD	8030.08A2.NAVF

LEGEND

MONITORING WELL (SAMPLED)

4.16 EXCEEDANCE OF GCTL

0 80 160

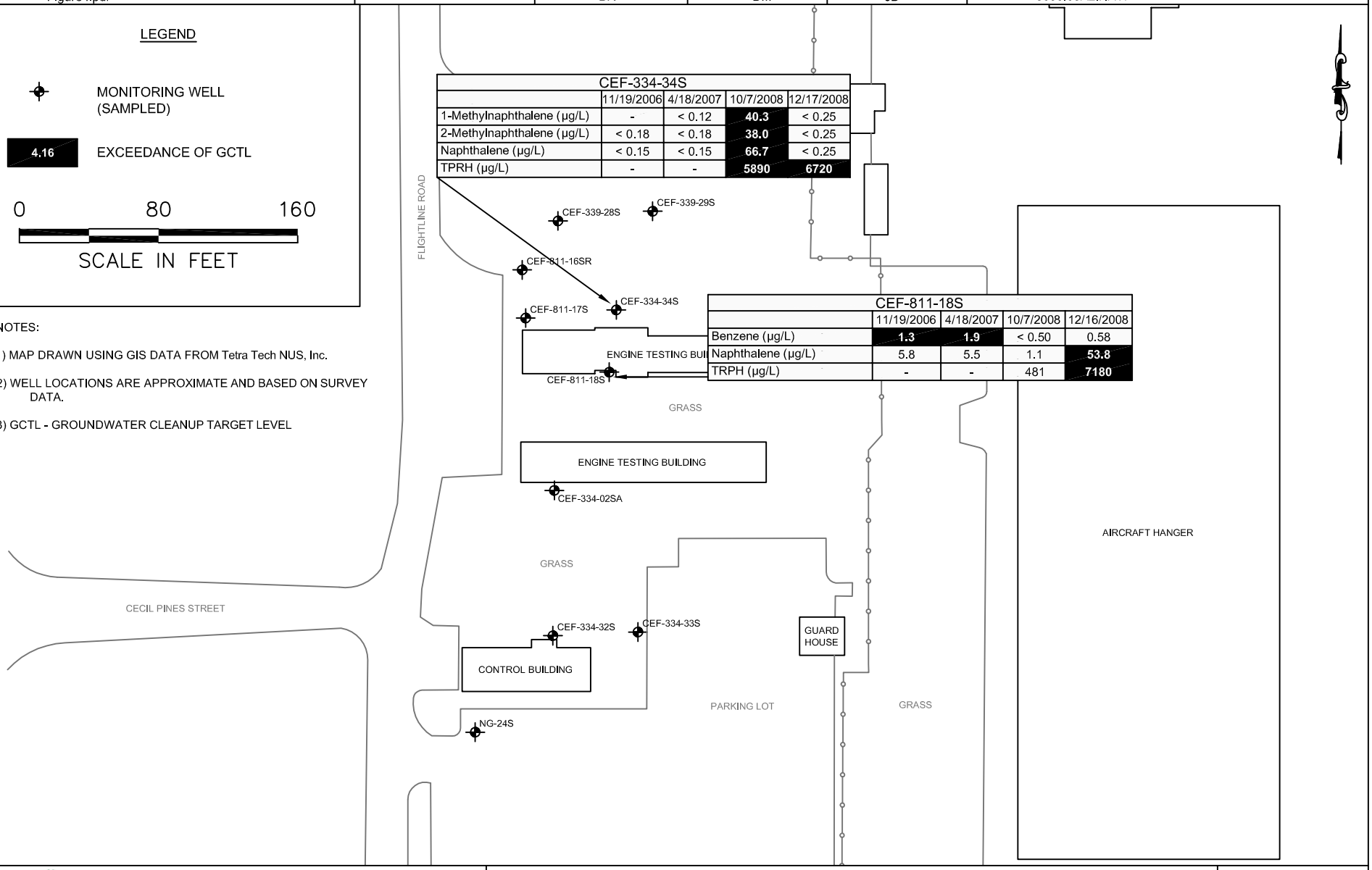
SCALE IN FEET

NOTES:

1) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

2) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA.

3) GCTL - GROUNDWATER CLEANUP TARGET LEVEL



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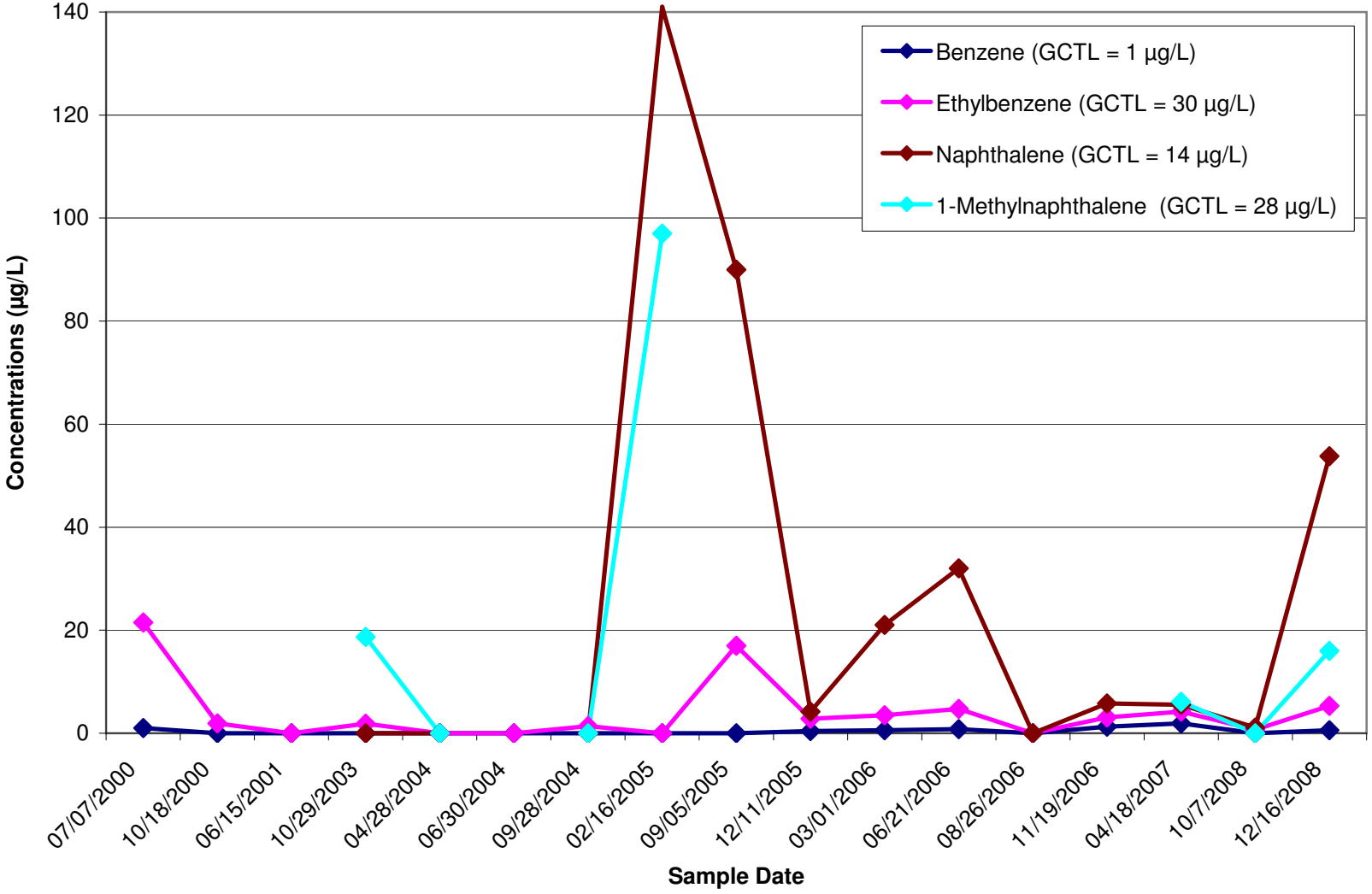
CONTAMINANT CONCENTRATION MAP
JETC - NAS CECIL FIELD
JACKSONVILLE, FL
DECEMBER 2008

FIGURE: 4

FIGURE 5
HISTORICAL CONTAMINANT CONCENTRATIONS IN CEF-811-18S



TABLES

TABLE 1
GROUNDWATER ELEVATIONS

JETC
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Ground Water Elevation (ft amsl)
CEF-334-01S	10/2003	79.00	5.99	73.01
	11/2003		6.69	72.31
	12/1/2003		7.71	71.29
	12/8/2003		7.83	71.17
	12/15/2003		7.73	71.27
	12/23/2003		7.95	71.05
	1/2004		8.34	70.66
	3/2003		8.41	70.59
	6/2004		7.44	71.56
	9/2004		2.59	76.41
	9/2005		4.55	74.45
	12/2005		5.60	73.40
	2/2006		5.60	73.40
	6/2006		8.00	71.00
	8/2006		8.82	70.18
	4/2007		9.48	69.52
	10/7/2008		4.80	74.20
	12/16/2008		7.26	71.74
CEF-334-02S	10/2003	78.61	5.75	72.86
	11/2003		6.45	72.16
	12/1/2003		7.27	71.34
	12/8/2003		7.45	71.16
	12/15/2003		7.36	71.25
	12/23/2003		7.59	71.02
	1/2004		7.97	70.64
	3/2003		8.03	70.58
	6/2004		7.05	71.56
	9/2004		2.32	76.29
	9/2005		4.14	74.47
	12/2005		5.06	73.55
	2/2006		5.14	73.47
	6/2006		7.36	71.25
	8/2006		8.02	70.59
	4/2007		8.83	69.78
	10/7/2008		4.64	73.97
	12/16/2008		6.98	71.63
CEF-334-02SA	10/2003	79.06	6.00	73.06
	11/2003		6.71	72.35
	12/1/2003		8.03	71.03
	12/8/2003		8.77	70.29
	12/15/2003		9.00	70.06
	12/23/2003		8.60	70.46
	1/2004		8.58	70.48
	3/2003		8.61	70.45
	6/2004		7.55	71.51
	9/2004		2.56	76.50
	9/2005		4.10	74.96
	12/2005		5.21	73.85
	2/2006		6.51	72.55
	6/2006		7.63	71.43
	8/2006		8.56	70.50
	4/2007		9.31	69.75
	10/7/2008		4.66	74.40
	12/16/2008		7.34	71.72
CEF-334-32S	10/2003	79.80	6.88	72.92
	11/2003		7.10	72.70
	12/1/2003		8.97	70.83
	12/8/2003		8.78	71.02
	12/15/2003		8.68	71.12
	12/23/2003		8.89	70.91
	1/2004		9.07	70.73
	3/2003		9.11	70.69
	6/2004		8.37	71.43
	9/2004		3.12	76.68
	9/2005		5.45	74.35
	12/2005		6.28	73.52
	2/2006		6.63	73.17
	6/2006		8.67	71.13
	8/2006		9.35	70.45
	4/2007		10.15	69.65
	10/7/2008		5.79	74.01
	12/16/2008		8.22	71.58

TABLE 1
GROUNDWATER ELEVATIONS

JETC
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Ground Water Elevation (ft amsl)
CEF-334-33S	10/2003	79.24	6.36	72.88
	11/2003		7.61	71.63
	12/1/2003		8.15	71.09
	12/8/2003		8.20	71.04
	12/15/2003		8.07	71.17
	12/23/2003		8.31	70.93
	1/2004		8.65	70.59
	3/2003		8.26	70.98
	6/2004		7.78	71.46
	9/2004		2.85	76.39
	9/2005		4.93	74.31
	12/2005		5.77	73.47
	2/2006		6.12	73.12
	6/2006		8.11	71.13
	8/2006		8.78	70.46
	4/2007		9.56	69.68
	10/7/2008		5.32	73.92
	12/16/2008		7.69	71.55
CEF-334-34S	10/2003	79.23	5.92	73.31
	11/2003		6.63	72.60
	12/1/2003		8.02	71.21
	12/8/2003		8.47	70.76
	12/15/2003		8.35	70.88
	12/23/2003		8.59	70.64
	1/2004		8.74	70.49
	3/2003		8.83	70.40
	6/2004		7.53	71.70
	9/2004		2.00	77.23
	9/2005		3.91	75.32
	12/2005		5.13	74.10
	2/2006		5.37	73.86
	6/2006		7.66	71.57
	8/2006		7.74	71.49
	4/2007		10.56	68.67
	10/7/2008		4.79	74.44
	12/16/2008		7.21	72.02
CEF-339-28S	10/2003	79.52	6.12	73.40
	11/2003		6.97	72.55
	12/1/2003		8.00	71.52
	12/8/2003		8.37	71.15
	12/23/2003		8.48	71.04
	1/2004		8.67	70.85
	3/2003		8.75	70.77
	6/2004		8.00	71.52
	9/2004		2.69	76.83
	9/2005		4.43	75.09
	12/2005		5.44	74.08
	2/2006		5.97	73.55
	6/2006		7.85	71.67
	8/2006		8.90	70.62
	4/2007		9.56	69.96
	10/7/2008		4.70	74.82
	12/16/2008		7.54	71.98
CEF-339-29S	10/2003	79.89	6.34	73.55
	11/2003		7.07	72.82
	12/1/2003		8.10	71.79
	12/8/2003		8.45	71.44
	12/15/2003		8.38	71.51
	12/23/2003		8.50	71.39
	1/2004		8.81	71.08
	3/2003		8.46	71.43
	6/2004		8.10	71.79
	9/2004		3.05	76.84
	9/2005		4.49	75.40
	12/2005		5.65	74.24
	2/2006		5.90	73.99
	6/2006		7.70	72.19
	8/2006		8.88	71.01
	4/2007		9.60	70.29
	10/7/2008		4.81	75.08
	12/16/2008		7.67	72.22

TABLE 1
GROUNDWATER ELEVATIONS

JETC
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Ground Water Elevation (ft amsl)
CEF-339-30S	10/2003	79.31	6.00	73.31
	11/2003		6.71	72.60
	12/1/2003		7.67	71.64
	12/8/2003		7.86	71.45
	12/15/2003		7.84	71.47
	12/23/2003		8.00	71.31
	1/2004		8.37	70.94
	3/2003		8.70	70.61
	6/2004		7.74	71.57
	9/2004		2.56	76.75
	9/2005		4.08	75.23
	12/2005		5.20	74.11
	2/2006		5.15	74.16
	6/2006		7.67	71.64
	8/2006		8.56	70.75
	4/2007		9.21	70.10
	10/7/2008		4.62	74.69
	12/16/2008		7.31	72.00
CEF-811-06S	10/2003	78.02	6.33	71.69
	11/2003		7.01	71.01
	12/1/2003		7.91	70.11
	12/8/2003		8.08	69.94
	12/15/2003		8.11	69.91
	12/23/2003		8.21	69.81
	1/2004		8.61	69.41
	3/2003		8.64	69.38
	6/2004		7.94	70.08
	9/2004		2.88	75.14
	9/2005		4.46	73.56
	12/2005		5.54	72.48
	2/2006		5.52	72.50
	6/2006		7.99	70.03
	8/2006		8.82	69.20
	4/2007		9.41	68.61
	10/7/2008		Filled w/Sediment	-
	12/16/2008		7.35	70.67
CEF-811-08S	10/2003	79.26	6.27	72.99
	11/2003		6.96	72.30
	12/1/2003		7.79	71.47
	12/8/2003		7.96	71.30
	12/15/2003		7.93	71.33
	12/23/2003		8.10	71.16
	1/2004		8.51	70.75
	3/2003		8.77	70.49
	6/2004		7.69	71.57
	9/2004		2.93	76.33
	9/2005		5.54	73.72
	12/2005		5.53	73.73
	2/2006		5.58	73.68
	6/2006		7.90	71.36
	8/2006		8.66	70.60
	4/2007		9.33	69.93
	10/7/2008		5.07	74.19
	12/16/2008		7.50	71.76
CEF-811-16SR	10/2003	79.54	6.06	73.48
	11/2003		6.95	72.59
	12/1/2003		8.16	71.38
	12/8/2003		8.38	71.16
	12/15/2003		8.24	71.30
	12/23/2003		8.20	71.34
	1/2004		8.71	70.83
	3/2003		8.82	70.72
	6/2004		7.95	71.59
	9/2004		2.39	77.15
	9/2005		4.15	75.39
	12/2005		5.20	74.34
	2/2006		7.81	71.73
	6/2006		7.81	71.73
	8/2006		8.86	70.68
	4/2007		9.45	70.09
	10/7/2008		4.48	75.06
	12/16/2008		7.48	72.06

TABLE 1
GROUNDWATER ELEVATIONS

JETC
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Ground Water Elevation (ft amsl)
CEF-811-17S	10/2003	79.34	6.01	73.33
	11/2003		6.81	72.53
	12/1/2003		7.98	71.36
	12/8/2003		8.17	71.17
	12/15/2003		8.03	71.31
	12/23/2003		8.27	71.07
	1/2004		8.38	70.96
	3/2003		8.45	70.89
	6/2004		7.80	71.54
	9/2004		2.28	77.06
	9/2005		4.35	74.99
	12/2005		5.40	73.94
	2/2006		7.46	71.88
	6/2006		7.89	71.45
	8/2006		8.84	70.50
	4/2007		9.48	69.86
	10/7/2008		4.75	74.59
	12/16/2008		7.44	71.90
CEF-811-18S	10/2003	79.52	6.33	73.19
	11/2003		7.03	72.49
	12/1/2003		8.15	71.37
	12/8/2003		8.31	71.21
	12/15/2003		8.19	71.33
	12/23/2003		8.40	71.12
	1/2004		8.80	70.72
	3/2003		8.91	70.61
	6/2004		7.91	71.61
	9/2004		2.95	76.57
	9/2005		4.82	74.70
	12/2005		5.58	73.94
	2/2006		7.84	71.68
	6/2006		7.82	71.70
	8/2006		8.93	70.59
	4/2007		9.53	69.99
	10/7/2008		5.06	74.46
	12/16/2008		7.44	72.08
NG-24S	10/2003	78.17	6.38	71.79
	11/2003		7.11	71.06
	12/1/2003		8.33	69.84
	12/8/2003		8.18	69.99
	12/15/2003		8.08	70.09
	12/23/2003		8.29	69.88
	1/2004		8.71	69.46
	3/2003		8.83	69.34
	6/2004		7.95	70.22
	9/2004		2.97	75.20
	9/2005		5.05	73.12
	12/2005		5.90	72.27
	2/2006		6.04	72.13
	6/2006		8.21	69.96
	8/2006		8.90	69.27
	4/2007		9.69	68.48
	10/7/2008		5.39	72.78
	12/16/2008		7.80	70.37

Notes: ft amsl - feet above mean sea level
ft btoc - below top of casing

TABLE 2
FIELD ANALYTICAL RESULTS

JETC
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Temperature (°C)	pH (SU)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/L)	Oxidation Reducation Potential (mV)	Turbidity (NTU)
CEF-334-02SA	12/11/2005	20.2	6.26	133.1	0.11	5	12.95
	2/28/2006	21.43	8.78	116	6.02	-127.8	120
	8/27/2006	25.4	6.15	120.1	0.18	-46	141.5
	4/18/2007	22.85	5.65	125	0.4	-97.3	140
	10/7/2008	26.11	5.88	246	1	35	48
	12/17/2008	23.86	6.20	262	0.3	20.3	15.4
CEF-334-32S	12/11/2005	20.2	5.76	56.9	5.28	64	60.2
	2/28/2006	20.04	5.78	59	6.2	78.7	16.23
	8/27/2006	25	5.1	48.9	3.05	179	7.53
	4/18/2007	22.75	4.3	73	0.54	-149	3
	10/7/2008	25.73	7.85	109	4	-68.1	212
	12/16/2008	22.02	5.73	78	2	49	218
CEF-334-33S	12/11/2005	22.2	4.97	67.7	0.9	213	17.49
	2/28/2006	20.6	4.99	61	1.28	-15.9	75
	8/27/2006	26.5	4.39	91.9	0.26	172	9.52
	4/18/2007	23.3	4.42	106	0.7	186.8	90
	10/7/2008	26.97	9.07	102	1.92	-327	116
	12/18/2008	22.77	5.32	54	1	124	31.6
CEF-334-34S	12/11/2005	17.3	6.25	307.3	0.42	-4	5.23
	2/28/2006	18.9	7.83	112	6.54	-59	371
	8/27/2006	31.8	6.21	171.9	2.99	123	18.63
	4/18/2007	20.96	5.87	196	0.65	49	86
	10/7/2008	25.51	4.86	297	1.99	-82.2	43.3
	12/17/2008	20.27	6.20	270	0	23.4	28.1
CEF-339-28S	12/11/2005	20	6.85	96.3	0.14	-97	2.25
	2/28/2009	20.59	8.45	662	0.93	-93.2	9.4
	8/27/2006	28.9	6.72	812	0.09	-133	3.05
	4/18/2007	21.33	6.38	644	0.59	115.5	10
	10/7/2008	26.01	6.48	760	0.73	12.8	16
	12/17/2008	22.16	6.87	764	0.3	91	62
CEF-339-29S	12/11/2005	22.3	6.91	606	0.11	-97	2.54
	2/28/2006	20.6	8.07	485	2.99	-73.8	4.19
	8/27/2006	30.0	6.82	348.7	0.15	39	22.8
	4/18/2007	21.55	6.25	350	0.4	125.7	3
	10/7/2008	25.99	7.75	769	NM	-144.7	3.16
	12/17/2008	23.87	7.06	936	0.2	-100	9
CEF-811-16SR	12/11/2005	20.3	6.34	363.4	0.3	38	18.48
	2/28/2006	20.19	8.24	234	5.85	-69.1	370
	8/27/2006	30.3	6.74	347.9	3.63	102	22.5
	4/18/2007	20.44	5.73	205	0.45	34.8	16
	10/7/2008	26.43	7.39	404	0.6	-145.3	18.2
	12/17/2008	21.6	6.31	380	0.3	-191	30.6
CEF-811-17S	12/11/2005	20.5	6.65	345	0.17	-42	10.61
	2/28/2006	20.14	9.15	267	1.54	-188	21.3
	8/27/2006	31.1	6.22	215.1	0.29	-55	40.5
	4/18/2007	20.4	6.23	527	0.7	33.3	12
	10/7/2008	26.88	5.52	455	2	7.9	9.04
	12/17/2008	20.73	6.29	346	0.8	-179	7.2
CEF-811-18S	12/11/2005	20.5	6.08	221.5	0.25	-2	7.36
	2/28/2006	20.11	7.87	176	1.18	-167.7	12.7
	8/27/2006	27.4	6.12	184.8	0.17	-84	17.16
	4/18/2007	21.62	5.98	270	0.49	-157.2	4
	10/7/2008	25.38	3.49	138	0.15	47.4	9.91
	12/16/2008	22.54	5.70	184	0.4	58.6	4.97
NG-24S	12/11/2005	22.1	5.72	98.7	0.51	199	2.24
	2/28/2006	21.39	6.26	92	5.1	-96.6	2.88
	8/27/2006	28.5	6.06	151.1	0.51	124	3.85
	4/18/2007	24.04	5.84	155	0.81	122.1	10
	10/7/2008	28.3	5.35	108	3	63.8	3.64
	12/18/2008	24.45	6.12	61	1	125	11

Notes: °C - Degrees Celsius
SU - Standard units
µS/cm - MicroSiemens per centimeter
mg/L - Milligrams per liter
mV - Millivolts
NTU - Nephelometric turbidity unit
NM - Not Measured

TABLE 3
LABORATORY ANALYTICAL RESULTS

JETC
NAS Cecil Field
Jacksonville, Florida

		VOLATILE ORGANIC COMPOUNDS (µg/L)					POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)			
Well ID	**Sample Date**	**Benzene**	**Ethylbenzene**	**Methyl-*tert*-butyl-ether**	**Total Xylenes**	**Toluene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**Naphthalene**	**TRPH (C8 - C40) (µg/L)**
GCTL (µg/L)		1	30	20	20	40	28	28	14	5000
CEF-334-01S	03/25/1997	<1	**15**	<1	**5.1**	<1	-	-	-	**1100**
	07/07/2000	**3.9**	**15.4**	<1	**12.4**	<1	-	-	-	**2550**
	10/16/2000	**0.72 J**	**4.5**	<1	**3.5**	<1	-	-	-	**519**
	06/15/2001	<1	**2**	<1	<3	<1	-	-	-	**908**
	10/29/2003	<0.5	**1.94 J**	<5	**1.2 J**	<5	**4.18 J**	<2.73	<5.62	<279
CEF-334-02S	03/25/1997	<1	<1	<1	<1	<1	-	-	-	<500
	05/09/2000	<1	<1	-	<3	<1	-	-	-	**594**
		<1	<1	-	<3	<1	-	-	-	**638**
	07/07/2000	**11.5**	**95.5**	<1	**257**	**114**	-	-	-	ND
	6/14/2001	ND	ND	ND	ND	ND	ND	ND	ND	**14600**
	10/29/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	02/28/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/27/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	-	<0.23	<0.12	<0.18	<0.15	-
CEF-334-02SA	7/7/2000	ND	ND	ND	ND	ND	ND	ND	ND	**19500**
	10/16/2000	**3.5**	**23.6**	<1	**87.5**	**20.3**	-	-	-	**29300**
	06/14/2001	**11.8**	**76.3**	<2	**296**	**86.4**	-	-	-	-
	10/28/2003	<1.05	<20.9	<5	<24.6	**1.45 J**	**51.2 J**	<84.2	<102	<5710
	04/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<1090
	06/29/2004	<0.5	**1.79 J**	<5	<10	<5	<2.76	<1.99	**5.16 J**	<2040
	09/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<1200
	02/16/2005	<0.5	<5	<5	<10	<5	**2.28 J**	<1	<0.25	**256 J**
	10/7/2008	<0.5	<0.5	<0.5	<1	**1.9**	<0.24	<0.24	<0.24	**2870**
	12/17/2008	<0.5	**0.63 I**	<0.5	<1	<0.50	<0.98	<0.98	<0.98	**2730**
CEF-334-32S	06/15/2001	<1	**2.1**	<1	**7.6**	<1	-	-	-	**2300**
	10/28/2003	<0.5	**1.05 J**	<5	**4.29 J**	<5	**14.2 J**	<15.9	<10.9	<955
	04/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<337
	06/29/2004	<0.5	<5	<5	<10	<5	<3.98	<2.54	<0.495	<100
	09/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<103
	02/16/2005	<0.5	<5	<5	**2.12 J**	<5	<1	<1	<0.25	<821
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	**0.15 I**	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	02/28/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/27/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	**3.8**	<0.5	**0.58 I**	<0.24	<0.24	**689**
	12/16/2008	<0.5	<0.5	<0.5	**3.7**	<0.5	<0.24	<0.24	<0.24	**1770**
CEF-334-33S	06/15/2001	<1	<1	<1	<3	<1	-	-	-	<250
	10/28/2003	<0.5	<5	<5	<10	<5	**0.448 J**	**0.877 J**	<2.92	<100
	04/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<165
	06/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.817	<120
	09/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
	02/16/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	02/28/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/27/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160
	12/16/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160
CEF-334-34S	06/13/2001	<1	<1	<1	<3	<1	-	-	-	**24100**
	10/29/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<8990
	04/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<984
	06/30/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<5090
	09/29/2004	<0.5	<5	<5	<10	<5	<10	<10	<2.5	<8270
	02/16/2005	<0.5	<5	<5	<10	<5	<10	<10	<2.5	<2220
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	12/11/2005	<0.21	<0.17	<0.35	-	**0.44 I**	-	<0.18	<0.15	-
	03/01/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/26/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	**5.2**	<0.5	<1	<0.5	**40.3**	**38.0**	**66.7 a**	**5890**
	12/17/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.25	<0.25	<0.25	**6720**

TABLE 3
LABORATORY ANALYTICAL RESULTS

JETC
NAS Cecil Field
Jacksonville, Florida

		VOLATILE ORGANIC COMPOUNDS (µg/L)					POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)			
Well ID	Sample Date	Benzene	Ethylbenzene	Methyl-*tert*-butyl-ether	Total Xylenes	Toluene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	TRPH (C8 - C40) (µg/L)
GCTL (µg/L)		1	30	20	20	40	28	28	14	5000
CEF-339-28S	07/05/2000	**5.3**	**40.7**	<1	**5.7**	<1	-	-	-	**9220**
	10/18/2000	**3.5**	**39.4**	**0.54 J**	**5.1**	<1	-	-	-	**11200**
	06/14/2001	**2.3**	**41**	<1	**6.2**	**0.90 J**	-	-	-	**13600**
		2.2	**42.2**	<1	**5.9**	**0.91 J**	-	-	-	**13800**
	10/29/2003	<1.08	<5	<5	<10	<5	<40	<50.8	<68	<1950
	04/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<11200
	06/30/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<9130
	09/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<866
	02/16/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<831
	09/05/2005	<0.21	<0.17	<0.35	-	**0.74 I**	-	**0.28 I**	**1.4**	-
	12/11/2005	<0.21	<0.17	<0.35	-	**0.61 I**	-	**0.49 I**	**2**	-
	03/01/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	**0.27 I**	**1.7**	-
	08/26/2006	<0.21	<0.17	<0.35	-	<0.23	-	**0.35 I**	**1.4**	-
	04/19/2007	<0.21	<0.17	<0.35	<0.63	<0.23	**2.9**	**2**	**13**	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**192 I**
	12/17/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**196**
CEF-339-29S	07/05/2000	**1.5**	**41**	<1	**7.2**	<1	-	-	-	**6530**
	10/17/2000	<1	<1	<1	3 U	<1	-	-	-	**2850**
	06/14/2001	<1	**21.2**	<1	**4.5**	<1	-	-	-	**8000**
	10/29/2003	0.59 U	**4.57 J**	<5	**4.74 J**	<5	<14.2	<13.3	<33.9	<16640
	04/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<1170
	06/30/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<693
	09/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<265
	02/16/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<252
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	**0.17 I**	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	03/01/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/26/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/19/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**261**
	12/17/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**403**
CEF-339-30S	07/06/2000	<1	**2.9**	<1	**2.2 J**	<1	-	-	-	**2570**
		<1	<1	<1	<3	<1	-	-	-	**3000**
	10/17/2000	<1	<1	<1	<3	<1	-	-	-	<250
	06/14/2001	<1	**0.75 J**	<1	<3	<1	-	-	-	<280
	10/29/2003	**0.139 J**	**3.63 J**	<5	**2.41 J**	<5	**24.6 J**	<12.8	<15	<2540
CEF-811-06S	07/06/2000	<1	<1	<1	<3	<1	-	-	-	<250
	10/17/2000	<1	<1	<1	<3	<1	-	-	-	<280
	06/15/2001	<1	<1	<1	<3	<1	-	-	-	<250
	10/29/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<255
CEF-811-08S	07/07/2000	<1	<1	<1	<3	<1	-	-	-	**6480**
	10/16/2000	<1	<1	<1	<3	<1	-	-	-	<280
	06/15/2001	<1	<1	<1	<3	<1	-	-	-	**216 J**
		<1	<1	<1	<3	<1	-	-	-	**277 J**
	10/29/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
CEF-811-16SR	06/13/2001	**14.3**	**33.3**	<1	**4.3**	**0.76 J**	-	-	-	**6160**
	10/29/2003	<28.4	<60.8	**2.61 J**	<65.1	**0.582 J**	<72.8	<58.4	**92.8 J**	<1910
	04/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<699
	06/30/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<311
	09/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	**67.5 J**
	02/16/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<1130
	09/05/2005	<0.63	<0.51	<1.1	-	<0.69	-	<0.18	<0.15	-
	12/11/2005	<0.63	<0.51	<1.1	-	<0.69	-	<0.18	<0.15	-
	03/01/2006	<0.63	<0.51	<1.1	-	<0.69	-	<0.18	<0.15	-
	06/21/2006	<0.63	<0.51	<1.1	-	<0.69	-	<0.18	<0.15	-
	08/26/2006	<0.63	<0.51	<1.1	-	<0.69	-	<0.18	<0.15	-
	11/19/2006	<0.63	<0.51	<0.35	-	<0.69	-	<0.18	<0.15	-
	04/19/2007	<0.63	<0.51	<1.1	<1.89	<0.69	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160
	12/17/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**732**
CEF-811-17S	07/06/2000	<1	<1	<1	<3	<1	-	-	-	**3690**
		<1	<1	<1	<3	<1	-	-	-	**3000**
	10/18/2000	<1	<1	<1	<3	<1	-	-	-	**533**
	06/13/2001	<1	**4.6**	<1	<3	<1	-	-	-	**17600**
	10/29/2003	<0.5	**1.05 J**	<5	**0.554 J**	<5	**6.39 J**	**1.75 J**	<6.82	<1470
	04/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<235
	06/30/2004	<0.5	<5	<5	<10	<5	<1.15	<1.15	<0.287	<506
	09/29/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<204
	02/16/2005	<0.5	<5	**1.55 J**	<10	<5	<1	<1	<0.25	<691
	09/05/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	02/28/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	**0.16 I , J4**	-
	08/26/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/19/2007	<0.21	**0.76**	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160
	12/17/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	**2760**

TABLE 3
LABORATORY ANALYTICAL RESULTS

JETC
NAS Cecil Field
Jacksonville, Florida

		VOLATILE ORGANIC COMPOUNDS (µg/L)					POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)			
Well ID	**Sample Date**	**Benzene**	**Ethylbenzene**	**Methyl-*tert*-butyl-ether**	**Total Xylenes**	**Toluene**	**1-Methylnaphthalene**	**2-Methylnaphthalene**	**Naphthalene**	**TRPH (C8 - C40) (µg/L)**
GCTL (µg/L)		1	30	20	20	40	28	28	14	5000
CEF-811-18S	07/07/2000	**1**	**21.5**	<1	**3.1**	<1	-	-	-	**463**
	10/18/2000	<1	**1.9**	<1	<3	<1	-	-	-	**1320**
	06/15/2001	<1	<1	<1	<3	<1	-	-	-	**2750**
	10/29/2003	<0.5	**1.87 J**	<5	<10	<5	**18.7 J**	22.4 U	<42.1	<2080
	04/28/2004	<0.5	<5	<5	<10	<5	<89.6	<34	<0.292	<2900
	06/30/2004	<0.5	<5	<5	<10	<5	-	-	-	<2770
	09/28/2004	<0.5	**1.36 J**	<5	<10	<5	14.9 U	<1	<8.92	<1670
	02/16/2005	<0.896	<5.93	<5	<10	<5	**97 J**	<17.3	**141 J**	<5470
	09/05/2005	<0.63	**17**	<1.1	-	<0.69	-	**22**	**90**	-
		<4.2	**16**	<7	-	<4.6	-	**26**	**90**	-
	12/11/2005	**0.40 I**	**2.8**	<0.35	-	**0.42 I**	-	**0.19**	**4.2 J4**	-
	03/01/2006	**0.60 I**	**3.5**	<0.35	-	**0.36 I**	-	**2.8**	**21**	-
	06/21/2006	**0.80 I**	**4.7**	<0.35	-	<0.23	-	**3.1**	**32**	-
	08/26/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	**1.3**	**3.1**	<0.35	-	<0.23	-	**1**	**5.8**	-
	04/18/2007	**1.9**	**4.2**	<0.35	<0.63	<0.23	**6.1**	**1.3**	**5.5**	-
	10/7/2008	<0.5	**0.68 I**	<0.5	<1	<0.5	<0.24	<0.24	**1.1**	**481**
	12/16/2008	**0.58 I**	**5.3**	<0.5	**3.9**	<0.5	**16.0**	**14.3**	**53.8**	**7180**
NG-24S	08/07/2001	<1	<1	<1	<3	<1	-	-	-	<280
	10/29/2003	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<114
	04/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	**67.8 J**
	06/30/2004	<0.5	<5	<5	<10	<5	<1.15	<1.15	<0.287	<100
	09/28/2004	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
	02/16/2005	<0.5	<5	<5	<10	<5	<1	<1	<0.25	<100
	09/04/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	12/11/2005	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	02/28/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	06/21/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	08/27/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	11/19/2006	<0.21	<0.17	<0.35	-	<0.23	-	<0.18	<0.15	-
	04/18/2007	<0.21	<0.17	<0.35	<0.63	<0.23	<0.12	<0.18	<0.15	-
		<0.21	<0.17	<0.35	<0.693	<0.23	<0.12	<0.18	<0.15	-
	10/7/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160
	12/16/2008	<0.5	<0.5	<0.5	<1	<0.5	<0.24	<0.24	<0.24	<160

NOTES:
µg/L - Micrograms per liter
GCTL - Groundwater Cleanup Target Level
Shading indicates values greater than the GCTL
Bold indicates values above the method detection limit.
J - Estimated Concentration
"-" indicates that results are not available.
I - indicates values that are greater than the method detection limit but less than the lab reporting limit

APPENDIX A

GROUNDWATER SAMPLING LOGS

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-334-02SA	SAMPLE ID: CEF-334-02SA	DATE: 12/17/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.44	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2' Above bottom	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: ~~11:10~~ 11:15	PURGING ENDED AT: 11:51	TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
11:21 ~~11:15~~		0.3	210 ml/min	7.52	6.3	23.72	310	0.84	51.3	clear		38.6
11:26		0.6		7.52	~~6.5~~ 6.2	23.85	293	0.71	49.3	clear		27.6
11:31		0.8		7.53	6.2	23.83	279	0.55	34.8	clear		26.6
11:36		1.1		*7.53	6.2	23.83	269	0.58	25.1			22.5
11:41		1.4		*7.54	6.2	23.85	264	0.59	20.1			19.6
11:46		1.7		*7.54	6.2	23.85	264	0.59	17.1			19.6
11:51		1.9		7.54	6.2	23.86	262	0.59	15.4			20.3

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Jessica DeHart	SAMPLER(S) SIGNATURES: J DeHart	SAMPLING INITIATED AT: 11:53	SAMPLING ENDED AT: 12:17
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.3
*JET NOISE DIFFICULT TO HEAR W/ INDICATOR, USED LIGHT

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-334- 34S	SAMPLE ID: CEF-334-34S	DATE: 12/17/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.31	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2' Above bottom	FINAL PUMP OR TUBING DEPTH IN WELL (feet): Same	PURGING INITIATED AT: 10:10	PURGING ENDED AT: 10:31	TOTAL VOLUME PURGED (gallons): 1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
10:13		0.3	200 ml/min	7.40	5.8	20.01	270	1.41	30.4	~~lt brown~~	none	51.5
10:18		0.6		7.41	6.1	20.17	270	0.95	31.7	Clear	slight	37.[illegible]
10:22		1.0		7.42	6.2	20.27	271	0.82	27.8	Clear	slight	30.[illegible]
10:28		1.4		7.42	6.2	20.27	270	0.81	28.1	Clear	slight	23.[illegible]

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Jessica Dehart	SAMPLER(S) SIGNATURES: J Dehart	SAMPLING INITIATED AT: 10:31	SAMPLING ENDED AT: 11:00
PUMP OR TUBING DEPTH IN WELL (feet): 11.5 BTOC	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPG	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0
NO TUBING IN WELL - REPLACED w/ 3/4" MISSING 1 VOA - NOT ENOUGH WATER

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-339-29S	SAMPLE ID: CEF-339-29S	DATE: 12/17/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.67	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3' OFF BOTTOM	PURGING INITIATED AT: 1048	PURGING ENDED AT: 1116	TOTAL VOLUME PURGED (gallons): 0.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1103	0.3			7.96	7.12	23.63	927	6.29	63	CLEAR	—	-97.
1108	0.4			7.96	7.10	23.71	930	4.30	24	"	"	-98.
1112	0.6			7.96	7.09	23.80	933	3.95	16	"	"	-10
1115	0.7			7.95	7.06	23.87	936	3.82	9	"	"	-10.

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: JACK STRADTER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1157
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.2 NO WELL I.D. 156 ml/min

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-339-28S	SAMPLE ID: CEF-339-28S	DATE: 12-17-08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.56	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3' from Bottom	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0944	PURGING ENDED AT: 1007	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0954	0.3			8.19	6.69	21.66	741	1.20	90	CLOUDY	NONE
0958	0.5			8.28	6.75	21.78	747	1.20	63	"	"
1002	0.7			8.35	6.83	22.06	756	1.04	57	"	"
1005	0.8			8.45	6.87	22.16	764	0.98	62	"	"

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: JACK STRADER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1012	SAMPLING ENDED AT: 1038
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.3 NO WELL TAG 170 mL/min

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-811- 16SR	SAMPLE ID: CEF-811-16 SR	DATE: 12/17/08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.53	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OK
1111	0.3			8.07	6.31	21.15	374	0.57	57.2	Turbid	None	-175
1114	0.4			8.18	6.31	21.32	376	0.42	51.5			-174
1117	0.5			8.27	6.32	21.39	377	0.32	42.0			-178
1120	0.6			8.34	6.31	21.47	380	0.25	37.0			-183
1123	0.7			8.39	6.31	21.51	381	0.23	34.6			-190
1126	0.8			8.43	6.31	21.60	380	0.20	30.6			-191

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1130	SAMPLING ENDED AT: 1159
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: PVC	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.3 mg/l Flow Rate: 75 ml/30sec

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-811-17S	SAMPLE ID: CEF-811-17S	DATE: 12/17/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.51	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 940	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OX
9:51	0.2			7.90	6.35	20.59	347	1.06	13.1	Clear	None	-16
9:54	0.3			7.93	6.34	20.74	347	0.95	12.0			-17
9:57	0.4			7.96	6.34	20.82	348	0.86	11.4			-180
10:00	0.5			7.78	6.34	20.88	347	0.75	10.7			-17
1003	0.6			7.99	6.33	20.94	347	0.62	8.6			-18
1006	0.7			8.00	6.33	20.82	347	0.48	9.5			-19
1009	0.8			8.02	6.30	20.74	346	0.38	8.5			-185
1012	0.9			8.03	6.29	20.73	346	0.34	7.2			-179

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1048
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 140	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.8 mg/l Flow Rate: 70ml/30sec.

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

(*) Well cap damaged/does not close tightly/should probably replace

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL
WELL NO: CEF-811- 18S	SAMPLE ID: CEF-811-18S / DATE: 12/16/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.62	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:58	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
16:06		0.3	220	7.70	4.8	22.61	182	1.21	17.9	clear	none	86.[illegible]
16:11		0.6		7.71	5.5	22.56	181	0.76	9.22	clear	none	78.4
16:16		0.9		7.72	5.7	22.54	183	0.53	5.68	clear	slight	68.[illegible]
16:21		1.1		7.72	5.7	22.54	184	0.51	4.97	clear	slight	58.[illegible]

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: JESSICA DEHART	SAMPLER(S) SIGNATURES: Jessica Dehart	SAMPLING INITIATED AT: 16:23	SAMPLING ENDED AT: 16:50 ~~17:50~~
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 0.4

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-334-335	SAMPLE ID: CEF-334-335	DATE: 12/18/08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.385	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.73	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1635	PURGING ENDED AT: 1655	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
1645			0.2	7.81	5.45	22.70	53	1.89	39.4	Clear	None	12
1648			0.3	7.83	5.43	22.75	52	1.68	34.0			124
1651			0.4	7.91	5.39	22.78	51	1.57	34.3			124
1654			0.5	7.94	5.35	22.80	55	1.47	32.4			123
1657			0.6	7.96	5.32	22.77	54	1.40	31.6			124

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1655	SAMPLING ENDED AT: 1724
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 170	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 1.0 mg/l Flow Rate: 85 ml/30 sec

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: NG-24S	SAMPLE ID: NG-24S	DATE: 12/18/08

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.83	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1546	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (gallons): 0.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1552	0.2			7.96	6.26	24.61	62	2.29	13.4	Clear	None
1555	0.3			7.96	6.18	24.53	61	2.20	10.9		
1558	0.4			7.96	6.12	24.45	61	2.11	11.0		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: Leif Hazlewood	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1627
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 1 mg/l Flow Rate: 95 ml/30 sec

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: JETC-Cecil Field	SITE LOCATION: Jacksonville, FL	
WELL NO: CEF-334-325	SAMPLE ID:	DATE: 12-16-08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.25	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1553	PURGING ENDED AT: 1636	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OR
1605	0.5			8.30	5.43	21.95	145	1.93	280	CLOUDY	NONE	54.
1609	0.7			8.30	5.44	21.94	128	1.90	265	"	"	58.
1612	0.8			8.30	5.51	21.99	120	2.03	249	"	"	56.
1618	1.0			8.30	6.16	22.12	106	2.18	238	"	"	57.
1628	1.4			8.30	5.79	21.99	80	2.23	224	"	"	52.
1631	1.5			8.30	5.75	22.00	78	2.35	220	"	"	50
1635	1.6			8.30	5.73	22.02	78	2.39	218	"	"	49

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: JACK STRAPER	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1637	SAMPLING ENDED AT: 1710
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	2	AG	1 L	None	NA		PAHs SW8270C-SIM	PP
	2	AG	1 L	H_2SO_4	Added at Lab	Not Recorded	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	Added at Lab	Not Recorded	BTEX & MTBE SW8021B	RFPP

REMARKS: Field Kits: DO: 2.0

180 mL/min

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX B

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

e-Hardcopy 2.0
Automated Report

Southeast ACCUTEST

01/08/09

Technical Report for

Solutions-IES, Inc

Cecil Field Jet C; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F62321

Sampling Dates: 12/16/08 - 12/17/08

Report to:

Solutions-IES, Inc

ruhlmanc@solutions-ies.com

ATTN: Carrie Ruhlmann

Total number of pages in report: 61

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

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

Southeast • 4405 Vineland Road • Suite C-15 • Orlando, FL 32811 • tel: 407-425-6700 • fax: 407-425-0707 • http://www.accutest.com

Note: This report is password protected to disallow document modification or assembly.
To obtain a version that can be unlocked, contact your client service representative.

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Accutest Laboratories

Sample Summary

Solutions-IES, Inc

Job No: F62321

Cecil Field Jet C; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F62321-1	12/16/08	00:00 LH	12/18/08	AQ	Trip Blank Water	TRIP BLANK
F62321-2	12/16/08	16:55 LH	12/18/08	AQ	Ground Water	CEF-334-33S
F62321-3	12/16/08	16:00 LH	12/18/08	AQ	Ground Water	NG-24S
F62321-4	12/16/08	16:23 LH	12/18/08	AQ	Ground Water	CEF-811-18S
F62321-5	12/16/08	16:37 LH	12/18/08	AQ	Ground Water	CEF-334-32S
F62321-6	12/17/08	10:12 LH	12/18/08	AQ	Ground Water	CEF-339-28S
F62321-7	12/17/08	11:20 LH	12/18/08	AQ	Ground Water	CEF-339-29S
F62321-8	12/17/08	10:15 LH	12/18/08	AQ	Ground Water	CEF-811-17S
F62321-9	12/17/08	11:30 LH	12/18/08	AQ	Ground Water	CEF-811-16SR
F62321-10	12/17/08	12:05 LH	12/18/08	AQ	Equipment Blank	EQUIPMENT BLANK
F62321-11	12/17/08	10:31 LH	12/18/08	AQ	Ground Water	CEF-334-34S
F62321-12	12/17/08	11:53 LH	12/18/08	AQ	Ground Water	CEF-334-025A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc **Job No:** F62321

Site: Cecil Field Jet C; Jacksonville, FL **Report Date** 1/8/2009 10:53:11 AM

11 Samples, 1 Trip Blank were collected on between 12/16/2008 and 12/17/2008 and received at Accutest on 12/18/2008 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F62321. 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.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP27536

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F62321-8MS, F62321-8MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 1-Methylnaphthalene, Benzo(b)fluoranthene are outside control limits.

Matrix Spike Recovery(s) for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Pyrene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene, Pyrene are outside control limits. Probable cause due to matrix interference.

F62321-4: Dilution required due to matrix interference.

F62321-12: Dilution required due to matrix interference.

Volatiles by GC By Method SW846 8021B

Matrix: AQ **Batch ID:** GQQ1596

All samples were analyzed within the recommended method holding time.

Sample(s) F62321-2MS, F62321-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GQQ1597

All samples were analyzed within the recommended method holding time.

Sample(s) F62239-4MS, F62239-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F62321-12: All hits confirmed by dual column analysis.

F62321-4: All hits confirmed by dual column analysis.

F62321-5: All hits confirmed by dual column analysis.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP27531

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F62306-3MS, F62306-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F62321-4 have surrogates outside control limits. Probable cause due to matrix interference.

F62321-4 for o-Terphenyl: Outside control limits due to matrix interference.

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: January 08, 2009

Svetlana Izosimova, QAO (signature on file)

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F62321-1	**Date Sampled:**	12/16/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042891.D	1	12/23/08	TD	n/a	n/a	GQQ1596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-33S		
Lab Sample ID:	F62321-2	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044133.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	117%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-33S		
Lab Sample ID:	F62321-2	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042892.D	1	12/23/08	TD	n/a	n/a	GQQ1596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-33S		
Lab Sample ID:	F62321-2	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53908.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912
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	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	NG-24S		
Lab Sample ID:	F62321-3	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044134.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.95	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.95	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.95	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.095 U	0.19	0.095	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.95	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.95	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.95	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.95	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.95	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	109%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	NG-24S		
Lab Sample ID:	F62321-3	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042905.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	NG-24S		
Lab Sample ID:	F62321-3	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53909.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912
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	100%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-18S		
Lab Sample ID:	F62321-4	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R17310.D	4	12/24/08	RB	12/19/08	OP27536	SR813
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	2.0 U	3.9	2.0	ug/l	
208-96-8	Acenaphthylene	2.0 U	3.9	2.0	ug/l	
120-12-7	Anthracene	2.0 U	3.9	2.0	ug/l	
56-55-3	Benzo(a)anthracene	0.20 U	0.78	0.20	ug/l	
50-32-8	Benzo(a)pyrene	0.20 U	0.78	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	0.20 U	0.78	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.20 U	0.78	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	0.20 U	0.78	0.20	ug/l	
218-01-9	Chrysene	0.39 U	0.78	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.20 U	0.78	0.20	ug/l	
206-44-0	Fluoranthene	0.98 U	3.9	0.98	ug/l	
86-73-7	Fluorene	2.0 U	3.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.20 U	0.78	0.20	ug/l	
90-12-0	1-Methylnaphthalene	16.0	3.9	0.98	ug/l	
91-57-6	2-Methylnaphthalene	14.3	3.9	0.98	ug/l	
91-20-3	Naphthalene	53.8	3.9	0.98	ug/l	
85-01-8	Phenanthrene	0.98 U	3.9	0.98	ug/l	
129-00-0	Pyrene	0.98 U	3.9	0.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	47%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

(a) Dilution required due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-18S		
Lab Sample ID:	F62321-4	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ042906.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.58	1.0	0.50	ug/l	I
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	5.3	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	3.9	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	100%		73-118%

(a) All hits confirmed by dual column analysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-18S		
Lab Sample ID:	F62321-4	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53930.D	8	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	7.18	1.9	1.3	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	158% [a]		38-122%

(a) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-32S		
Lab Sample ID:	F62321-5	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044136.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	110%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-32S		
Lab Sample ID:	F62321-5	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ042907.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	3.7	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(a) All hits confirmed by dual column analysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-32S		
Lab Sample ID:	F62321-5	**Date Sampled:**	12/16/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53931.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	1.77	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-28S		
Lab Sample ID:	F62321-6	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044137.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	111%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-28S		
Lab Sample ID:	F62321-6	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042908.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-28S		
Lab Sample ID:	F62321-6	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53932.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	0.196	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-29S		
Lab Sample ID:	F62321-7	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044138.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	99%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-29S		
Lab Sample ID:	F62321-7	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042909.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-339-29S		
Lab Sample ID:	F62321-7	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53933.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	0.403	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-17S		
Lab Sample ID:	F62321-8	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044139.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	114%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-17S		
Lab Sample ID:	F62321-8	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042910.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-17S		
Lab Sample ID:	F62321-8	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53934.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	2.76	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-16SR		
Lab Sample ID:	F62321-9	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044142.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.49 U	0.97	0.49	ug/l	
208-96-8	Acenaphthylene	0.49 U	0.97	0.49	ug/l	
120-12-7	Anthracene	0.49 U	0.97	0.49	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.049 U	0.19	0.049	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.049 U	0.19	0.049	ug/l	
207-08-9	Benzo(k)fluoranthene	0.049 U	0.19	0.049	ug/l	
218-01-9	Chrysene	0.097 U	0.19	0.097	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.24 U	0.97	0.24	ug/l	
86-73-7	Fluorene	0.49 U	0.97	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.97	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.97	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.97	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.97	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	115%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-16SR		
Lab Sample ID:	F62321-9	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042911.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-811-16SR		
Lab Sample ID:	F62321-9	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53935.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	0.732	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F62321-10	**Date Sampled:**	12/17/08
Matrix:	AQ - Equipment Blank	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044143.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.48 U	0.96	0.48	ug/l	
208-96-8	Acenaphthylene	0.48 U	0.96	0.48	ug/l	
120-12-7	Anthracene	0.48 U	0.96	0.48	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	0.048 U	0.19	0.048	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.096 U	0.19	0.096	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.24 U	0.96	0.24	ug/l	
86-73-7	Fluorene	0.48 U	0.96	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
90-12-0	1-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-57-6	2-Methylnaphthalene	0.24 U	0.96	0.24	ug/l	
91-20-3	Naphthalene	0.24 U	0.96	0.24	ug/l	
85-01-8	Phenanthrene	0.24 U	0.96	0.24	ug/l	
129-00-0	Pyrene	0.24 U	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	117%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F62321-10	**Date Sampled:**	12/17/08
Matrix:	AQ - Equipment Blank	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042914.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F62321-10	**Date Sampled:**	12/17/08
Matrix:	AQ - Equipment Blank	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53936.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913
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	102%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-34S		
Lab Sample ID:	F62321-11	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W044144.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.50 U	0.99	0.50	ug/l	
208-96-8	Acenaphthylene	0.50 U	0.99	0.50	ug/l	
120-12-7	Anthracene	0.50 U	0.99	0.50	ug/l	
56-55-3	Benzo(a)anthracene	0.050 U	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	0.050 U	0.20	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	0.050 U	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.050 U	0.20	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	0.050 U	0.20	0.050	ug/l	
218-01-9	Chrysene	0.099 U	0.20	0.099	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.050 U	0.20	0.050	ug/l	
206-44-0	Fluoranthene	0.25 U	0.99	0.25	ug/l	
86-73-7	Fluorene	0.50 U	0.99	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050 U	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	0.25 U	0.99	0.25	ug/l	
91-57-6	2-Methylnaphthalene	0.25 U	0.99	0.25	ug/l	
91-20-3	Naphthalene	0.25 U	0.99	0.25	ug/l	
85-01-8	Phenanthrene	0.25 U	0.99	0.25	ug/l	
129-00-0	Pyrene	0.25 U	0.99	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	113%		39-121%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-34S		
Lab Sample ID:	F62321-11	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ042915.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-34S		
Lab Sample ID:	F62321-11	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53937.D	8	12/24/08	SL	12/19/08	OP27531	GIJ1913
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	6.72	1.9	1.3	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	115%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-025A		
Lab Sample ID:	F62321-12	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R17311.D	4	12/24/08	RB	12/19/08	OP27536	SR813
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	2.0 U	3.9	2.0	ug/l	
208-96-8	Acenaphthylene	2.0 U	3.9	2.0	ug/l	
120-12-7	Anthracene	2.0 U	3.9	2.0	ug/l	
56-55-3	Benzo(a)anthracene	0.20 U	0.78	0.20	ug/l	
50-32-8	Benzo(a)pyrene	0.20 U	0.78	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	0.20 U	0.78	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.20 U	0.78	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	0.20 U	0.78	0.20	ug/l	
218-01-9	Chrysene	0.39 U	0.78	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.20 U	0.78	0.20	ug/l	
206-44-0	Fluoranthene	0.98 U	3.9	0.98	ug/l	
86-73-7	Fluorene	2.0 U	3.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.20 U	0.78	0.20	ug/l	
90-12-0	1-Methylnaphthalene	0.98 U	3.9	0.98	ug/l	
91-57-6	2-Methylnaphthalene	0.98 U	3.9	0.98	ug/l	
91-20-3	Naphthalene	0.98 U	3.9	0.98	ug/l	
85-01-8	Phenanthrene	0.98 U	3.9	0.98	ug/l	
129-00-0	Pyrene	0.98 U	3.9	0.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	103%		39-121%

(a) Dilution required due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-025A		
Lab Sample ID:	F62321-12	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ042916.D	1	12/23/08	TD	n/a	n/a	GQQ1597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.63	1.0	0.50	ug/l	I
1330-20-7	Xylenes (total)	1.0 U	3.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) All hits confirmed by dual column analysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-334-025A		
Lab Sample ID:	F62321-12	**Date Sampled:**	12/17/08
Matrix:	AQ - Ground Water	**Date Received:**	12/18/08
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field Jet C; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ53940.D	4	12/24/08	SL	12/19/08	OP27531	GIJ1913
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)	2.73	0.96	0.65	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST.

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

Accutest JOB # F62321 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: Solutions-IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Carrie Rehlman E-mail:
Phone#: 919-873-1040
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Cecil Field (JETC)
Street:
City: Jacksonville State: Fl
Project #: 8030, 08A2, NAVF
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	Oil Water	MeOH	PAH (SW8270C-SIM)	TRPH-FL-PRO	BTEX+MTBE SW 8021B	VOCs 8260B								Matrix Codes / LAB USE ONLY
1	Trip Blank																		X								
2	CEF-334-33S	12/16	1655	LH	GW	7			X			X				X	X	X									
3	NG-24S	12/16	1600	LH												X	X	X									
4	CEF-811-18S		1623	JD												X	X	X									
5	CEF-334-32S		1637	JS												X	X	X									
6	CEF-339-28S	12/17	1012	JS												X	X	X									
7	CEF-339-29S	12/17	1120	JS												X	X	X									
8	CEF-811-17S	12/17	1015	LH												X	X	X									
9	CEF-811-16SR		1130	LH												X	X	X									
10	Equipment Blank		1205	LH												X	X	X									
11	CEF-334-34S		1031	JD												X	X	X									
12	CEF-334-02SA		1153	JD												X	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)
- [ ] 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 Laura Marshall	12/17 1530	2 Elizabeth Hollis 12/17/08	3 Elizabeth Hollis (Accutest)	12/17/08	4 Clem 12/18/08 9:00
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: 5 Cooler Temperature (s) Celsius: _____

2.0 2.2 2.4 2.4 2.4

4.1 4

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F62321 CLIENT: Southern Tier PROJECT: Cecil Field

DATE/TIME RECEIVED: 01/17/2012 # OF COOLERS RECEIVED: 5 COOLER TEMPS: 2.0 2.2 2.2 2.4 2.4

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
- [ ] SAMPLE DATES/TIMES ARE MISSING OR INCORRECT
- [ ] TEMPERATURE REQUIREMENT NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] 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
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] EXCESSIVE SEDIMENT IN BOTTLE FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] DATES 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 ?

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

SUMMARY OF COMMENTS: Sample 11 only received 2 vials

TECHNICIAN SIGNATURE/DATE: [illegible] TECHNICIAN SIGNATURE/DATE: E.T. 1-17-12

4.1

4

GC/MS 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: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27536-MB	W044125.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	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	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	86%	42-108%
321-60-8	2-Fluorobiphenyl	85%	40-106%
1718-51-0	Terphenyl-d14	117%	39-121%

Method Blank Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27536-MB	R17309.D	1	12/24/08	RB	12/19/08	OP27536	SR813

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.50	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.50	ug/l	
120-12-7	Anthracene	ND	1.0	0.50	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	0.050	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.050	ug/l	
218-01-9	Chrysene	ND	0.20	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.50	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.25	ug/l	
91-20-3	Naphthalene	ND	1.0	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	91%	42-108%
321-60-8	2-Fluorobiphenyl	87%	40-106%
1718-51-0	Terphenyl-d14	111%	39-121%

Blank Spike Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27536-BS	W044124.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	25	22.6	90	60-94
208-96-8	Acenaphthylene	25	19.4	78	60-92
120-12-7	Anthracene	25	23.2	93	69-98
56-55-3	Benzo(a)anthracene	2.5	2.4	96	65-102
50-32-8	Benzo(a)pyrene	2.5	2.6	104	74-106
205-99-2	Benzo(b)fluoranthene	2.5	2.7	108*	71-104
191-24-2	Benzo(g,h,i)perylene	2.5	2.4	96	60-104
207-08-9	Benzo(k)fluoranthene	2.5	2.3	92	70-104
218-01-9	Chrysene	2.5	2.4	96	69-104
53-70-3	Dibenzo(a,h)anthracene	2.5	2.4	96	63-107
206-44-0	Fluoranthene	25	22.0	88	70-99
86-73-7	Fluorene	25	23.0	92	62-95
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	2.5	100	63-107
90-12-0	1-Methylnaphthalene	25	23.8	95*	57-94
91-57-6	2-Methylnaphthalene	25	21.4	86	58-90
91-20-3	Naphthalene	25	21.9	88	58-92
85-01-8	Phenanthrene	25	22.8	91	68-98
129-00-0	Pyrene	25	25.3	101	66-102

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	100%	42-108%
321-60-8	2-Fluorobiphenyl	96%	40-106%
1718-51-0	Terphenyl-d14	113%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27536-MS	W044140.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
OP27536-MSD	W044141.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243
F62321-8	W044139.D	1	12/23/08	NJ	12/19/08	OP27536	SW2243

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	F62321-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.97	U	48.1	33.0	69	33.3	69	1	60-94/25
208-96-8	Acenaphthylene	0.97	U	48.1	28.7	60	29.2	61	2	60-92/24
120-12-7	Anthracene	0.97	U	48.1	43.6	91	43.1	90	1	69-98/19
56-55-3	Benzo(a)anthracene	0.19	U	4.81	4.9	102	4.8	100	2	65-102/23
50-32-8	Benzo(a)pyrene	0.19	U	4.81	5.2	108*	5.1	106	2	74-106/23
205-99-2	Benzo(b)fluoranthene	0.19	U	4.81	5.8	121*	5.6	116*	4	71-104/24
191-24-2	Benzo(g,h,i)perylene	0.19	U	4.81	3.0	62	3.2	67	6	60-104/22
207-08-9	Benzo(k)fluoranthene	0.19	U	4.81	5.2	108*	5.0	104	4	70-104/22
218-01-9	Chrysene	0.19	U	4.81	4.8	100	4.7	98	2	69-104/21
53-70-3	Dibenzo(a,h)anthracene	0.19	U	4.81	3.3	69	3.5	73	6	63-107/21
206-44-0	Fluoranthene	0.97	U	48.1	44.9	93	44.4	92	1	70-99/23
86-73-7	Fluorene	0.97	U	48.1	38.0	79	37.1	77	2	62-95/25
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	4.81	3.5	73	3.7	77	6	63-107/24
90-12-0	1-Methylnaphthalene	0.97	U	48.1	32.8	68	35.3	73	7	57-94/26
91-57-6	2-Methylnaphthalene	0.97	U	48.1	29.7	62	32.1	67	8	58-90/23
91-20-3	Naphthalene	0.97	U	48.1	29.3	61	32.1	67	9	58-92/23
85-01-8	Phenanthrene	0.97	U	48.1	43.2	90	43.0	89	0	68-98/23
129-00-0	Pyrene	0.97	U	48.1	56.5	118*	54.3	113*	4	66-102/25

CAS No.	Surrogate Recoveries	MS	MSD	F62321-8	Limits
4165-60-0	Nitrobenzene-d5	66%	76%	74%	42-108%
321-60-8	2-Fluorobiphenyl	66%	72%	70%	40-106%
1718-51-0	Terphenyl-d14	110%	113%	114%	39-121%

GC 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: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1596-MB	QQ042873.D	1	12/22/08	TD	n/a	n/a	GQQ1596

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-1, F62321-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	73-118%

Method Blank Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1597-MB	QQ042903.D	1	12/23/08	TD	n/a	n/a	GQQ1597

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Blank Spike Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1596-BS	QQ042872.D	1	12/22/08	TD	n/a	n/a	GQQ1596

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-1, F62321-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.1	96	80-120
100-41-4	Ethylbenzene	20	19.6	98	79-121
1634-04-4	Methyl Tert Butyl Ether	20	17.8	89	72-113
108-88-3	Toluene	20	19.3	97	79-121
1330-20-7	Xylenes (total)	60	58.1	97	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	73-118%

Blank Spike Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1597-BS	QQ042902.D	1	12/23/08	TD	n/a	n/a	GQQ1597

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.5	98	80-120
100-41-4	Ethylbenzene	20	20.0	100	79-121
1634-04-4	Methyl Tert Butyl Ether	20	18.5	93	72-113
108-88-3	Toluene	20	19.6	98	79-121
1330-20-7	Xylenes (total)	60	58.9	98	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62321-2MS	QQ042896.D	1	12/23/08	TD	n/a	n/a	GQQ1596
F62321-2MSD	QQ042897.D	1	12/23/08	TD	n/a	n/a	GQQ1596
F62321-2	QQ042892.D	1	12/23/08	TD	n/a	n/a	GQQ1596

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-1, F62321-2

CAS No.	Compound	F62321-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U		20	19.0	95	18.8	94	1	80-120/10
100-41-4	Ethylbenzene	1.0 U		20	19.7	99	19.5	98	1	79-121/9
1634-04-4	Methyl Tert Butyl Ether	1.0 U		20	17.9	90	17.8	89	1	72-113/13
108-88-3	Toluene	1.0 U		20	19.2	96	19.0	95	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U		60	57.9	97	57.5	96	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F62321-2	Limits
460-00-4	4-Bromofluorobenzene	104%	101%	89%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	100%	98%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F62239-4MS	QQ042932.D	1	12/23/08	TD	n/a	n/a	GQQ1597
F62239-4MSD	QQ042933.D	1	12/23/08	TD	n/a	n/a	GQQ1597
F62239-4 [a]	QQ042929.D	1	12/23/08	TD	n/a	n/a	GQQ1597

The QC reported here applies to the following samples: **Method:** SW846 8021B

F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	F62239-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2.8		20	21.5	94	21.3	93	1	80-120/10
100-41-4	Ethylbenzene	0.92	I	20	20.2	96	20.2	96	0	79-121/9
1634-04-4	Methyl Tert Butyl Ether	9.3		20	27.0	89	27.2	90	1	72-113/13
108-88-3	Toluene	1.0 U		20	18.7	94	18.8	94	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U		60	57.4	96	57.4	96	0	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F62239-4	Limits
460-00-4	4-Bromofluorobenzene	105%	106%	93%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	102%	98%	73-118%

(a) All hits confirmed by dual column analysis.

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: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27531-MB	IJ53894.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912

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

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

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	100%	38-122%

Method Blank Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27531-MB	IJ53929.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913

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

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

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	94%	38-122%

Blank Spike Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27531-BS	IJ53893.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912

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

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.799	94	54-110

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	104%	38-122%

Blank Spike Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27531-BS	IJ53928.D	1	12/24/08	SL	12/19/08	OP27531	GIJ1913

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

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.719	85	54-110

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	100%	38-122%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F62321
Account: SIESNCR Solutions-IES, Inc
Project: Cecil Field Jet C; Jacksonville, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP27531-MS	IJ53901.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912
OP27531-MSD	IJ53902.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912
F62306-3	IJ53900.D	1	12/23/08	SL	12/19/08	OP27531	GIJ1912

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

F62321-2, F62321-3, F62321-4, F62321-5, F62321-6, F62321-7, F62321-8, F62321-9, F62321-10, F62321-11, F62321-12

CAS No.	Compound	F62306-3 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C8-C40)	0.183	I	1.63	1.66	90	1.55	83	7	54-110/28

CAS No.	Surrogate Recoveries	MS	MSD	F62306-3	Limits
84-15-1	o-Terphenyl	101%	98%	101%	38-122%