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ANNUAL GROUNDWATER MONITORING LETTER REPORT YEAR 4 AND SUPPLEMENTAL SOIL SAMPLING REPORT FOR OCALA F-18 CRASH SITE NAS CECIL FIELD FL

10/5/2009

TETRA TECH NUS INC

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Document Tracking Number 09JAX0061

October 5, 2009

Project Number 112GN4093

Mr. David Grabka
Remedial Project Manager
Technical Review/Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: CLEAN III Contract Number N62467-94-D-0888
Contract Task Order 0209

Subject: Annual Groundwater Monitoring Report, Year 4, and Supplemental Soil Sampling Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Annual Groundwater Monitoring Report and Supplemental Soil Sampling Report under the referenced Contract Task Order for the Ocala F-18 Crash Site. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) III Contract Number N62467-94-D-0888. This report summarizes the field work and laboratory analytical results for the Year 4 annual sampling event and supplemental soil sampling conducted during the week of March 11, 2009, in accordance with the Natural Attenuation Monitoring Plan Approval Order (NAMPAO) issued by the Florida Department of Environmental Protection (FDEP) and Chapter 62-770, Florida Administrative Code (F.A.C.). The NAMPAO is included as Attachment A. Groundwater sampling activities were performed in general accordance with FDEP Standard Operating Procedures (SOPs) 1001 and FS 2002 and TtNUS SOP SA-1.1.

BACKGROUND

The Ocala F-18 Crash Site is located in the Ocala National Forest approximately 82 miles south of Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, and approximately 22 miles southeast of Ocala, Florida. The general site location is depicted on Figure 1.

In June 1994, a Navy F-18 jet, based at and flying from NAS Cecil Field, crashed in the Ocala National Forest. A Site Assessment (February 1995) and initial remedial actions (September and November 1994, and January 1996) were conducted by Bechtel Environmental, Inc. In September 1997, Harding Lawson Associates (HLA) sampled monitoring wells CEF-CS1A, CEF-CS2, and CEF-CS3 to evaluate groundwater quality at the site. Concentrations of benzene, ethylbenzene, total xylenes, and naphthalene detected in monitoring well CEF-CS1A exceeded Groundwater Cleanup Target Levels (GCTLs) cited in Chapter 62-777, F.A.C. An additional monitoring well (CEF-CS7) was installed on November 20, 1997, to assess downgradient groundwater quality. HLA submitted a Monitoring Only Natural Attenuation (MONA) Plan for the site, dated January 20, 1998, that was approved by FDEP in April 1998. HLA performed

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quarterly groundwater monitoring from May 4, 1998, through February 22, 1999. TtNUS began performing semi-annual monitoring activities after the February 1999 sampling event.

During the third year of semi-annual monitoring in October 2002, TtNUS recommended preparation of a treatability study to use an innovative technology to remediate the site because the concentrations of contaminants of concern (COCs) had not decreased to meet the MONA target levels. The Base Realignment and Closure (BRAC) Cleanup Team (BCT) decided to continue with monitoring instead of conducting the treatability study. The COCs, as defined in the MONA, were benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether, and polynuclear aromatic hydrocarbons (PAHs). Semi-annual monitoring continued in April 2003, and concentrations of COCs appeared to be below milestones set by the MONA order; therefore, continued monitoring was recommended. Because five years had transpired without a decrease in COCs to concentrations less than GCTLs, FDEP required the installation of 3 additional wells directly downgradient of the source well (CEF-CS1A), FDEP also required the additional wells to be sampled, and included in all further reporting, and recommend path forward in each report. Based on the need for a more refined delineation of the plume centered on well CEF-CS1A, TtNUS mobilized to the site in January 2005, to install three perimeter wells (CEF-CS-8, CEF-CS-9, and CEF-CS-10). The FDEP reviewed the Supplemental Site Assessment Letter Report which presented a new Natural Attenuation Monitoring Plan (NAMP) dated August 3, 2005 and approved the NAMP on October 21, 2005.

Results of the sampling event conducted after the installation of new monitoring wells in 2005 showed concentrations of benzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene in exceedance of GCTLs at CEF-CS1A. Isopropyl benzene was also detected in excess of its GCTL in the source well (CEF-CS1A). In addition, benzo(a)anthracene and benzo(b)fluoranthene were detected in excess of GCTLs in monitoring well CEF-CS8; however, this was an isolated event. Based on the new sampling data, a revised NAMP was proposed with new action levels for different wells and the following COCs: benzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. FDEP approved the recommendation for a NAMPAO in October 2005 (see Attachment A).

Brief summaries of the groundwater results for the semi-annual sampling events following approval of the revised NAMPAO is provided below.

During the sampling event conducted in March 2006, the 1,2,4-trimethylbenzene concentration at CEF-CS1A was greater than the GCTL. During the September 2006 sampling event, benzene and 1,2,4-trimethylbenzene concentrations were greater than GCTLs at CEF-CS1A,. In February 2007, concentrations of benzene, 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene concentrations were greater than GCTLs at CEF-CS1A. In August 2007, concentrations of 1,2,4-trimethylbenzene, isopropyl benzene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were greater than GCTLs at CEF-CS1A. The source well was the only well located on site that showed any detections or exceedances of COCs.

Groundwater samples collected from the source well during the February 2008, Year 4 monitoring event had benzene, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene concentrations greater than the End of Year 3 action levels specified in the NAMPAO. The February 2008 groundwater results were presented during the July 2008 BCT meeting. In order to evaluate if a continuing source was contributing to the contamination plume, a short summary of the historical soil investigations at the site was presented to the BCT.

According to a January 20, 1998, Monitoring Only Proposal by ABB, in September and November 1994, approximately 2,650 cubic yards of contaminated soil were excavated from the site by Bechtel in September and November 1994. In February 1995, Bechtel completed a Site Assessment including installation and sampling of six soil borings, three piezometers, and one permanent monitoring well (CEF-CS1A). In January 1996, Bechtel removed an additional 576 tons of soil and installed five additional monitoring wells (CEF-CS2, 3, 4, 5, 6). Details in records regarding the vertical and horizontal extent of

the soil removal activities, including any confirmatory soil sampling locations and analyses, are not available. Because of the data gaps regarding the soil excavation, additional soil sampling was recommended and approved during the July 2008 BCT meeting to further investigate the potential contributing source in the area surrounding well CEF-CS1A.

A brief discussion of the sampling activities, and soil and groundwater results for the annual Year 4 (March 2009) sampling event are provided below.

FIELD ACTIVITIES

In accordance with the Supplemental Soil Sampling Work Plan-February 2009, eight soil samples from five boring locations (SBCS01AR, SB02, SB03, SB04, SB06) were collected on March 11 and 12, 2009, by sampling in groups of four locations every 10 feet from CEF-CS1A until the extent of field-analyzed soil contamination was delineated. (see Table 4) The initial soil sampling location was located adjacent to the existing source well CEF-CS1A. Based on historical groundwater elevation data, the depth to water in the area of CEF-CS1A has fluctuated from approximately 20 feet to 30 feet below ground surface (bgs). Eight soil samples from five boring locations with elevated Organic Vapor Analyzer-Flame Ionization Detector (OVA-FID) readings [per Feb 2009 Work Plan, elevated is greater than 50 parts per million (ppm)], after correction for methane, were collected for fixed-laboratory analysis.

Following collection, the soil samples were placed on ice and hand-delivered under chain of custody to Accutest Laboratories Southeast in Orlando, Florida, for analysis. The samples were analyzed via United States Environmental Protection Agency (USEPA) Method 8260B for volatile organic compounds (VOCs) including isopropyl benzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene and USEPA Method 8270C SIM for PAHs including 1-methylnaphthalene and 2-methylnaphthalene.

One of the samples was collected from the area near the location of CEF-CS1A and also analyzed for total organic carbon (TOC). One additional sample for TOC analysis was collected from SB03, due to significant changes in the soil characteristics identified during the Direct Push Technology (DPT) effort.

All DPT soil sample locations, in addition to all groundwater monitoring wells, were identified and recorded using a hand-held global positioning system (GPS).

Groundwater monitoring well CEF-CS1A was abandoned and a replacement well immediately reinstalled at the same location just prior to the March 2009 sampling event. This was done according to the February 2009 Work Plan, to ensure that the groundwater samples are representative of the groundwater in that area of the site The one newly installed well was identified as CEF-CS1AR, and its location was recorded along with the other groundwater monitoring wells using a GPS. CEF-CS1AR was subsequently surveyed by Boyer Singleton, Inc of Orlando, Florida, on August 18, 2009. Because the replacement well CEF-CS1AR was surveyed months after the installation, the groundwater elevation for the replacement well was not measured for this sampling event.

On March 9, 12, and 13, 2009, groundwater samples were collected using the bailer method from the source monitoring well (CEF-CS1AR) and four perimeter wells (CEF-CS3, CEF-CS6, CEF-CS8, and CEF-CS10). Locations of the monitoring wells are shown on Figures 2 and 4.

Prior to obtaining groundwater samples, water levels in all wells were measured and recorded on a site-specific groundwater level measurement sheet. The depth to water ranged from 22.82 feet below top of casing (btoc) (CEF-CS4) to 26.34 feet btoc (CEF-CS2). General protocols were in accordance with FDEP SOPs and TtNUS SOP SA-1.1. The groundwater data were recorded on groundwater sample log sheets and low-flow purge data sheets. Depth-to-water measurements, top-of-casing elevations, and groundwater elevations are presented in Table 1.

RESULTS

Soil

During the March 2009 sampling event, concentrations of 1,2,4-trimethylbenzene (345 µg/kg) and 1-methylnaphthalene (3,770 µg/kg), exceeded their respective SCTLs for leachability of 300 µg/kg and 3,100 µg/kg, respectively in CEF-OCS-SB4 at a depth of 28 feet bls. Additional contaminants detected in soil samples collected at CEF-SB-CS01AR, CEF-CEF-OCS-SB2, CEF-OCS-SB3, CEF-OCS-SB4 and CEF-OCS-SB6 did not exceed SCTLs including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-methylnapthalene, and naphthalene.

Laboratory analytical results from the March 2009 sampling event are presented on Figure 3 and summarized in Table 4. The laboratory analytical report is provided as Attachment B.

Groundwater

The groundwater elevation data from March 2009 indicate that downgradient groundwater flow is to the north, which is consistent with groundwater flow observed in sampling events prior to August 2007, as shown on Figure 2.

During the March 2009 sampling event, concentrations of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, total xylenes, and isopropyl benzene exceeded their respective GCTLs in source well CEF-CS1AR. Isopropyl benzene was detected in CEF-CS10 in excess of its GCTL, and 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, total xylenes were detected in CEF-CS10 at concentrations below GCTLs. The concentration of isopropyl benzene exceeded its GCTL in the downgradient well CEF-CS10. CEF-CS10 is one of the new wells installed in January 2005, as a semi-annual monitoring event. No other target analytes were not detected in the other wells sampled.

In perimeter monitoring wells CEF-CS3, CEF-CS6, and CEF-CS8, target analytes were not detected at concentrations greater than their associated detection limits; therefore, the results from these wells were less than their End of Year 4 action levels specified in the NAMPAO. In well CEF-CS1AR, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene were greater than their End of Year 4 action levels specified in the NAMPAO. In CEF-CS10, all results were less than their End of Year 4 action levels specified in the NAMPAO. Laboratory analytical results from the March 2009 sampling event are presented on Figure 4 and summarized in Table 2.

The historical laboratory analytical results and action levels are summarized in Table 3. The laboratory analytical report is provided as Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

The detected concentrations of 1,2,4-trimethylbenzene and 1-methynaphthalene exceeded their respective leachability SCTLs in CEF-OCS-SB4 at a depth of 28 feet bls, which was 2 feet below the water table. The location of CEF-OCS-SB4 is upgradient from the source well CEF-CS1AR, which contained GCTL exceedances for several constituents.

The following conclusions are based on evaluation of groundwater data collected in March 2009:

- 1,2,4-Trimethylbenzene and 1,3,5-trimethylbenzene concentrations more than tripled in the source well CEF-CS1AR since the February 2008 sampling event.

- The 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and naphthalene concentrations in the source well CEF-CS1AR were greater than the End of Year 4 action levels, which are identified in the 2005 NAMPAO.

- The benzene, 1-methylnaphthalene, and 2-methylnaphthalene concentrations in the source well CEF-CS1AR were less than the End of Year 4 action levels.

- Isopropyl benzene and naphthalene concentrations decreased in the source well since the previous sampling event (February 2008), but remained greater than their respective GCTLs.

- Isopropyl benzene was detected at 10.6 µg/L, in excess of its Natural Attenuation Default Concentration of 8 µg/L. No action level was designated for isopropyl benzene in the NAMPAO, because it was not identified as a COC in the original NAMPAO. Per previous sampling events, isopropyl benzene was identified by the BCT as a COC after the NAMPAO was issued.

- All contaminants detected in perimeter wells, except CEF-CS10, were at concentrations less than their respective GCTLs and action levels for perimeter wells specified in the NAMPAO.

These results were presented to the May 2009 BCT, and the team recommended that long-term monitoring continue during the next event (5th Year Annual) in February 2010. Depending on the results from the 5th Year sampling event, a Risk Management Option (RMO) II (62-780, F.A.C.) may be pursued.

If you have any questions regarding this submittal, please contact Kara Wimble at (904) 730-4669, extension 214, or via e-mail at Kara.Wimble@TetraTech.com.

Sincerely,

Mark A. Peterson, P.G.
Task Order Manager
Florida License Number PG-0001852

Kara F. Wimble
Project Scientist

MAP/kw

Attachments (8)

c: A. Sanford, NAVFAC SE (CD only)
J. Thorsen, Seminole Ranger District
M. Perry, TtNUS (unbound and CD)
R. Simcik, TtNUS (bookcase file)
D. Humbert, TtNUS (cover letter only)
CTO 209 Project File
J. Johnson, TtNUS (Information Repository)

CERTIFICATION

The information contained herein is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the information described in this report. This Annual Groundwater Monitoring Report, Year 4, and Supplemental Soil Sampling Report was developed for the Ocala F-18 Crash Site and should not be construed to apply to any other site.

October 5, 2009
Mark A. Peterson, P.G.
Florida License Number PG-0001852

TABLES

Table 1
Groundwater Elevation and Monitoring Well Construction Data

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	TOC Elevation (ft msl)*	May 4, 1998		August 26, 1998		November 23, 1998		February 22, 1999	
				Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)
CEF-CS1A	31.0	15.5 to 30.5	81.30	20.30	61.00	21.85	59.45	20.23	61.07	22.39	58.91
CEF-CS2	29.5	14.0 to 29.0	83.54	22.52	61.02	24.17	59.37	22.42	61.12	24.60	58.94
CEF-CS3	32.0	16.5 to 31.5	80.98	20.08	60.90	21.60	59.38	20.00	60.98	22.16	58.82
CEF-CS4	29.5	14.0 to 29.0	79.88	19.05	60.83	20.55	59.33	18.96	60.92	21.12	58.76
CEF-CS5	33.0	17.5 to 32.5	80.66	19.79	60.87	21.06	59.60	19.50	61.16	21.68	58.98
CEF-CS6	53.5	48.0 to 53.0	81.59	20.61	60.98	22.15	59.44	20.52	61.07	22.67	58.92
CEF-CS7	29.9	19.0 to 29.0	80.89	20.11	60.78	21.64	59.25	20.00	60.89	22.15	58.74
CEF-CS8	32.4	17.4 to 32.4	81.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CEF-CS9	32.9	17.9 to 32.9	82.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CEF-CS10	32.7	17.7 to 32.7	82.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Monitoring Well Identification	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	TOC Elevation (ft msl)*	October 4, 1999		March 7, 2000		September 27, 2000		March 7, 2001	
				Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)	Depth to Water (ft btoc)	Water Level Elevation (ft msl)
CEF-CS1A	31.0	15.5 to 30.5	81.30	25.05	56.25	25.98	55.32	28.49	52.81	30.29	51.01
CEF-CS2	29.5	14.0 to 29.0	83.54	27.33	56.21	28.28	55.26	30.77	52.77	31.91	51.63
CEF-CS3	32.0	16.5 to 31.5	80.98	24.84	56.14	25.82	55.16	28.26	52.72	30.07	50.91
CEF-CS4	29.5	14.0 to 29.0	79.88	23.79	56.09	24.80	55.08	27.19	52.69	29.02	50.86
CEF-CS5	33.0	17.5 to 32.5	80.66	24.33	56.33	25.35	55.31	27.77	52.89	29.6	51.06
CEF-CS6	53.5	48.0 to 53.0	81.59	25.37	56.22	26.33	55.26	28.78	52.81	30.59	51.00
CEF-CS7	29.9	19.0 to 29.0	80.89	24.84	56.05	25.81	55.08	28.27	52.62	DRY	<50.99
CEF-CS8	32.4	17.4 to 32.4	81.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CEF-CS9	32.9	17.9 to 32.9	82.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CEF-CS10	32.7	17.7 to 32.7	82.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1
Groundwater Elevation and Monitoring Well Construction Data

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Total Well Depth (ft bgs)	Screened Interval (ft bgs)	TOC Elevation (ft msl)*	March 12, 2009	
				Depth to Water (ft btoc)	Water Level Elevation (ft msl)
CEF-CS1A	31.0	15.5 to 30.5	81.30	NM	NM
CEF-CS2	29.5	14.0 to 29.0	83.54	26.34	57.20
CEF-CS3	32.0	16.5 to 31.5	80.98	23.85	57.13
CEF-CS4	29.5	14.0 to 29.0	79.88	22.82	57.06
CEF-CS5	33.0	17.5 to 32.5	80.66	23.38	57.28
CEF-CS6	53.5	48.0 to 53.0	81.59	24.36	57.23
CEF-CS7	29.9	19.0 to 29.0	80.89	23.85	57.04
CEF-CS8	32.4	17.4 to 32.4	81.75	24.5	57.25
CEF-CS9	32.9	17.9 to 32.9	82.31	25.1	57.21
CEF-CS10	32.7	17.7 to 32.7	82.09	24.91	57.18

NM = Not measured
N/A = Not applicable
msl = Mean sea level
bgs = Below ground surface
msl = Mean sea level

ft msl = feet above mean sea level
btoc = below top of casing
TOC = top of casing

Table 2
Summary of Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	CEF-CS1AR (source)		Perimeter Wells				Cleanup Criteria[1]	
	Sample	Duplicate	CEF-CS3	CEF-CS6	CEF-CS8	CEF-CS10	GCTL[2]	Action Levels (End of Year 4)
VOCs (USEPA Method 8260B) (µg/L)								
Benzene[3]	0.72 J	0.63 J	0.4 U	0.4 U	0.4 U	0.4 U	1	1
Isopropyl benzene	**10.6**	**10.2**	0.20 U	0.20 U	0.20 U	**2.4**	0.8	NE
Ethylbenzene	27.2	26.7	0.43 U	0.43 U	0.43 U	0.43 U	30	NA
Toluene	2.9	2.8	0.35 U	0.35 U	0.35 U	0.35 U	40	NA
Total Xylenes	**48.4**	**47.2**	1.2 U	1.2 U	1.2 U	1.2 U	20	NA
1,3,5-Trimethylbenzene[3]	**22.3**	**22.7**	0.20 U	0.20 U	0.20 U	0.20 U	10	12
1,2,4-Trimethylbenzene[3]	**98.5**	**97.4**	0.22 U	0.22 U	0.22 U	3.5	10	20
PAHs (USEPA Method 8270C SIM) (µg/L)								
1-Methylnaphthalene[3]	26.1	27.8	0.24 U	0.24 U	0.24 U	6.9	28	30
2-Methylnaphthalene[3]	24.5	24.8	0.24 U	0.24 U	0.24 U	5.2	28	30
Naphthalene[3]	**29.9**	**31.9**	0.24 U	0.24 U	0.24 U	4.3	14	15

[1] Action levels based on the NAMPAO.
[2] GCTL as defined by Chapter 62-777, F.A.C., Table I (as amended April 2005).
[3] COC per NAMPAO
U = Not detected in excess of laboratory method detection limit.
GCTL = Groundwater Cleanup Target Level.

NS = Not sampled.
NE = Not established.
NA = No value presented in the current NAMPAO.
J - Estimated value.
Bold font indicates a GCTL exceedance.

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS1A (Source)[2]									
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Aug-98	Nov-98	Feb-99	Oct-99	Mar-00	Mar-00	Sep-00	Mar-01	Oct-02	Oct-02
VOCs (µg/L)																
Benzene[3]	1	3	2	1	1 U	1 U	**16**	**14**	**13**	**16.9**	**16.6**	**16.6**	**42**	**39**	1.0	**1.2**
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	**44**	**31**	**34**	**43.2**	**31.2**	**31.2**	**31**	**50**	28.0	**30.2**
Toluene	40	NE	NE	NE	NE	NE	7.1	3.5	1.8	3.4	2.1	2.1	6	8.9	ND	0.61
Total Xylenes	20	NE	NE	NE	NE	NE	**115**	**63**	**33**	**80.4**	**38.4**	**38.4**	**39**	**53**	16.2	16.3
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PAHs[2] (µg/L)																
Naphthalene[3]	14	30	25	20	15	14 U	**52**	**75**	**39**	16	**29.5**	16.8	**34**	**61**	**34.5**	**33.5**
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	**45**	**87**	**31**	**27**	**37.2**	**20.3**	**20**	**32**	**62.4**	**62.2**
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	**75**	**59**	**42**	17	**33.1**	19.6	18	**38**	**58.7**	**57.5**

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS1A (Source)[2]									CEF-CS2
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Apr-03	Jan-05	Mar-06	Sep-06	Feb-07	Aug-07	Feb-08	Mar-09	Mar-09 Dup	Oct-99
VOCs (µg/L)																
Benzene[3]	1	3	2	1	1 U	1 U	ND	**1.5**	0.745 J	**1.4**	**2.0**	0.8 J	**1.6**	0.72 J	0.63 J	ND
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	**11**	NS	NS	NS	**24**	**16**	**10.6**	**10.2**	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	10.6	22	0.8	19.4	NS	26	30	27.2	26.7	ND
Toluene	40	NE	NE	NE	NE	NE	0.56	0.73	23	0	NS	0.20 U	0.76 J	2.9	2.8	ND
Total Xylenes	20	NE	NE	NE	NE	NE	9.2	10	10.5	8.6	NS	2	7.5	**48.4**	**47.2**	ND
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	NS	**12**	1 U	1.9	3.7	0.44 J	5.7	**22.3**	**22.7**	NS
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	NS	**48**	**74.65 J**	**115**	**49.2**	**14**	**29**	**98.5**	**97.4**	NS
PAHs[2] (µg/L)																
Naphthalene[3]	14	30	25	20	15	14 U	13.4	**20**	9.05	13.5	**20.1**	**40 J**	**33**	**29.9**	**31.9**	ND
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	**30.7**	**31**	19.95	22.5	**32.8**	**81 J**	**50**	26.1	27.8	ND
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	**30.4**	**32**	19	23.4	**32.2**	**90 J**	**54**	24.5	24.8	ND

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS2	CEF-CS3 (perimeter)									
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Jan-05	Aug-98	Nov-98	Feb-99	Oct-99	Mar-00	Aug-00	Mar-01	Oct-02	Apr-03
VOCs (µg/L)																	
Benzene[3]	1	3	2	1	1 U	1 U	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Toluene	40	NE	NE	NE	NE	NE	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
Total Xylenes	20	NE	NE	NE	NE	NE	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS
PAHs[2] (µg/L)																	
Naphthalene[3]	14	30	25	20	15	14 U	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS3 (perimeter)							CEF-CS4	CEF-CS5	CEF-CS6
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Apr-03	Mar-06	Sep-06	Feb-07	Aug-07	Feb-08	Mar-09	Jan-05	Jan-05	Jan-05
VOCs (µg/L)																
Benzene[3]	1	3	2	1	1 U	1 U	ND	0.5 U	0.2 U	0.5 U	0.2 U	0.20 U	0.4 U	ND	ND	ND
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	NS	NS	NS	0.1 U	0.36 U	0.20 U	NS	NS	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	ND	0.5 U	0.3 U	NS	0.3 U	0.20 U	0.43 U	ND	ND	ND
Toluene	40	NE	NE	NE	NE	NE	ND	0.5 U	0.2 U	NS	0.2 U	0.14 U	0.35 U	ND	ND	ND
Total Xylenes	20	NE	NE	NE	NE	NE	ND	0.5 U	0.3 U	NS	0.3 U	0.72 U	1.2 U	ND	ND	ND
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	NS	1 U	0.2 U	1 U	0.2 U	0.42 U	0.20 U	ND	ND	ND
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	NS	1 U	0.6	1 U	0.2 U	0.40 U	0.22 U	ND	ND	ND
PAHs[2] (µg/L)																
Naphthalene[3]	14	30	25	20	15	14 U	ND	0.97 U	0.02 U	0.95 U	0.05 U	0.070 J	0.24 U	ND	ND	ND
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	0.49 U	0.02 U	0.48 U	0.03 U	0.037 U	0.24 U	ND	ND	ND
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	0.49 U	0.02 U	0.48 U	0.03 U	0.038 U	0.24 U	ND	ND	ND

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS6	CEF-CS7 (perimeter)[2]								
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Mar-09	Aug-98	Nov-98	Feb-99	Oct-99	Mar-00	Sep-00	Mar-01	Oct-02	Apr-03
VOCs (µg/L)																
Benzene[3]	1	3	2	1	1 U	1 U	0.4 U	ND	ND	ND	ND	ND	ND	NS	ND	ND
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	0.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	0.43 U	ND	ND	ND	ND	ND	ND	NS	ND	ND
Toluene	40	NE	NE	NE	NE	NE	0.35 U	ND	ND	ND	ND	ND	ND	NS	ND	ND
Total Xylenes	20	NE	NE	NE	NE	NE	1.2 U	1.2	ND	ND	ND	ND	ND	NS	ND	ND
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	0.20 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	0.22 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
PAHs[2] (µg/L)																
Naphthalene[3]	14	30	25	20	15	14 U	0.24 U	ND	ND	ND	ND	ND	ND	NS	ND	ND
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	0.24 U	ND	ND	ND	ND	ND	ND	NS	ND	ND
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	0.24 U	ND	ND	ND	ND	ND	ND	NS	ND	ND

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS7	CEF-CS8							CEF-CS9	CEF-CS10
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Jan-05	Jan-05	Mar-06	Sep-06	Feb-07	Aug-07	Feb-08	Mar-09	Jan-05	Jan-05
VOCs (µg/L)																
Benzene[3]	1	3	2	1	1 U	1 U	ND	ND	0.5 U	0.2 U	0.5 U	0.2 U	0.20 U	0.4 U	ND	ND
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	NS	NS	NS	NS	0.1 U	0.36 U	0.20 U	NS	NS
Ethylbenzene	30	NE	NE	NE	NE	NE	ND	ND	0.5 U	0.3 U	NS	0.3 U	0.20 U	0.43 U	ND	ND
Toluene	40	NE	NE	NE	NE	NE	ND	ND	0.5 U	0.2 U	NS	0.2 U	0.14 U	0.35 U	ND	ND
Total Xylenes	20	NE	NE	NE	NE	NE	ND	ND	0.5 U	0.3 U	NS	0.3 U	0.72 U	1.2 U	ND	ND
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	ND	ND	0.5 U	0.2 U	1 U	0.2 U	0.42 U	0.20 U	ND	ND
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	ND	ND	0.5 U	0.6	1 U	0.2 U	0.40 U	0.22 U	ND	ND
PAHs[2] (µg/L)																
Naphthalene[3]	14	30	25	20	15	14 U	ND	ND	1 U	0.02 U	0.97 U	0.05 U	0.061 J	0.24 U	ND	ND
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	ND	0.52 U	0.02 U	0.49 U	0.02 U	0.039 U	0.24 U	ND	ND
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	ND	ND	0.52 U	0.02 U	0.49 U	0.02 U	0.040 U	0.24 U	ND	ND

Table 3
Summary of Historical Detections in Groundwater

4th Year Annual Groundwater Monitoring Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	FDEP GCTL[1] (µg/L)	Action Level Objectives					CEF-CS10				
		End of Year 1 (2006)	End of Year 2 (2007)	End of Year 3 (2008)	End of Year 4 (2009)	End of Year 5 (2010)	Mar-06	Sep-06	Feb-07	Feb-08	Mar-09
VOCs (µg/L)											
Benzene[3]	1	3	2	1	1 U	1 U	0.5 U	0.2 U	0.5 U	0.20 U	0.4 U
Isopropyl benzene	0.8	NE	NE	NE	NE	NE	NS	NS	NS	0.36 U	**2.4**
Ethylbenzene	30	NE	NE	NE	NE	NE	0.5 U	0.3 U	NS	0.20 U	0.43 U
Toluene	40	NE	NE	NE	NE	NE	0.5 U	0.2 U	NS	0.14 U	0.35 U
Total Xylenes	20	NE	NE	NE	NE	NE	0.5 U	0.3 U	NS	0.72 U	1.2 U
1,3,5-Trimethylbenzene[3]	10	15	14	13	12	10 U	0.5 U	0.2 U	1 U	0.42 U	0.20 U
1,2,4-Trimethylbenzene[3]	10	50	40	30	20	10 U	0.5 U	0.6	1 U	0.40 U	0.22 U
PAHs[2] (µg/L)											
Naphthalene[3]	14	30	25	20	15	14 U	0.5 U	0.06	0.95 U	0.063 J	0.24 U
1-Methylnaphthalene[3]	28	33	32	31	30	28 U	0.5 U	0.35	0.48 U	0.037 U	0.24 U
2-Methylnaphthalene[3]	28	33	32	31	30	28 U	0.5 U	0.28	0.48 U	0.038 U	0.24 U

[1] GCTLs as defined in Chapter 62-777, F.A.C.
[2] May 1998 to February 1999, USEPA Method 625; October 1999 to March 2000; USEPA Method 8310; September 2000- March 2009, USEPA Method 8270C.
[3] COC per NAMPAO

Bold indicates GCTL exceedance.
ND = Not detected
NA = Not applicable
NS = Not sampled
I = Value between laboratory method detection limit and laboratory practical quantitation limit
NE = No value established in current approval order (October 2005)
J = Estimated value
U = Not detected in excess of laboratory method detection limit.

Table 4
Summary of Sample Results in Soil

Supplemental Soil Sampling Report - March 2009
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Sample Location CEF-OCS-	FDEP SCTL			SBCS01AR		SB02	SB03		SB04		SB06
Depth (ft bls)	Industrial	Residential	Leachability	22	26	22	20	24	16	28	23
Volatile Organics (µg/kg)											
1,1,1-TRICHLOROETHANE	3,900,000	730,000	1,900	0.78 U	0.78 U	0.8 U	0.79 U	0.82 U	0.81 U	0.79 U	0.82 U
1,1,2,2-TETRACHLOROETHANE	1,200	700	10	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-TRICHLOROETHANE	2,000	1,400	30	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
1, 2, 4-TRIMETHYLBENZENE	18,000	95,000	300	0.70 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	**345**	**1.2**
1, 3, 5-TRIMETHYLBENZENE	15,000	80,000	300	0.70 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	**168**	0.74 U
1,1-DICHLOROETHANE	2,100,000	390,000	400	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	1.4 U	1.5 U
1,1-DICHLOROETHENE	510,000	95,000	60	0.92 U	0.92 U	0.95 U	0.93 U	0.97 U	0.96 U	0.94 U	0.97 U
1,2-DICHLOROETHANE	700	500	10	0.78 U	0.78 U	0.8 U	0.79 U	0.82 U	0.81 U	0.79 U	0.82 U
1,2-DICHLOROPROPANE	900	600	30	0.99 U	0.99 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	110,000,000	16,000,000	17,000	5.9 U	5.9 U	6 U	6 U	6.2 U	6.1 U	6 U	6.2 U
2-HEXANONE	130,000	24,000	1400	3.5 U	3.5 U	3.6 U	3.6 U	3.7 U	3.7 U	3.6 U	3.7 U
4-METHYL-2-PENTANONE	44,000,000	4,300,000	NA	4.5 U	4.5 U	4.7 U	4.6 U	4.8 U	4.7 U	4.6 U	4.8 U
ACETONE	68,000,000	11,000,000	2,500	18 U	18 U	18 U	18 U	19 U	18 U	22.6 J	19 U
BENZENE	1,700	1,200	7	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
BROMODICHLOROMETHANE	2,200	1,500	4	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
BROMOFORM	93,000	48,000	30	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
BROMOMETHANE	16,000	3,100	50	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
CARBON DISULFIDE	1,500,000	270,000	5,600	0.78 U	0.78 U	0.8 U	0.79 U	0.82 U	0.81 U	0.79 U	0.82 U
CARBON TETRACHLORIDE	700	500	40	0.99 U	0.99 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	650,000	120,000	1,300	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
CHLORODIBROMOMETHANE	2,300	1,500	NA	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
CHLOROETHANE	5,400	3,900	60	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	1.4 U	1.5 U
CHLOROFORM	600	400	400	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U	1.3 U
CHLOROMETHANE	5,700	4,000	10	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U
CIS-1,2-DICHLOROETHENE	180,000	33,000	400	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
CIS-1,2-DICHLOROETHYLENE	180,000	33,000	400	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
CIS-1,3-DICHLOROPROPENE	2,200	1,400	2	0.92 U	0.92 U	0.95 U	0.93 U	0.97 U	0.96 U	0.94 U	0.97 U
DIBROMOCHLOROMETHANE	1,500	2,300	3	0.70 U	0.70 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
ETHYLBENZENE	9,200,000	1,500,000	600	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	**10.8**	0.74 U

Table 4
Summary of Sample Results in Soil

Supplemental Soil Sampling Report - March 2009
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Sample Location CEF-OCS-	SCTL			SBCS01AR		SB02	SB03		SB04		SB06
Depth (ft bls)	Industrial	Residential	Leachability	22	26	22	20	24	16	28	23
Volatile Organics (µg/kg)											
ISOPROPYL BENZENE	220,000	1,200,000	200	0.78 U	0.78 U	0.80 U	0.79 U	0.82 U	0.81 U	**40.5**	0.82 U
METHYL TERT-BUTYL ETHER	24,000,000	4,400,000	90	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
METHYLENE CHLORIDE	26,000	17,000	20	**8.7**	**8.3**	**8.2**	**7.8**	6.9 J	6.5 J	5.2 J	4.6 J
STYRENE	23,000,000	3,600,000	3,600	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
TETRACHLOROETHENE	18,000	8,800	30	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
TETRACHLOROETHYLENE	9,300	6,400	30	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
TOLUENE	60,000,000	7,500,000	500	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
TOTAL XYLENES	700,000	130,000	200	2 U	2 U	2.1 U	2.1 U	2.2 U	2.1 U	**18.4**	2.2 U
TRANS-1,2-DICHLOROETHYLENE	290,000	53,000	700	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
TRANS-1,2-DICHLOROETHENE	290,000	53,000	700	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	0.7 U	0.71 U	0.73 U	0.72 U	0.74 U	0.74 U	0.72 U	0.74 U
TRICHLOROETHENE	9,300	6,400	30	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
TRICHLOROETHYLENE	18,000	,8800	30	0.85 U	0.85 U	0.87 U	0.86 U	0.89 U	0.88 U	0.86 U	0.89 U
VINYL CHLORIDE	800	200	7	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U
PAHs (µg/kg)											
1-METHYLNAPHTHALENE	1,800,000	200,000	3,100	37 U	37 U	38 U	36 U	38 U	36 U	**3770**	39 U
2-METHYLNAPHTHALENE	2,100,000	210,000	8,500	37 U	37 U	38 U	36 U	38 U	36 U	**4070**	39 U
ACENAPHTHENE	20,000,000	2,400,000	2,100	73 U	74 U	76 U	73 U	76 U	72 U	78 U	77 U
ACENAPHTHYLENE	20,000,000	1,800,000	27,000	73 U	74 U	76 U	73 U	76 U	72 U	**79.5 J**	77 U
ANTHRACENE	300,000,000	21,000,000	2,500,000	37 U	37 U	38 U	36 U	38 U	36 U	39 U	39 U
BENZO(A)ANTHRACENE	NA	NA	800	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
BENZO(A)PYRENE	700	100	8,000	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
BENZO(B)FLUORANTHENE	NA	NA	2,400	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
BENZO(G,H,I)PERYLENE	52,000,000	2,500,000	32,000,000	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
BENZO(K)FLUORANTHENE	NA	NA	24,000	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
CHRYSENE	NA	NA	77,000	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
DIBENZO(A,H)ANTHRACENE	NA	NA	700	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
FLUORANTHENE	59,000,000	3,200,000	1,200,000	37 U	37 U	38 U	36 U	38 U	36 U	39 U	39 U
FLUORENE	33,000,000	2,600,000	160,000	73 U	74 U	76 U	73 U	76 U	72 U	78 U	77 U

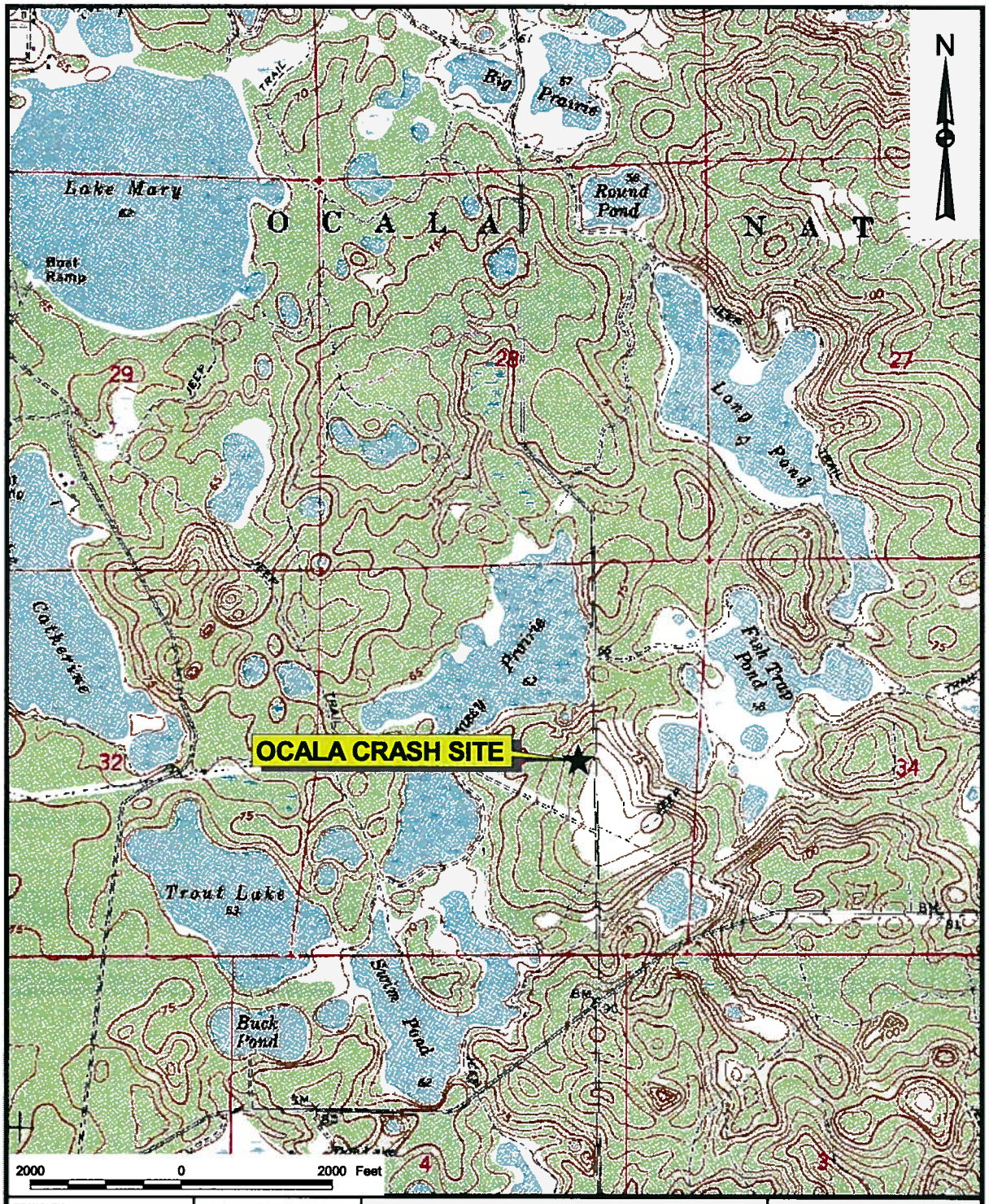
Table 4
Summary of Sample Results in Soil

Supplemental Soil Sampling Report - March 2009
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Sample Location CEF-OCS-	SCTL			SBCS01AR		SB02	SB03		SB04		SB06
Depth (ft bls)	Industrial	Residential	Leachability	22	26	22	20	24	16	28	23
PAHs (µg/kg) [continued]											
INDENO(1,2,3-CD)PYRENE	NA	NA	6,600	15 U	15 U	15 U	15 U	15 U	14 U	16 U	15 U
NAPHTHALENE	300,000	55,000	1200	37 U	37 U	38 U	36 U	38 U	36 U	**331**	39 U
PHENANTHRENE	36,000,000	2,200,000	250,000	37 U	37 U	38 U	36 U	38 U	36 U	39 U	39 U
PYRENE	45,000,000	2,400,000	880,000	37 U	37 U	38 U	36 U	38 U	36 U	39 U	39 U
Miscellaneous Parameters (mg/kg)											
TOTAL ORGANIC CARBON	NA	NA	NA	677 I	NS	NS	645 I	NS	NS	NS	NS

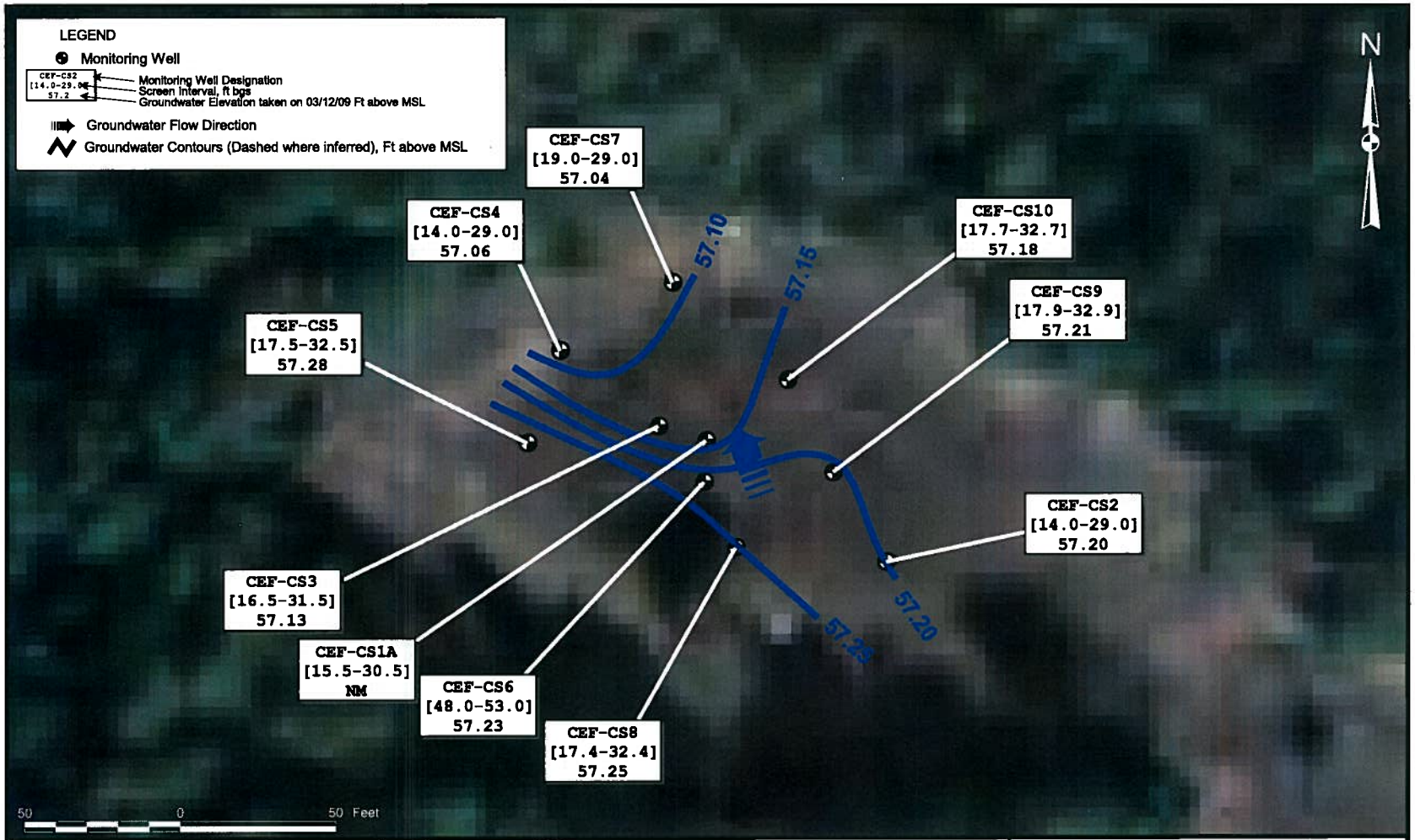
FDEP SCTL = FDEP Soil Cleanup Target Levels.
I = Value between laboratory method detection limit and laboratory practical quantitation limit
J = Estimated value
U = Not detected in excess of laboratory method detection limit.
NA = Not criteria for this constituent
NS = Not sampled
Bolded values were detected in excess of the laboratory method detection limit but less than the FDEP SCTL.
Bolded and shaded values exceeded the leachability FDEP SCTL.

FIGURES



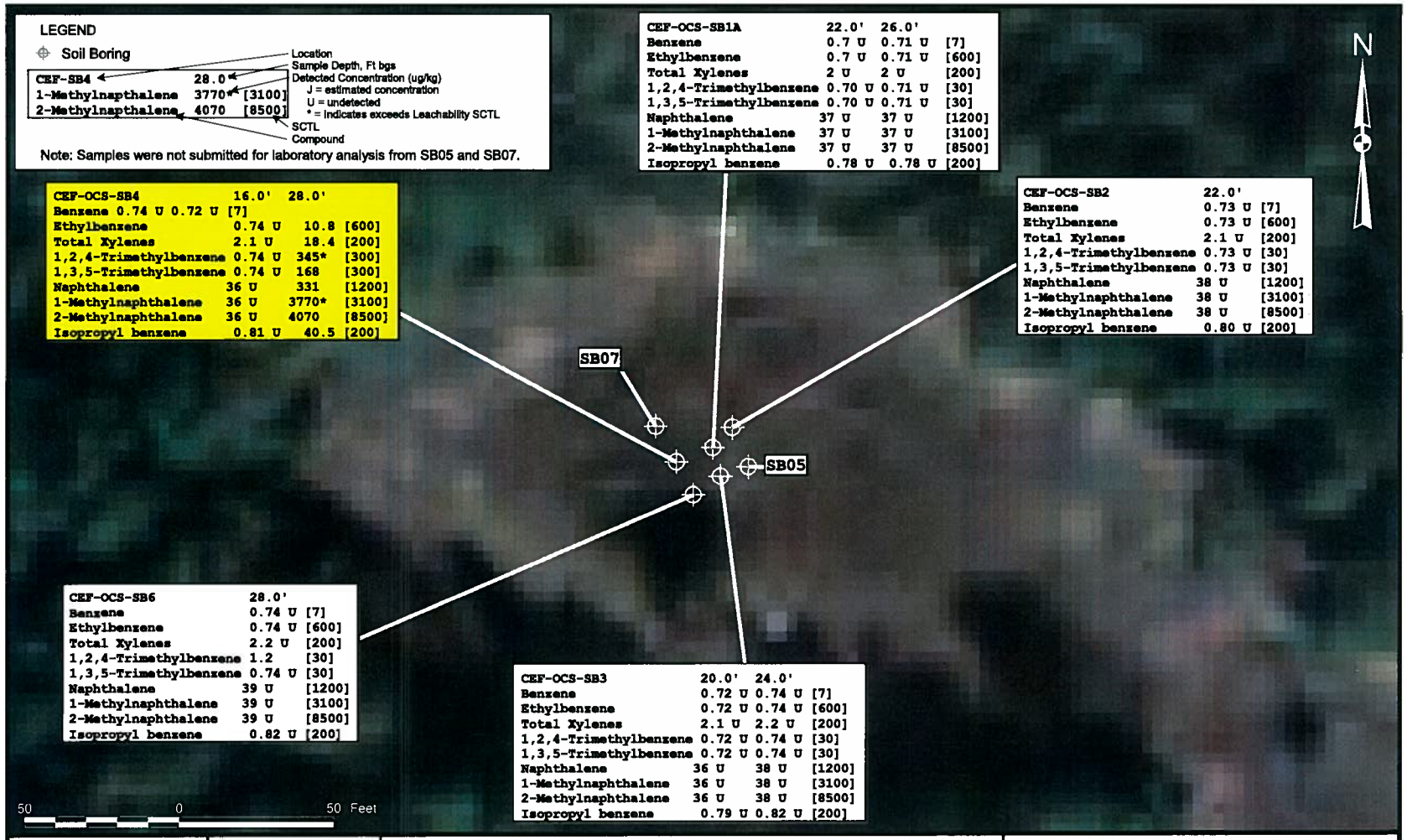
DRAWN BY MJJ	DATE 19Apr09	SITE LOCATION MAP OCALA F-18 CRASH SITE OCALA NATIONAL FOREST NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 4093
CHECKED BY	DATE		APPROVED BY / DATE
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

P:\GIS\NAS_CecilField\Ocala.apr 16Sept09 MJJ Layout0



MJJ	DATE 19Apr09	GROUNDWATER ELEVATION MAP MARCH 12, 2009 OCALA F-18 CRASH SITE OCALA NATIONAL FOREST NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 4093
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV 0

P:\GIS\NAS_CecilField\Ocala.apr 06Oct09 MJJ Layout1



DRAWN BY	DATE
MJJ	19Apr09
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	AS NOTED

NAVFAC

SOIL SAMPLING RESULTS MARCH 11, 2009

OCALA F-18 CRASH SITE

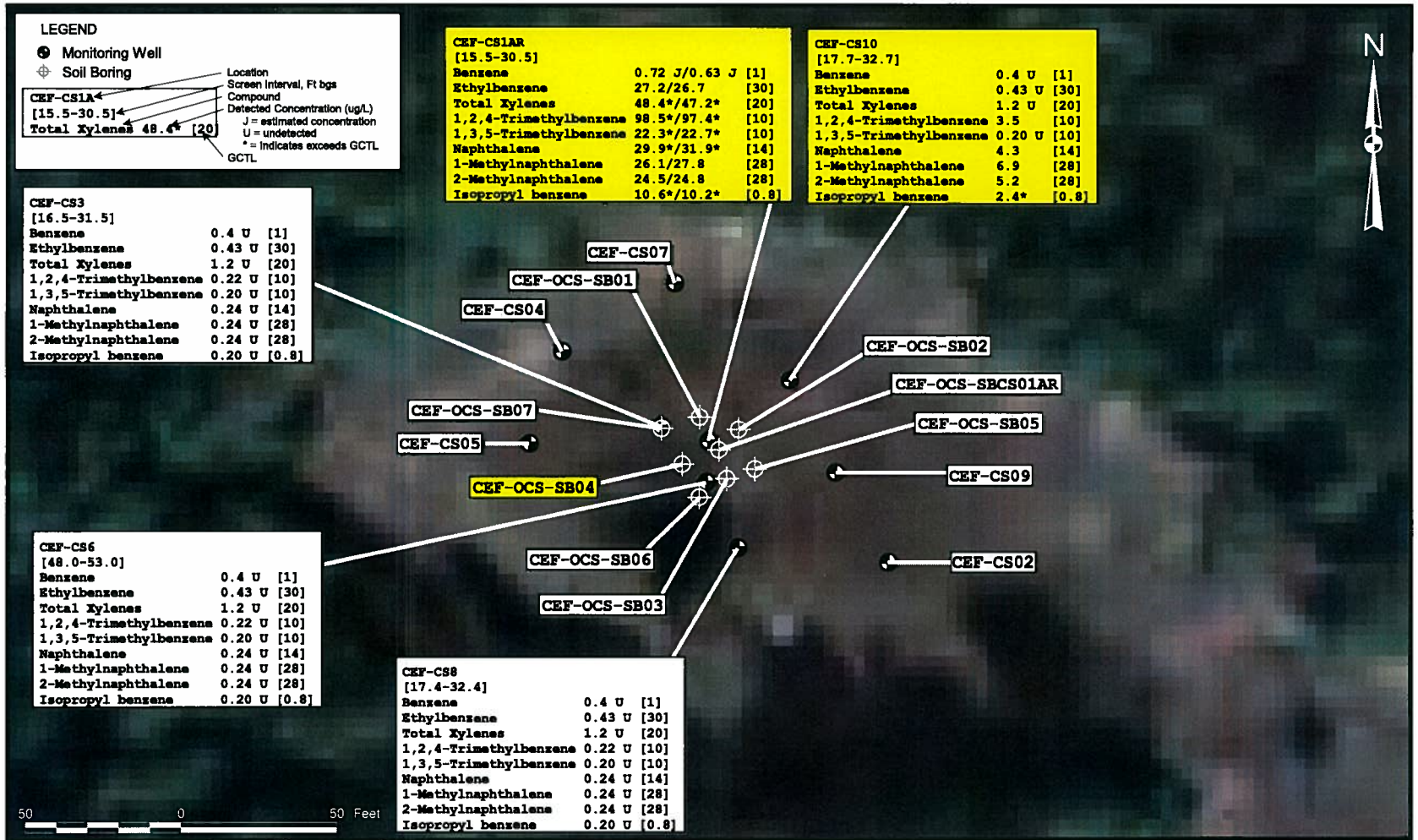
OCALA NATIONAL FOREST

NAVAL AIR STATION CECIL FIELD

JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
4093	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 3	REV 0

P:\GIS\NAS_Cecil Field\Ocala.apr 06Oct09 MJJ Layout3



DRAWN BY	DATE
MJJ	19Apr09
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	AS NOTED

NAVFAC

GROUNDWATER SAMPLING RESULTS MARCH 12, 2009

OCALA F-18 CRASH SITE

OCALA NATIONAL FOREST

NAVAL AIR STATION CECIL FIELD

JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
4093	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 4	REV 0

P:\GIS\NAS_CecilField\Ocala.apr 06Oct09 MJJ Layout2

ATTACHMENT A

NATURAL ATTENUATION MONITORING PLAN APPROVAL ORDER

115-152

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

October 21, 2005

Commanding Officer
Attn: Mr. Gabe Magwood
Code ES24 (UST RPM)
Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-9010

RE: Supplemental Site Assessment Letter Report, Ocala F-18 Crash Site, Naval Air Station Cecil Field, Florida

Dear Mr. Magwood:

I have completed the review of the Supplemental Site Assessment Letter Report, Ocala F-18 Crash Site, Naval Air Station Cecil Field, dated August 3, 2005 (received August 5, 2005), prepared and submitted by Tetra Tech NUS, Inc. While the site is associated with Naval Air Station Cecil Field, the physical location of the site is within the Ocala National Forest. Based upon my review, the enclosed Natural Attenuation Monitoring Plan Approval Order (NAMPAO) was signed by Mr. Doug Jones, Chief, Bureau of Waste Cleanup.

If I can be of any further assistance with this matter, please contact me at (850) 245-8997.

Sincerely,

David P. Grabka

David P. Grabka, P.G.
Remedial Project Manager

14 October 2005
Date

DAVID P. GRABKA
LICENSE
NO. 2192
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST

cc: Mark Davidson, SouthDiv, Charleston
Mike Fitzsimmons, FDEP, Northeast District
Doyle Brittain, USEPA Region 4

JJC JJC ESN for JJC

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee. Florida 32399-2400

Colleen M. Castille
Secretary

October 21, 2005

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Commanding Officer
Attn: Mr. Gabe Magwood
Code ES24 (UST RPM)
Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Subject: Natural Attenuation Monitorina Plan Approval Order
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Ocala National Forest
Marion County

Dear Mr. Magwood:

The Bureau of Waste Cleanup has reviewed the Supplemental Site Assessment Letter Report and Natural Attenuation Monitoring Plan dated August 3, 2005 (received August 5, 2005), prepared and submitted by Tetra Tech NUS, Inc. for the petroleum product discharge discovered at this site. Pursuant to paragraph 62-770.690(5)(a), Florida Administrative Code (F.A.C.), the Florida Department of Environmental Protection (Department) approves the Natural Attenuation Monitoring Plan. Pursuant to rule 62-770.690(8), F.A.C., you are required to complete the monitoring program outlined'below. The first sampling event must be performed within 60 days of receipt of this Natural Attenuation Monitoring Plan Approval Order (Order). Water-level measurements must be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody record form, cumulative summary tables as required by subparagraph 62-770.600(8)(a)25., F.A.C. (updated as applicable), site map(s) that illustrate the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), must be submitted to the Department within 60 days of sample collection.

The monitoring wells to be sampled, the sampling parameters, and the sampling frequency for the first year are as follows:

Monitoring Wells	Contaminants of Concern	Frequency	Duration
CEF-CS1A; CEF-CS3; and CEF-CS-10	VOCs, PAHs	Semi-Annually	One year
CEF-CS8	PAHs		

The approved Remedial Action by Natural Attenuation monitoring period is five years. The sampling frequency will be evaluated following the submittal of the first annual report to determine whether semiannual or annual sampling may be appropriate.

The following are the expected annual reductions of concentrations of petroleum products' contaminants concern in monitoring wells that will be used for annual evaluation of remediation progress by natural attenuation. If the annual rate of expected cleanup progress is not achieved, then the monitoring report must include a proposal pursuant to paragraph 62-770.690(8)(f), F.A.C.:

	CEF-CS1A		CEF-CS1A
Benzene		Naphthalene	
End of year 1	3 µg/L	End of year 1	30 µg/L
End of year 2	2 µg/L	End of year 2	25 µg/L
End of year 3	1 µg/L	End of year 3	20 µg/L
End of year 4	<1 µg/L	End of year 4	15 µg/L
End of year 5	<1 µg/L	End of year 5	<14 µg/L
1,3,5-Trimethylbenzene		1-Methyl naphthalene	
End of year 1	15 µg/L	End of year 1	33 µg/L
End of year 2	14 µg/L	End of year 2	32 µg/L
End of year 3	13 µg/L	End of year 3	31 µg/L
End of year 4	12 µg/L	End of year 4	30 µg/L
End of year 5	<10 µg/L	End of year 5	<28 µg/L
1,2,4-Trimethylbenzene		2-Methyl naphthalene	
End of year 1	50 µg/L	End of year 1	33 µg/L
End of year 2	40 µg/L	End of year 2	32 µg/L
End of year 3	30 µg/L	End of year 3	31 µg/L
End of year 4	20 µg/L	End of year 4	30 µg/L
End of year 5	<10 µg/L	End of year 5	<28 µg/L

If concentrations of contaminants of concern in any of the designated wells increase above the action levels listed below, the well or wells must be resampled no later than 30 days after the initial positive results are known. If the results of the resampling confirm the initial sampling results, then the monitoring report referenced in paragraph 62-770.690(8)(d), F.A.C., must be signed and sealed by an appropriate registered professional pursuant to rule 62-770.490, F.A.C., and must include a proposal as described in paragraph 62-770.690(8)(e), F.A.C.

Contaminated wells:

CEF-CS1A: 100 µg/L Benzene; 100 µg/L 1,3,5-Trimethylbenzene; 100 µg/L 1,3,5-Trimethylbenzene ; 140 µg/L Naphthalene; 280 µg/L 1-Methylnaphthalene; 280 µg/L 2-Methylnaphthalene.

CEF-CS8: 5 µg/L Benzo(a)anthracene; 5 µg/L Benzo(b)fluoranthene.

Perimeter well[s] (temporary point[s] of compliance):

CEF-CS3 abd CEF-CS10: 1 µg/L Benzene; 10 pgIL 1,3,5-Trimethylbenzene; 10 µg/L 1,3,5-Trimethylbenzene ; 14 pgIL Naphthalene; 28 µg/L 1-Methylnaphthalene; 28 µg/L 2-Methylnaphthalene.

If the applicable No Further Action criteria of rule 62-770.680, F.A.C., are met for two consecutive sampling events, a Site Rehabilitation Completion Report with a No Further Action Proposal, that summarizes the monitoring program and contains documentation to support the opinion that the cleanup objectives have been achieved, must be submitted as required in subsection 62-770.690(10), F.A.C. If the applicable No Further Action criteria of rule 62-770.680, F.A.C., are not met following five years of monitoring, then the monitoring report must include a proposal as described in subsection 62-770.690(8)(f), F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

Persons affected by this Order have the following options:

(A) If you choose to accept the Department's decision regarding the Supplemental Site Assessment Letter Report and Natural Attenuation Monitoring Plan you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

(B) If you choose to challenge the decision, you may do the following:

(1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or

(2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Southern Division Naval Facilities Engineering Command, shall mail a copy of the request to Southern Division Naval Facilities Engineering Command at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Southern Division Naval Facilities Engineering Command, shall mail a copy of the petition to Southern Division Naval Facilities Engineering Command at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under sections 120.569 and 120.57, F.S.

Pursuant to subsection 120.569(2), F.S. and rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
(b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under section 120.68, F.S., by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Questions

Any questions regarding the Department's review of your Supplemental Site Assessment Letter Report and Natural Attenuation Monitoring Plan should be directed

to David P. Grabka at (850) 245-8997. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 245-2242. Contact with any of the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,

Douglas A. Jones, Chief
Bureau of Waste Cleanup
Division of Waste Management

DAJ/dpg

cc: David P. Grabka, FDEP – BWC
File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Minnie S. Robinson — October 21, 2005
Clerk (or Deputy Clerk) — Date

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/01/09

Technical Report for

Tetra Tech NUS

Ocala F-18 Crash site CTO209

N4093-WR332

Accutest Job Number: F63828

Sampling Date: 03/09/09

Report to:

Tetra Tech, NUS

robin.henderson@tetratech.com

ATTN: Kara Wimble

Total number of pages in report: **210**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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

Client Service contact: Heather Wandrey 407-425-6700

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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.
A password to unlock this report is available from your client service representative.

Sections: 1 2 3 4 5 6 7 8

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Accutest Laboratories

Sample Summary

Tetra Tech NUS

Job No: F63828

Ocala F-18 Crash site CTO209
Project No: N4093-WR332

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F63828-1	03/09/09	16:20 JK	03/11/09	AQ	Ground Water	CEF-CS3-20090309
F63828-2	03/09/09	17:40 JK	03/11/09	AQ	Ground Water	CEF-CS6-20090309
F63828-3	03/09/09	00:00 JK	03/11/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F63828

Site: Ocala F-18 Crash site CTO209 **Report Date:** 3/31/2009 2:04:21 PM

2 Samples and 1 Trip Blank were collected on 03/09/2009 and were received at Accutest SE on 03/11/2009 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F63828. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VB2472

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F63819-1MS, F63819-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery for 4-Methyl-2-pentanone is outside control limits. Probable cause: due to matrix interference.

RPDs for MSD for 2-Hexanone, 4-Methyl-2-pentanone, Acetone are outside control limits for sample F63819-1MSD. Probable cause due to sample non-homogeneity.

F63828-3 for Acetone: CCV outside of control limits; results may be biased high.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP28372

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F63828-1MS, F63828-1MSD were used as the QC samples indicated.

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: March 31, 2009

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, March 31, 2009

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-CS3-20090309		
Lab Sample ID:	F63828-1	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B058983.D	1	03/19/09	AJ	n/a	n/a	VB2472
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	

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

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

Report of Analysis

Client Sample ID:	CEF-CS3-20090309		
Lab Sample ID:	F63828-1	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	117%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-CS3-20090309		
Lab Sample ID:	F63828-1	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045155.D	1	03/18/09	RB	03/16/09	OP28372	SW2293
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	77%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	88%		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-CS6-20090309		
Lab Sample ID:	F63828-2	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B058984.D	1	03/19/09	AJ	n/a	n/a	VB2472
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	2.1	1.0	0.28	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	

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

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

Report of Analysis

Client Sample ID:	CEF-CS6-20090309		
Lab Sample ID:	F63828-2	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	119%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-CS6-20090309		
Lab Sample ID:	F63828-2	**Date Sampled:**	03/09/09
Matrix:	AQ - Ground Water	**Date Received:**	03/11/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045158.D	1	03/18/09	RB	03/16/09	OP28372	SW2293
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	68%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	90%		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:	TRIP BLANK		
Lab Sample ID:	F63828-3	**Date Sampled:**	03/09/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B058985.D	1	03/19/09	AJ	n/a	n/a	VB2472
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	26.6	25	10	ug/l	J
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F63828-3	**Date Sampled:**	03/09/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.2 U	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	117%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

(a) CCV outside of control limits; results may be biased high.

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.

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TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F63828 PAGE 1 OF 1
Accutest Quote #
SKIFF#

Client / Reporting Information

Company Name: Tetra Tech NUS, Inc.
Address: 8640 Philips Hwy, Suite 1b
City: Jacksonville State: Fl Zip: 32256
Project Contact: Kara Winterle E-mail: kara.winterle@tetratech.com
Phone#: 904.636.6125
Sampler(s) Name(s) (Printed): Jeff Krome / Rick McCann

Project Information

Project Name: Ocala Fl 18 Crash Site
Street: Ocala National Forest
City: Ocala State: Fl
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	NaSO4	NaOH+ZnAc	DI Water	NaSO4	VOCs by 8260B	PAHs by 8310											Matrix Codes / LAB USE ONLY
1	CEF-CS3-20090309	3/9/09	1620	JK/RM	GW	5		X	X							X	X											
2	CEF-CS6-20090309	3/9/09	1740	JK/RM	GW	5		X	X							X	X											
3	TRIP BLANK															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 Richard D. Loss	3/10/09 0715	2 [signature] 03/10/09 9:50	3 [signature] 03/10/09 1325	3/11/09 8:50	4 [signature] Accutest 3/11/09
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2.8

F63828: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F63828 CLIENT: Tetra Tech PROJECT: Ocala

DATE/TIME RECEIVED: 3/11/09 8:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.8

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 OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA 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
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 3/11/09 TECHNICIAN SIGNATURE/DATE 3-11-09

ASPD 12/17/07

4.1 4

F63828: Chain of Custody
Page 2 of 2

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2472-MB	B058980.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

Method Blank Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2472-MB	B058980.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

Blank Spike Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2472-BS	B058979.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	94.5	76	59-134
71-43-2	Benzene	25	24.8	99	83-124
75-27-4	Bromodichloromethane	25	23.5	94	76-116
75-25-2	Bromoform	25	23.3	93	68-128
108-90-7	Chlorobenzene	25	24.5	98	87-115
75-00-3	Chloroethane	25	31.4	126	54-166
67-66-3	Chloroform	25	24.7	99	85-123
75-15-0	Carbon disulfide	25	26.2	105	67-147
56-23-5	Carbon tetrachloride	25	27.5	110	74-139
75-34-3	1,1-Dichloroethane	25	26.5	106	82-127
75-35-4	1,1-Dichloroethylene	25	25.5	102	75-133
107-06-2	1,2-Dichloroethane	25	24.4	98	76-122
78-87-5	1,2-Dichloropropane	25	24.0	96	81-120
124-48-1	Dibromochloromethane	25	24.0	96	74-116
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	81-114
10061-01-5	cis-1,3-Dichloropropene	25	24.5	98	83-119
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.2	105	87-123
100-41-4	Ethylbenzene	25	25.8	103	87-118
591-78-6	2-Hexanone	125	92.2	74	58-125
98-82-8	Isopropylbenzene	25	26.7	107	87-131
108-10-1	4-Methyl-2-pentanone	125	107	86	62-125
74-83-9	Methyl bromide	25	29.1	116	55-151
74-87-3	Methyl chloride	25	28.5	114	55-173
75-09-2	Methylene chloride	25	26.8	107	69-125
78-93-3	Methyl ethyl ketone	125	113	90	61-127
1634-04-4	Methyl Tert Butyl Ether	25	21.8	87	75-116
100-42-5	Styrene	25	23.8	95	78-118
71-55-6	1,1,1-Trichloroethane	25	26.9	108	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	21.9	88	71-120
79-00-5	1,1,2-Trichloroethane	25	23.1	92	80-114
95-63-6	1,2,4-Trimethylbenzene	25	25.3	101	82-120
108-67-8	1,3,5-Trimethylbenzene	25	26.0	104	83-123
127-18-4	Tetrachloroethylene	25	25.0	100	80-131
108-88-3	Toluene	25	23.4	94	86-116
79-01-6	Trichloroethylene	25	24.4	98	85-124

Blank Spike Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB2472-BS	B058979.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-01-4	Vinyl chloride	25	26.5	106	57-153
1330-20-7	Xylene (total)	75	79.3	106	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	76-127%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	97%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63819-1MS	B058992.D	1	03/19/09	AJ	n/a	n/a	VB2472
F63819-1MSD	B058993.D	1	03/19/09	AJ	n/a	n/a	VB2472
F63819-1	B058982.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	F63819-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	99.8	80	127	102	24*	59-134/14
71-43-2	Benzene	ND		25	25.5	102	25.6	102	0	83-124/11
75-27-4	Bromodichloromethane	ND		25	23.8	95	23.7	95	0	76-116/10
75-25-2	Bromoform	ND		25	24.0	96	26.1	104	8	68-128/11
108-90-7	Chlorobenzene	ND		25	24.9	100	25.5	102	2	87-115/9
75-00-3	Chloroethane	ND		25	30.8	123	30.7	123	0	54-166/20
67-66-3	Chloroform	ND		25	25.2	101	25.1	100	0	85-123/10
75-15-0	Carbon disulfide	ND		25	26.9	108	25.9	104	4	67-147/12
56-23-5	Carbon tetrachloride	ND		25	27.3	109	27.6	110	1	74-139/13
75-34-3	1,1-Dichloroethane	0.36	J	25	27.7	109	27.6	109	0	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	25.6	102	28.4	114	10	75-133/13
107-06-2	1,2-Dichloroethane	ND		25	25.8	103	26.0	104	1	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	25.0	100	25.3	101	1	81-120/11
124-48-1	Dibromochloromethane	ND		25	24.4	98	26.3	105	7	74-116/11
156-59-2	cis-1,2-Dichloroethylene	0.23	J	25	25.1	99	25.2	100	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.0	96	24.3	97	1	83-119/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.8	111	27.9	112	0	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.8	103	27.4	110	6	87-123/10
100-41-4	Ethylbenzene	ND		25	26.1	104	26.5	106	2	87-118/10
591-78-6	2-Hexanone	ND		125	116	93	140	112	19*	58-125/14
98-82-8	Isopropylbenzene	ND		25	27.8	111	28.1	112	1	87-131/10
108-10-1	4-Methyl-2-pentanone	ND		125	143	114	164	131*	14*	62-125/13
74-83-9	Methyl bromide	ND		25	28.3	113	28.2	113	0	55-151/21
74-87-3	Methyl chloride	ND		25	28.8	115	29.7	119	3	55-173/22
75-09-2	Methylene chloride	ND		25	27.0	108	26.7	107	1	69-125/11
78-93-3	Methyl ethyl ketone	ND		125	129	103	145	116	12	61-127/13
1634-04-4	Methyl Tert Butyl Ether	ND		25	25.3	101	27.3	109	8	75-116/10
100-42-5	Styrene	ND		25	23.2	93	23.5	94	1	78-118/11
71-55-6	1,1,1-Trichloroethane	ND		25	27.2	109	26.9	108	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.5	106	29.1	116	9	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	25.1	100	27.7	111	10	80-114/11
95-63-6	1,2,4-Trimethylbenzene	ND		25	26.0	104	25.9	104	0	82-120/10
108-67-8	1,3,5-Trimethylbenzene	ND		25	26.8	107	26.9	108	0	83-123/10
127-18-4	Tetrachloroethylene	ND		25	25.4	102	26.4	106	4	80-131/12
108-88-3	Toluene	ND		25	23.7	95	24.3	97	3	86-116/10
79-01-6	Trichloroethylene	ND		25	24.6	98	25.0	100	2	85-124/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63819-1MS	B058992.D	1	03/19/09	AJ	n/a	n/a	VB2472
F63819-1MSD	B058993.D	1	03/19/09	AJ	n/a	n/a	VB2472
F63819-1	B058982.D	1	03/19/09	AJ	n/a	n/a	VB2472

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

F63828-1, F63828-2, F63828-3

CAS No.	Compound	F63819-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-01-4	Vinyl chloride	ND		25	26.9	108	27.1	108	1	57-153/22
1330-20-7	Xylene (total)	ND		75	78.6	105	80.3	107	2	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F63819-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	108%	113%	118%	76-127%
2037-26-5	Toluene-D8	98%	101%	97%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	107%	84-120%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28372-MB	W045151.D	1	03/18/09	RB	03/16/09	OP28372	SW2293

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

F63828-1, F63828-2

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	82%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%

Method Blank Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28372-MB	W045197.D	1	03/20/09	RB	03/16/09	OP28372	SW2294

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

F63828-1, F63828-2

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	78%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

Blank Spike Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28372-BS	W045150.D	1	03/18/09	RB	03/16/09	OP28372	SW2293

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

F63828-1, F63828-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	25	17.8	71	60-94
208-96-8	Acenaphthylene	25	16.5	66	60-92
120-12-7	Anthracene	25	18.8	75	69-98
56-55-3	Benzo(a)anthracene	2.5	1.9	76	65-102
50-32-8	Benzo(a)pyrene	2.5	2.2	88	74-106
205-99-2	Benzo(b)fluoranthene	2.5	1.9	76	71-104
191-24-2	Benzo(g,h,i)perylene	2.5	1.9	76	60-104
207-08-9	Benzo(k)fluoranthene	2.5	2.0	80	70-104
218-01-9	Chrysene	2.5	1.9	76	69-104
53-70-3	Dibenzo(a,h)anthracene	2.5	2.0	80	63-107
206-44-0	Fluoranthene	25	18.8	75	70-99
86-73-7	Fluorene	25	18.7	75	62-95
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	2.1	84	63-107
90-12-0	1-Methylnaphthalene	25	17.8	71	57-94
91-57-6	2-Methylnaphthalene	25	17.1	68	58-90
91-20-3	Naphthalene	25	17.2	69	58-92
85-01-8	Phenanthrene	25	17.4	70	68-98
129-00-0	Pyrene	25	17.8	71	66-102

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63828
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28372-MS	W045156.D	1	03/18/09	RB	03/16/09	OP28372	SW2293
OP28372-MSD	W045157.D	1	03/18/09	RB	03/16/09	OP28372	SW2293
F63828-1	W045155.D	1	03/18/09	RB	03/16/09	OP28372	SW2293

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

F63828-1, F63828-2

7.3.1

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CAS No.	Compound	F63828-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.96	U	48.1	37.6	78	36.9	77	2	60-94/25
208-96-8	Acenaphthylene	0.96	U	48.1	35.7	74	34.6	72	3	60-92/24
120-12-7	Anthracene	0.96	U	48.1	41.9	87	40.8	85	3	69-98/19
56-55-3	Benzo(a)anthracene	0.19	U	4.81	4.6	96	4.4	92	4	65-102/23
50-32-8	Benzo(a)pyrene	0.19	U	4.81	5.0	104	4.8	100	4	74-106/23
205-99-2	Benzo(b)fluoranthene	0.19	U	4.81	4.6	96	4.5	94	2	71-104/24
191-24-2	Benzo(g,h,i)perylene	0.19	U	4.81	4.4	92	4.3	89	2	60-104/22
207-08-9	Benzo(k)fluoranthene	0.19	U	4.81	4.6	96	4.3	89	7	70-104/22
218-01-9	Chrysene	0.19	U	4.81	4.3	89	4.1	85	5	69-104/21
53-70-3	Dibenzo(a,h)anthracene	0.19	U	4.81	4.6	96	4.5	94	2	63-107/21
206-44-0	Fluoranthene	0.96	U	48.1	42.3	88	40.8	85	4	70-99/23
86-73-7	Fluorene	0.96	U	48.1	39.6	82	38.6	80	3	62-95/25
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	4.81	4.9	102	4.8	100	2	63-107/24
90-12-0	1-Methylnaphthalene	0.96	U	48.1	39.8	83	38.1	79	4	57-94/26
91-57-6	2-Methylnaphthalene	0.96	U	48.1	36.3	76	34.9	73	4	58-90/23
91-20-3	Naphthalene	0.96	U	48.1	36.6	76	36.0	75	2	58-92/23
85-01-8	Phenanthrene	0.96	U	48.1	39.0	81	38.2	79	2	68-98/23
129-00-0	Pyrene	0.96	U	48.1	40.5	84	39.0	81	4	66-102/25

CAS No.	Surrogate Recoveries	MS	MSD	F63828-1	Limits
4165-60-0	Nitrobenzene-d5	92%	91%	77%	42-108%
321-60-8	2-Fluorobiphenyl	85%	86%	72%	40-106%
1718-51-0	Terphenyl-d14	88%	86%	88%	39-121%

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/01/09

Technical Report for

Tetra Tech NUS

Ocala F-18 Crash site CTO209

N4093-WR332

Accutest Job Number: F63891

Sampling Date: 03/11/09

Report to:

Tetra Tech, NUS

robin.henderson@tetratech.com

ATTN: Kara Wimble

Total number of pages in report: 364

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

Client Service contact: Heather Wandrey 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.

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Accutest Laboratories

Sample Summary

Tetra Tech NUS

Job No: F63891

Ocala F-18 Crash site CTO209
Project No: N4093-WR332

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F63891-1	03/11/09	14:15 RM	03/13/09	SO	Soil	CEF-OCS-SBCS1AR-22-20090311
F63891-2	03/11/09	14:20 RM	03/13/09	SO	Soil	CEF-OCS-SBCS1AR-26-20090311
F63891-3	03/11/09	14:44 RM	03/13/09	SO	Soil	CEF-OCS-SB02-22-20090311
F63891-4	03/11/09	15:02 RM	03/13/09	SO	Soil	CEF-OCS-SB03-20-20090311
F63891-5	03/11/09	15:07 RM	03/13/09	SO	Soil	CEF-OCS-SB03-24-20090311
F63891-6	03/11/09	15:31 RM	03/13/09	SO	Soil	CEF-OCS-SB04-16-20090311
F63891-7	03/11/09	15:36 RM	03/13/09	SO	Soil	CEF-OCS-SB04-28-20090311
F63891-8	03/11/09	16:21 RM	03/13/09	SO	Soil	CEF-OCS-SB06-23-20090311
F63891-9	03/11/09	00:00 RM	03/13/09	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F63891

Site: Ocala F-18 Crash site CTO209 **Report Date:** 4/6/2009 10:57:10 AM

8 Samples and 1 Trip Blank were collected on 03/11/2009 and were received at Accutest SE on 03/13/2009 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F63891. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS by Method SW846 8260B

Matrix: SO **Batch ID:** VG2137

All samples were analyzed within the recommended method holding time.

Samples F63891-3MS, F63891-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recoverys for 1,1-Dichloroethylene, Acetone, Chlorobenzene, Ethylbenzene, Methyl bromide, Methyl ethyl ketone, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, Xylene (total) are outside control limits. Probable cause: due to matrix interference.

Matrix Spike Duplicate Recoverys for 1,1-Dichloroethylene, 2-Hexanone, Acetone, Methyl bromide, Methyl ethyl ketone are outside control limits. Probable cause: due to matrix interference.

RPD for MSD for Methyl chloride is outside control limits for sample F63891-3MSD. Probable cause due to sample non-homogeneity.

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9 for Methylene chloride: Suspected laboratory contaminant.

Extractables by GCMS by Method SW846 8270C BY SIM

Matrix: SO **Batch ID:** OP28394

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F63891-3MS, F63891-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Duplicate Recoverys for Acenaphthylene, Naphthalene are outside control limits. Probable cause: due to matrix interference.

Sample F63891-7 has surrogates outside control limits. Probable cause: due to matrix interference.

F63891-7 for Nitrobenzene-d5: Outside control limits due to matrix interference.

Wet Chemistry by Method SM19 2540B M

Matrix: SO **Batch ID:** GN34184

Sample F63871-1DUP was used as the QC sample for Solids, Percent.

Wet Chemistry by Method SW846 9060A MOD

Matrix: SO **Batch ID:** GP12742

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F63854-1DUP, F63854-1MS were used as the QC samples for Total Organic Carbon.

Monday, April 06, 2009

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: April 6, 2009

Ellen Pampel, Inorganic QA (signature on file)

Monday, April 06, 2009

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-22-20090311		
Lab Sample ID:	F63891-1	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	89.0
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056606.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.97 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	35	18	ug/kg	
71-43-2	Benzene	0.70 U	3.5	0.70	ug/kg	
75-27-4	Bromodichloromethane	0.85 U	3.5	0.85	ug/kg	
75-25-2	Bromoform	1.1 U	3.5	1.1	ug/kg	
108-90-7	Chlorobenzene	0.70 U	3.5	0.70	ug/kg	
75-00-3	Chloroethane	1.4 U	3.5	1.4	ug/kg	
67-66-3	Chloroform	1.2 U	3.5	1.2	ug/kg	
75-15-0	Carbon disulfide	0.78 U	3.5	0.78	ug/kg	
56-23-5	Carbon tetrachloride	0.99 U	3.5	0.99	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.5	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	0.92 U	3.5	0.92	ug/kg	
107-06-2	1,2-Dichloroethane	0.78 U	3.5	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	0.99 U	3.5	0.99	ug/kg	
124-48-1	Dibromochloromethane	0.70 U	3.5	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.1 U	3.5	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.92 U	3.5	0.92	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.85 U	3.5	0.85	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.70 U	3.5	0.70	ug/kg	
100-41-4	Ethylbenzene	0.70 U	3.5	0.70	ug/kg	
591-78-6	2-Hexanone	3.5 U	18	3.5	ug/kg	
98-82-8	Isopropylbenzene	0.78 U	3.5	0.78	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.5 U	18	4.5	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.5	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	3.5	1.7	ug/kg	
75-09-2	Methylene chloride [a]	8.7	7.0	3.5	ug/kg	
78-93-3	Methyl ethyl ketone	5.9 U	18	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.5	1.1	ug/kg	
100-42-5	Styrene	0.70 U	3.5	0.70	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.78 U	3.5	0.78	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.5	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.70 U	3.5	0.70	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.70 U	3.5	0.70	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-22-20090311		
Lab Sample ID:	F63891-1	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	89.0
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.70 U	3.5	0.70	ug/kg	
127-18-4	Tetrachloroethylene	0.85 U	3.5	0.85	ug/kg	
108-88-3	Toluene	0.70 U	3.5	0.70	ug/kg	
79-01-6	Trichloroethylene	0.85 U	3.5	0.85	ug/kg	
75-01-4	Vinyl chloride	1.4 U	3.5	1.4	ug/kg	
1330-20-7	Xylene (total)	2.0 U	11	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	101%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-22-20090311		
Lab Sample ID:	F63891-1	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	89.0
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045186.D	4	03/19/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	73 U	290	73	ug/kg	
208-96-8	Acenaphthylene	73 U	290	73	ug/kg	
120-12-7	Anthracene	37 U	290	37	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	29	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	29	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	29	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	29	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	29	15	ug/kg	
218-01-9	Chrysene	15 U	29	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	29	15	ug/kg	
206-44-0	Fluoranthene	37 U	290	37	ug/kg	
86-73-7	Fluorene	73 U	290	73	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	29	15	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	290	37	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	290	37	ug/kg	
91-20-3	Naphthalene	37 U	290	37	ug/kg	
85-01-8	Phenanthrene	37 U	290	37	ug/kg	
129-00-0	Pyrene	37 U	290	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	51%		40-105%
321-60-8	2-Fluorobiphenyl	46%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-22-20090311		
Lab Sample ID:	F63891-1	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
		Percent Solids:	89.0
Project:	Ocala F-18 Crash site CTO209		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	89			%	1	03/13/09	MV	SM19 2540B M
Total Organic Carbon	677 I	1100	560	mg/kg	1	04/02/09 13:52	AJC	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-26-20090311		
Lab Sample ID:	F63891-2	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	88.5
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056607.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	8.00 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	35	18	ug/kg	
71-43-2	Benzene	0.71 U	3.5	0.71	ug/kg	
75-27-4	Bromodichloromethane	0.85 U	3.5	0.85	ug/kg	
75-25-2	Bromoform	1.1 U	3.5	1.1	ug/kg	
108-90-7	Chlorobenzene	0.71 U	3.5	0.71	ug/kg	
75-00-3	Chloroethane	1.4 U	3.5	1.4	ug/kg	
67-66-3	Chloroform	1.2 U	3.5	1.2	ug/kg	
75-15-0	Carbon disulfide	0.78 U	3.5	0.78	ug/kg	
56-23-5	Carbon tetrachloride	0.99 U	3.5	0.99	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.5	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	0.92 U	3.5	0.92	ug/kg	
107-06-2	1,2-Dichloroethane	0.78 U	3.5	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	0.99 U	3.5	0.99	ug/kg	
124-48-1	Dibromochloromethane	0.71 U	3.5	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.1 U	3.5	1.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.92 U	3.5	0.92	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.85 U	3.5	0.85	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.71 U	3.5	0.71	ug/kg	
100-41-4	Ethylbenzene	0.71 U	3.5	0.71	ug/kg	
591-78-6	2-Hexanone	3.5 U	18	3.5	ug/kg	
98-82-8	Isopropylbenzene	0.78 U	3.5	0.78	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.5 U	18	4.5	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.5	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	3.5	1.7	ug/kg	
75-09-2	Methylene chloride [a]	8.3	7.1	3.5	ug/kg	
78-93-3	Methyl ethyl ketone	5.9 U	18	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.5	1.1	ug/kg	
100-42-5	Styrene	0.71 U	3.5	0.71	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.78 U	3.5	0.78	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.5	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.71 U	3.5	0.71	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.71 U	3.5	0.71	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-26-20090311		
Lab Sample ID:	F63891-2	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	88.5
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.71 U	3.5	0.71	ug/kg	
127-18-4	Tetrachloroethylene	0.85 U	3.5	0.85	ug/kg	
108-88-3	Toluene	0.71 U	3.5	0.71	ug/kg	
79-01-6	Trichloroethylene	0.85 U	3.5	0.85	ug/kg	
75-01-4	Vinyl chloride	1.4 U	3.5	1.4	ug/kg	
1330-20-7	Xylene (total)	2.0 U	11	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	102%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SBCS1AR-26-20090311		
Lab Sample ID:	F63891-2	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	88.5
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045187.D	4	03/19/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	74 U	300	74	ug/kg	
208-96-8	Acenaphthylene	74 U	300	74	ug/kg	
120-12-7	Anthracene	37 U	300	37	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	30	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	30	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	30	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	30	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	30	15	ug/kg	
218-01-9	Chrysene	15 U	30	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	30	15	ug/kg	
206-44-0	Fluoranthene	37 U	300	37	ug/kg	
86-73-7	Fluorene	74 U	300	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	30	15	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	300	37	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	300	37	ug/kg	
91-20-3	Naphthalene	37 U	300	37	ug/kg	
85-01-8	Phenanthrene	37 U	300	37	ug/kg	
129-00-0	Pyrene	37 U	300	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		40-105%
321-60-8	2-Fluorobiphenyl	61%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

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-OCS-SB02-22-20090311		
Lab Sample ID:	F63891-3	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	88.4
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056603.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.76 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	36	18	ug/kg	
71-43-2	Benzene	0.73 U	3.6	0.73	ug/kg	
75-27-4	Bromodichloromethane	0.87 U	3.6	0.87	ug/kg	
75-25-2	Bromoform	1.1 U	3.6	1.1	ug/kg	
108-90-7	Chlorobenzene	0.73 U	3.6	0.73	ug/kg	
75-00-3	Chloroethane	1.5 U	3.6	1.5	ug/kg	
67-66-3	Chloroform	1.2 U	3.6	1.2	ug/kg	
75-15-0	Carbon disulfide	0.80 U	3.6	0.80	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.6	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.6	1.5	ug/kg	
75-35-4	1,1-Dichloroethylene	0.95 U	3.6	0.95	ug/kg	
107-06-2	1,2-Dichloroethane	0.80 U	3.6	0.80	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.6	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.73 U	3.6	0.73	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.6	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.95 U	3.6	0.95	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.87 U	3.6	0.87	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.73 U	3.6	0.73	ug/kg	
100-41-4	Ethylbenzene	0.73 U	3.6	0.73	ug/kg	
591-78-6	2-Hexanone	3.6 U	18	3.6	ug/kg	
98-82-8	Isopropylbenzene	0.80 U	3.6	0.80	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.7 U	18	4.7	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.6	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	3.6	1.7	ug/kg	
75-09-2	Methylene chloride [a]	8.2	7.3	3.6	ug/kg	
78-93-3	Methyl ethyl ketone	6.0 U	18	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.6	1.1	ug/kg	
100-42-5	Styrene	0.73 U	3.6	0.73	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.80 U	3.6	0.80	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.73 U	3.6	0.73	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.73 U	3.6	0.73	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB02-22-20090311		
Lab Sample ID:	F63891-3	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	88.4
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.73 U	3.6	0.73	ug/kg	
127-18-4	Tetrachloroethylene	0.87 U	3.6	0.87	ug/kg	
108-88-3	Toluene	0.73 U	3.6	0.73	ug/kg	
79-01-6	Trichloroethylene	0.87 U	3.6	0.87	ug/kg	
75-01-4	Vinyl chloride	1.5 U	3.6	1.5	ug/kg	
1330-20-7	Xylene (total)	2.1 U	11	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-121%
2037-26-5	Toluene-D8	93%		71-130%
460-00-4	4-Bromofluorobenzene	101%		59-148%
17060-07-0	1,2-Dichloroethane-D4	101%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB02-22-20090311		
Lab Sample ID:	F63891-3	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	88.4
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045188.D	4	03/19/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	76 U	300	76	ug/kg	
208-96-8	Acenaphthylene	76 U	300	76	ug/kg	
120-12-7	Anthracene	38 U	300	38	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	30	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	30	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	30	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	30	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	30	15	ug/kg	
218-01-9	Chrysene	15 U	30	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	30	15	ug/kg	
206-44-0	Fluoranthene	38 U	300	38	ug/kg	
86-73-7	Fluorene	76 U	300	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	30	15	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	300	38	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	300	38	ug/kg	
91-20-3	Naphthalene	38 U	300	38	ug/kg	
85-01-8	Phenanthrene	38 U	300	38	ug/kg	
129-00-0	Pyrene	38 U	300	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

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-OCS-SB03-20-20090311		
Lab Sample ID:	F63891-4	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	91.4
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056608.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.61 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	36	18	ug/kg	
71-43-2	Benzene	0.72 U	3.6	0.72	ug/kg	
75-27-4	Bromodichloromethane	0.86 U	3.6	0.86	ug/kg	
75-25-2	Bromoform	1.1 U	3.6	1.1	ug/kg	
108-90-7	Chlorobenzene	0.72 U	3.6	0.72	ug/kg	
75-00-3	Chloroethane	1.4 U	3.6	1.4	ug/kg	
67-66-3	Chloroform	1.2 U	3.6	1.2	ug/kg	
75-15-0	Carbon disulfide	0.79 U	3.6	0.79	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.6	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	0.93 U	3.6	0.93	ug/kg	
107-06-2	1,2-Dichloroethane	0.79 U	3.6	0.79	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.6	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.72 U	3.6	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.6	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.93 U	3.6	0.93	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.86 U	3.6	0.86	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.72 U	3.6	0.72	ug/kg	
100-41-4	Ethylbenzene	0.72 U	3.6	0.72	ug/kg	
591-78-6	2-Hexanone	3.6 U	18	3.6	ug/kg	
98-82-8	Isopropylbenzene	0.79 U	3.6	0.79	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.6 U	18	4.6	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.6	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	3.6	1.7	ug/kg	
75-09-2	Methylene chloride [a]	7.8	7.2	3.6	ug/kg	
78-93-3	Methyl ethyl ketone	6.0 U	18	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.6	1.1	ug/kg	
100-42-5	Styrene	0.72 U	3.6	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.79 U	3.6	0.79	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.72 U	3.6	0.72	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.72 U	3.6	0.72	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB03-20-20090311		
Lab Sample ID:	F63891-4	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	91.4
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.72 U	3.6	0.72	ug/kg	
127-18-4	Tetrachloroethylene	0.86 U	3.6	0.86	ug/kg	
108-88-3	Toluene	0.72 U	3.6	0.72	ug/kg	
79-01-6	Trichloroethylene	0.86 U	3.6	0.86	ug/kg	
75-01-4	Vinyl chloride	1.4 U	3.6	1.4	ug/kg	
1330-20-7	Xylene (total)	2.1 U	11	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	108%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB03-20-20090311		
Lab Sample ID:	F63891-4	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	91.4
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045191.D	4	03/20/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	73 U	290	73	ug/kg	
208-96-8	Acenaphthylene	73 U	290	73	ug/kg	
120-12-7	Anthracene	36 U	290	36	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	29	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	29	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	29	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	29	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	29	15	ug/kg	
218-01-9	Chrysene	15 U	29	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	29	15	ug/kg	
206-44-0	Fluoranthene	36 U	290	36	ug/kg	
86-73-7	Fluorene	73 U	290	73	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	29	15	ug/kg	
90-12-0	1-Methylnaphthalene	36 U	290	36	ug/kg	
91-57-6	2-Methylnaphthalene	36 U	290	36	ug/kg	
91-20-3	Naphthalene	36 U	290	36	ug/kg	
85-01-8	Phenanthrene	36 U	290	36	ug/kg	
129-00-0	Pyrene	36 U	290	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		40-105%
321-60-8	2-Fluorobiphenyl	56%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB03-20-20090311		
Lab Sample ID:	F63891-4	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
		Percent Solids:	91.4
Project:	Ocala F-18 Crash site CTO209		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	91.4			%	1	03/13/09	MV	SM19 2540B M
Total Organic Carbon	645 I	1100	550	mg/kg	1	04/02/09 14:12	AJC	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

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

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Report of Analysis

Client Sample ID:	CEF-OCS-SB03-24-20090311		
Lab Sample ID:	F63891-5	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	87.9
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056609.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.65 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19 U	37	19	ug/kg	
71-43-2	Benzene	0.74 U	3.7	0.74	ug/kg	
75-27-4	Bromodichloromethane	0.89 U	3.7	0.89	ug/kg	
75-25-2	Bromoform	1.1 U	3.7	1.1	ug/kg	
108-90-7	Chlorobenzene	0.74 U	3.7	0.74	ug/kg	
75-00-3	Chloroethane	1.5 U	3.7	1.5	ug/kg	
67-66-3	Chloroform	1.3 U	3.7	1.3	ug/kg	
75-15-0	Carbon disulfide	0.82 U	3.7	0.82	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.7	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	ug/kg	
75-35-4	1,1-Dichloroethylene	0.97 U	3.7	0.97	ug/kg	
107-06-2	1,2-Dichloroethane	0.82 U	3.7	0.82	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.7	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.74 U	3.7	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.7	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.97 U	3.7	0.97	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.89 U	3.7	0.89	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.74 U	3.7	0.74	ug/kg	
100-41-4	Ethylbenzene	0.74 U	3.7	0.74	ug/kg	
591-78-6	2-Hexanone	3.7 U	19	3.7	ug/kg	
98-82-8	Isopropylbenzene	0.82 U	3.7	0.82	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.8 U	19	4.8	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.7	1.6	ug/kg	
74-87-3	Methyl chloride	1.8 U	3.7	1.8	ug/kg	
75-09-2	Methylene chloride [a]	6.9	7.4	3.7	ug/kg	I
78-93-3	Methyl ethyl ketone	6.2 U	19	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.7	1.1	ug/kg	
100-42-5	Styrene	0.74 U	3.7	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.82 U	3.7	0.82	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.7	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.74 U	3.7	0.74	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.74 U	3.7	0.74	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB03-24-20090311		
Lab Sample ID:	F63891-5	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	87.9
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.74 U	3.7	0.74	ug/kg	
127-18-4	Tetrachloroethylene	0.89 U	3.7	0.89	ug/kg	
108-88-3	Toluene	0.74 U	3.7	0.74	ug/kg	
79-01-6	Trichloroethylene	0.89 U	3.7	0.89	ug/kg	
75-01-4	Vinyl chloride	1.5 U	3.7	1.5	ug/kg	
1330-20-7	Xylene (total)	2.2 U	11	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	89%		71-130%
460-00-4	4-Bromofluorobenzene	98%		59-148%
17060-07-0	1,2-Dichloroethane-D4	98%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB03-24-20090311		
Lab Sample ID:	F63891-5	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	87.9
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045192.D	4	03/20/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	76 U	300	76	ug/kg	
208-96-8	Acenaphthylene	76 U	300	76	ug/kg	
120-12-7	Anthracene	38 U	300	38	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	30	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	30	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	30	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	30	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	30	15	ug/kg	
218-01-9	Chrysene	15 U	30	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	30	15	ug/kg	
206-44-0	Fluoranthene	38 U	300	38	ug/kg	
86-73-7	Fluorene	76 U	300	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	30	15	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	300	38	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	300	38	ug/kg	
91-20-3	Naphthalene	38 U	300	38	ug/kg	
85-01-8	Phenanthrene	38 U	300	38	ug/kg	
129-00-0	Pyrene	38 U	300	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

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-OCS-SB04-16-20090311		
Lab Sample ID:	F63891-6	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	92.6
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056610.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.34 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18 U	37	18	ug/kg	
71-43-2	Benzene	0.74 U	3.7	0.74	ug/kg	
75-27-4	Bromodichloromethane	0.88 U	3.7	0.88	ug/kg	
75-25-2	Bromoform	1.1 U	3.7	1.1	ug/kg	
108-90-7	Chlorobenzene	0.74 U	3.7	0.74	ug/kg	
75-00-3	Chloroethane	1.5 U	3.7	1.5	ug/kg	
67-66-3	Chloroform	1.3 U	3.7	1.3	ug/kg	
75-15-0	Carbon disulfide	0.81 U	3.7	0.81	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.7	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	ug/kg	
75-35-4	1,1-Dichloroethylene	0.96 U	3.7	0.96	ug/kg	
107-06-2	1,2-Dichloroethane	0.81 U	3.7	0.81	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.7	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.74 U	3.7	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.7	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.96 U	3.7	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.88 U	3.7	0.88	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.74 U	3.7	0.74	ug/kg	
100-41-4	Ethylbenzene	0.74 U	3.7	0.74	ug/kg	
591-78-6	2-Hexanone	3.7 U	18	3.7	ug/kg	
98-82-8	Isopropylbenzene	0.81 U	3.7	0.81	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.7 U	18	4.7	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.7	1.6	ug/kg	
74-87-3	Methyl chloride	1.8 U	3.7	1.8	ug/kg	
75-09-2	Methylene chloride [a]	6.5	7.4	3.7	ug/kg	I
78-93-3	Methyl ethyl ketone	6.1 U	18	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.7	1.1	ug/kg	
100-42-5	Styrene	0.74 U	3.7	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.81 U	3.7	0.81	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.7	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.74 U	3.7	0.74	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	0.74 U	3.7	0.74	ug/kg	

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB04-16-20090311		
Lab Sample ID:	F63891-6	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	92.6
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.74 U	3.7	0.74	ug/kg	
127-18-4	Tetrachloroethylene	0.88 U	3.7	0.88	ug/kg	
108-88-3	Toluene	0.74 U	3.7	0.74	ug/kg	
79-01-6	Trichloroethylene	0.88 U	3.7	0.88	ug/kg	
75-01-4	Vinyl chloride	1.5 U	3.7	1.5	ug/kg	
1330-20-7	Xylene (total)	2.1 U	11	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-121%
2037-26-5	Toluene-D8	94%		71-130%
460-00-4	4-Bromofluorobenzene	103%		59-148%
17060-07-0	1,2-Dichloroethane-D4	109%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB04-16-20090311		
Lab Sample ID:	F63891-6	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	92.6
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045193.D	4	03/20/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	72 U	290	72	ug/kg	
208-96-8	Acenaphthylene	72 U	290	72	ug/kg	
120-12-7	Anthracene	36 U	290	36	ug/kg	
56-55-3	Benzo(a)anthracene	14 U	29	14	ug/kg	
50-32-8	Benzo(a)pyrene	14 U	29	14	ug/kg	
205-99-2	Benzo(b)fluoranthene	14 U	29	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	14 U	29	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	14 U	29	14	ug/kg	
218-01-9	Chrysene	14 U	29	14	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	14 U	29	14	ug/kg	
206-44-0	Fluoranthene	36 U	290	36	ug/kg	
86-73-7	Fluorene	72 U	290	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	14 U	29	14	ug/kg	
90-12-0	1-Methylnaphthalene	36 U	290	36	ug/kg	
91-57-6	2-Methylnaphthalene	36 U	290	36	ug/kg	
91-20-3	Naphthalene	36 U	290	36	ug/kg	
85-01-8	Phenanthrene	36 U	290	36	ug/kg	
129-00-0	Pyrene	36 U	290	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

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-OCS-SB04-28-20090311		
Lab Sample ID:	F63891-7	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	85.3
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056611.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	8.14 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	22.6	36	18	ug/kg	I
71-43-2	Benzene	0.72 U	3.6	0.72	ug/kg	
75-27-4	Bromodichloromethane	0.86 U	3.6	0.86	ug/kg	
75-25-2	Bromoform	1.1 U	3.6	1.1	ug/kg	
108-90-7	Chlorobenzene	0.72 U	3.6	0.72	ug/kg	
75-00-3	Chloroethane	1.4 U	3.6	1.4	ug/kg	
67-66-3	Chloroform	1.2 U	3.6	1.2	ug/kg	
75-15-0	Carbon disulfide	0.79 U	3.6	0.79	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.6	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	0.94 U	3.6	0.94	ug/kg	
107-06-2	1,2-Dichloroethane	0.79 U	3.6	0.79	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.6	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.72 U	3.6	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.6	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.94 U	3.6	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.86 U	3.6	0.86	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.72 U	3.6	0.72	ug/kg	
100-41-4	Ethylbenzene	10.8	3.6	0.72	ug/kg	
591-78-6	2-Hexanone	3.6 U	18	3.6	ug/kg	
98-82-8	Isopropylbenzene	40.5	3.6	0.79	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.6 U	18	4.6	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.6	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	3.6	1.7	ug/kg	
75-09-2	Methylene chloride [a]	5.2	7.2	3.6	ug/kg	I
78-93-3	Methyl ethyl ketone	6.0 U	18	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.6	1.1	ug/kg	
100-42-5	Styrene	0.72 U	3.6	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.79 U	3.6	0.79	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.6	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.72 U	3.6	0.72	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	345	3.6	0.72	ug/kg	L

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB04-28-20090311		
Lab Sample ID:	F63891-7	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	85.3
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	168	3.6	0.72	ug/kg	L
127-18-4	Tetrachloroethylene	0.86 U	3.6	0.86	ug/kg	
108-88-3	Toluene	0.72 U	3.6	0.72	ug/kg	
79-01-6	Trichloroethylene	0.86 U	3.6	0.86	ug/kg	
75-01-4	Vinyl chloride	1.4 U	3.6	1.4	ug/kg	
1330-20-7	Xylene (total)	18.4	11	2.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-121%
2037-26-5	Toluene-D8	92%		71-130%
460-00-4	4-Bromofluorobenzene	92%		59-148%
17060-07-0	1,2-Dichloroethane-D4	108%		77-123%

(a) Suspected laboratory contaminant.

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB04-28-20090311		
Lab Sample ID:	F63891-7	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	85.3
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045194.D	4	03/20/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	78 U	310	78	ug/kg	
208-96-8	Acenaphthylene	79.5	310	78	ug/kg	I
120-12-7	Anthracene	39 U	310	39	ug/kg	
56-55-3	Benzo(a)anthracene	16 U	31	16	ug/kg	
50-32-8	Benzo(a)pyrene	16 U	31	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	16 U	31	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	16 U	31	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	16 U	31	16	ug/kg	
218-01-9	Chrysene	16 U	31	16	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16 U	31	16	ug/kg	
206-44-0	Fluoranthene	39 U	310	39	ug/kg	
86-73-7	Fluorene	78 U	310	78	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16 U	31	16	ug/kg	
90-12-0	1-Methylnaphthalene	3770	310	39	ug/kg	
91-57-6	2-Methylnaphthalene	4070	310	39	ug/kg	
91-20-3	Naphthalene	331	310	39	ug/kg	
85-01-8	Phenanthrene	39 U	310	39	ug/kg	
129-00-0	Pyrene	39 U	310	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	181% [a]		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(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-OCS-SB06-23-20090311		
Lab Sample ID:	F63891-8	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	85.2
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056612.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	7.90 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19 U	37	19	ug/kg	
71-43-2	Benzene	0.74 U	3.7	0.74	ug/kg	
75-27-4	Bromodichloromethane	0.89 U	3.7	0.89	ug/kg	
75-25-2	Bromoform	1.1 U	3.7	1.1	ug/kg	
108-90-7	Chlorobenzene	0.74 U	3.7	0.74	ug/kg	
75-00-3	Chloroethane	1.5 U	3.7	1.5	ug/kg	
67-66-3	Chloroform	1.3 U	3.7	1.3	ug/kg	
75-15-0	Carbon disulfide	0.82 U	3.7	0.82	ug/kg	
56-23-5	Carbon tetrachloride	1.0 U	3.7	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	ug/kg	
75-35-4	1,1-Dichloroethylene	0.97 U	3.7	0.97	ug/kg	
107-06-2	1,2-Dichloroethane	0.82 U	3.7	0.82	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	3.7	1.0	ug/kg	
124-48-1	Dibromochloromethane	0.74 U	3.7	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.2 U	3.7	1.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.97 U	3.7	0.97	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	0.89 U	3.7	0.89	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.74 U	3.7	0.74	ug/kg	
100-41-4	Ethylbenzene	0.74 U	3.7	0.74	ug/kg	
591-78-6	2-Hexanone	3.7 U	19	3.7	ug/kg	
98-82-8	Isopropylbenzene	0.82 U	3.7	0.82	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.8 U	19	4.8	ug/kg	
74-83-9	Methyl bromide	1.6 U	3.7	1.6	ug/kg	
74-87-3	Methyl chloride	1.8 U	3.7	1.8	ug/kg	
75-09-2	Methylene chloride [a]	4.6	7.4	3.7	ug/kg	I
78-93-3	Methyl ethyl ketone	6.2 U	19	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	3.7	1.1	ug/kg	
100-42-5	Styrene	0.74 U	3.7	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.82 U	3.7	0.82	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.7	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	0.74 U	3.7	0.74	ug/kg	
95-63-6	1,2,4-Trimethylbenzene [a]	1.2	3.7	0.74	ug/kg	I

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

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

Report of Analysis

Client Sample ID:	CEF-OCS-SB06-23-20090311		
Lab Sample ID:	F63891-8	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	85.2
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	0.74 U	3.7	0.74	ug/kg	
127-18-4	Tetrachloroethylene	0.89 U	3.7	0.89	ug/kg	
108-88-3	Toluene	0.74 U	3.7	0.74	ug/kg	
79-01-6	Trichloroethylene	0.89 U	3.7	0.89	ug/kg	
75-01-4	Vinyl chloride	1.5 U	3.7	1.5	ug/kg	
1330-20-7	Xylene (total)	2.2 U	11	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	96%		59-148%
17060-07-0	1,2-Dichloroethane-D4	99%		77-123%

(a) Suspected laboratory contaminant.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-OCS-SB06-23-20090311		
Lab Sample ID:	F63891-8	**Date Sampled:**	03/11/09
Matrix:	SO - Soil	**Date Received:**	03/13/09
Method:	SW846 8270C BY SIM SW846 3550B	**Percent Solids:**	85.2
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W045195.D	4	03/20/09	RB	03/17/09	OP28394	SW2294
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	77 U	310	77	ug/kg	
208-96-8	Acenaphthylene	77 U	310	77	ug/kg	
120-12-7	Anthracene	39 U	310	39	ug/kg	
56-55-3	Benzo(a)anthracene	15 U	31	15	ug/kg	
50-32-8	Benzo(a)pyrene	15 U	31	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	15 U	31	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	15 U	31	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	15 U	31	15	ug/kg	
218-01-9	Chrysene	15 U	31	15	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	15 U	31	15	ug/kg	
206-44-0	Fluoranthene	39 U	310	39	ug/kg	
86-73-7	Fluorene	77 U	310	77	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	15 U	31	15	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	310	39	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	310	39	ug/kg	
91-20-3	Naphthalene	39 U	310	39	ug/kg	
85-01-8	Phenanthrene	39 U	310	39	ug/kg	
129-00-0	Pyrene	39 U	310	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	64%		43-107%
1718-51-0	Terphenyl-d14	84%		45-119%

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:	TRIP BLANK		
Lab Sample ID:	F63891-9	**Date Sampled:**	03/11/09
Matrix:	SO - Trip Blank Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0056621.D	1	03/17/09	MM	n/a	n/a	VG2137
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	25 U	50	25	ug/kg	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.2 U	5.0	1.2	ug/kg	
75-25-2	Bromoform	1.5 U	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	1.0 U	5.0	1.0	ug/kg	
75-00-3	Chloroethane	2.0 U	5.0	2.0	ug/kg	
67-66-3	Chloroform	1.7 U	5.0	1.7	ug/kg	
75-15-0	Carbon disulfide	1.1 U	5.0	1.1	ug/kg	
56-23-5	Carbon tetrachloride	1.4 U	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	2.0 U	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5	5.0	1.3	ug/kg	I
107-06-2	1,2-Dichloroethane	1.1 U	5.0	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.3 U	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.2 U	5.0	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	5.0 U	25	5.0	ug/kg	
98-82-8	Isopropylbenzene	1.1 U	5.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	6.4 U	25	6.4	ug/kg	
74-83-9	Methyl bromide	2.2 U	5.0	2.2	ug/kg	
74-87-3	Methyl chloride	2.4 U	5.0	2.4	ug/kg	
75-09-2	Methylene chloride [a]	13.5	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	8.3 U	25	8.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	5.0	1.5	ug/kg	
100-42-5	Styrene	1.0 U	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.1 U	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.8 U	5.0	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.0 U	5.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.0 U	5.0	1.0	ug/kg	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F63891-9	**Date Sampled:**	03/11/09
Matrix:	SO - Trip Blank Soil	**Date Received:**	03/13/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Ocala F-18 Crash site CTO209		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-67-8	1,3,5-Trimethylbenzene	1.0 U	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	1.2 U	5.0	1.2	ug/kg	
108-88-3	Toluene	1.0 U	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	1.2 U	5.0	1.2	ug/kg	
75-01-4	Vinyl chloride	2.0 U	5.0	2.0	ug/kg	
1330-20-7	Xylene (total)	2.9 U	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-121%
2037-26-5	Toluene-D8	95%		71-130%
460-00-4	4-Bromofluorobenzene	101%		59-148%
17060-07-0	1,2-Dichloroethane-D4	110%		77-123%

(a) Suspected laboratory contaminant.

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

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

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

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

Accutest JOB # F63891 PAGE 1 OF 1
Accutest Quote # DFF#

Client / Reporting Information

Company Name: Tetra Tech NUS, Inc.
Address: 8640 Philips Hwy, Suite 16
City: Jacksonville State: FL Zip: 32256
Project Contact: Kara Winkle E-mail: Kara.Winkle@tetratech.com
Phone#: 904.636.6125
Sampler(s) Name(s) (Printed): Rick McCann

Project Information

Project Name: Ocala F-18 Crash Site
Street: NFS 573
City: Ocala National Forest State: FL
Project #:
Fax #: 904.636.6165
Client Purchase Order #:

Analytical Information / **Matrix Codes**

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

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	MeOH	HNO3	NaOH	NaOH/ZnAc	DI Water	Water	VOCs by 8260B	PAHs by 8270 SIM	Total Organic Carbon
1	CEF-OCS-SBCS1AR-22-20090311	3/11/09	1415	RM	SO	5	X							X	X	X	X	X
2	CEF-OCS-SBCS1AR-26-20090311	3/11/09	1420	RM	SO	5	X							X	X	X	X	
3	CEF-OCS-SB02-22-20090311	3/11/09	1444	RM	SO	5	X							X	X	X	X	
4	CEF-OCS-SB03-20-20090311	3/11/09	1502	RM	SO	5	X							X	X	X	X	X
5	CEF-OCS-SB03-24-20090311	3/11/09	1507	RM	SO	5	X							X	X	X	X	
6	CEF-OCS-SB04-16-20090311	3/11/09	1531	RM	SO	5	X							X	X	X	X	
7	CEF-OCS-SB04-28-20090311	3/11/09	1536	RM	SO	5	X							X	X	X	X	
8	CEF-OCS-SB06-23-20090311	3/11/09	1621	RM	SO	5	X							X	X	X	X	
9	TRIP BLANK															X		

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

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

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

Data Deliverable Information

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

Comments / Remarks

*Please take all copies of COC

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 Richard D. McCann	3/12/09	3/12/09 1248	3	3/12/09 1652	3/13/09 Accutest 810
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: / Cooler Temperature (s) Celsius: 3.0

F63891: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F63891 CLIENT: Jetca Tech PROJECT: Ocala F-18 Crash Site

DATE/TIME RECEIVED: 3/13/09 8:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.0

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 OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA 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
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 8+TB

NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE CLR 3/13/09 TECHNICIAN SIGNATURE/DATE E.T. 3-13-09

ASBD 12/17/07

4.1 4

F63891: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2137-MB	G0056602.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/kg	
75-25-2	Bromoform	ND	5.0	1.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	6.4	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	8.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.5	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.2	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	

Method Blank Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2137-MB	G0056602.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.9	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-121%
2037-26-5	Toluene-D8	95%	71-130%
460-00-4	4-Bromofluorobenzene	94%	59-148%
17060-07-0	1,2-Dichloroethane-D4	101%	77-123%

Blank Spike Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2137-BS	G0056601.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	273	109	61-144
71-43-2	Benzene	50	56.6	113	78-130
75-27-4	Bromodichloromethane	50	52.1	104	73-122
75-25-2	Bromoform	50	45.5	91	70-139
108-90-7	Chlorobenzene	50	57.0	114	83-122
75-00-3	Chloroethane	50	55.6	111	61-153
67-66-3	Chloroform	50	57.0	114	79-129
75-15-0	Carbon disulfide	50	43.7	87	61-142
56-23-5	Carbon tetrachloride	50	57.7	115	79-135
75-34-3	1,1-Dichloroethane	50	57.0	114	77-132
75-35-4	1,1-Dichloroethylene	50	59.1	118	66-132
107-06-2	1,2-Dichloroethane	50	52.1	104	78-129
78-87-5	1,2-Dichloropropane	50	56.0	112	74-127
124-48-1	Dibromochloromethane	50	45.8	92	78-117
156-59-2	cis-1,2-Dichloroethylene	50	55.0	110	74-123
10061-01-5	cis-1,3-Dichloropropene	50	56.9	114	79-130
156-60-5	trans-1,2-Dichloroethylene	50	58.2	116	77-129
10061-02-6	trans-1,3-Dichloropropene	50	58.4	117	87-131
100-41-4	Ethylbenzene	50	58.3	117	82-124
591-78-6	2-Hexanone	250	268	107	67-130
98-82-8	Isopropylbenzene	50	59.9	120	82-133
108-10-1	4-Methyl-2-pentanone	250	249	100	69-125
74-83-9	Methyl bromide	50	58.0	116	60-146
74-87-3	Methyl chloride	50	60.7	121	58-163
75-09-2	Methylene chloride	50	57.0	114	62-140
78-93-3	Methyl ethyl ketone	250	278	111	66-134
1634-04-4	Methyl Tert Butyl Ether	50	48.7	97	70-131
100-42-5	Styrene	50	57.4	115	79-123
71-55-6	1,1,1-Trichloroethane	50	55.0	110	80-133
79-34-5	1,1,2,2-Tetrachloroethane	50	57.7	115	70-128
79-00-5	1,1,2-Trichloroethane	50	53.0	106	76-118
95-63-6	1,2,4-Trimethylbenzene	50	63.0	126	77-129
108-67-8	1,3,5-Trimethylbenzene	50	63.3	127	79-129
127-18-4	Tetrachloroethylene	50	55.1	110	79-132
108-88-3	Toluene	50	56.5	113	80-123
79-01-6	Trichloroethylene	50	57.7	115	78-132

Blank Spike Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG2137-BS	G0056601.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
75-01-4	Vinyl chloride	50	51.0	102	60-145
1330-20-7	Xylene (total)	150	178	119	83-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	80-121%
2037-26-5	Toluene-D8	98%	71-130%
460-00-4	4-Bromofluorobenzene	102%	59-148%
17060-07-0	1,2-Dichloroethane-D4	95%	77-123%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63891-3MS	G0056604.D	1	03/17/09	MM	n/a	n/a	VG2137
F63891-3MSD	G0056605.D	1	03/17/09	MM	n/a	n/a	VG2137
F63891-3	G0056603.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	F63891-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	36 U		300	133	44*	113	38*	16	61-144/29
71-43-2	Benzene	3.6 U		59.9	73.7	123	70.1	119	5	78-130/25
75-27-4	Bromodichloromethane	3.6 U		59.9	65.6	109	60.4	103	8	73-122/25
75-25-2	Bromoform	3.6 U		59.9	48.4	81	46.7	79	4	70-139/26
108-90-7	Chlorobenzene	3.6 U		59.9	74.6	125*	66.5	113	11	83-122/23
75-00-3	Chloroethane	3.6 U		59.9	76.6	128	71.1	121	7	61-153/31
67-66-3	Chloroform	3.6 U		59.9	72.2	121	66.6	113	8	79-129/27
75-15-0	Carbon disulfide	3.6 U		59.9	62.5	104	57.0	97	9	61-142/27
56-23-5	Carbon tetrachloride	3.6 U		59.9	77.7	130	71.9	122	8	79-135/29
75-34-3	1,1-Dichloroethane	3.6 U		59.9	73.1	122	68.1	116	7	77-132/26
75-35-4	1,1-Dichloroethylene	3.6 U		59.9	82.0	137*	78.1	133*	5	66-132/27
107-06-2	1,2-Dichloroethane	3.6 U		59.9	61.3	102	56.3	96	9	78-129/24
78-87-5	1,2-Dichloropropane	3.6 U		59.9	68.1	114	63.4	108	7	74-127/27
124-48-1	Dibromochloromethane	3.6 U		59.9	54.6	91	50.1	85	9	78-117/27
156-59-2	cis-1,2-Dichloroethylene	3.6 U		59.9	69.4	116	64.4	110	7	74-123/26
10061-01-5	cis-1,3-Dichloropropene	3.6 U		59.9	63.8	106	59.3	101	7	79-130/23
156-60-5	trans-1,2-Dichloroethylene	3.6 U		59.9	79.8	133*	73.4	125	8	77-129/27
10061-02-6	trans-1,3-Dichloropropene	3.6 U		59.9	65.1	109	60.7	103	7	87-131/27
100-41-4	Ethylbenzene	3.6 U		59.9	78.2	131*	71.7	122	9	82-124/25
591-78-6	2-Hexanone	18 U		300	205	68	191	65*	7	67-130/29
98-82-8	Isopropylbenzene	3.6 U		59.9	82.3	137*	75.2	128	9	82-133/27
108-10-1	4-Methyl-2-pentanone	18 U		300	244	81	227	77	7	69-125/24
74-83-9	Methyl bromide	3.6 U		59.9	91.8	153*	87.1	148*	5	60-146/31
74-87-3	Methyl chloride	3.6 U		59.9	58.8	98	77.7	132	28*	58-163/26
75-09-2	Methylene chloride	8.2		59.9	87.4	132	87.7	135	0	62-140/25
78-93-3	Methyl ethyl ketone	18 U		300	178	59*	159	54*	11	66-134/23
1634-04-4	Methyl Tert Butyl Ether	3.6 U		59.9	53.3	89	50.3	86	6	70-131/25
100-42-5	Styrene	3.6 U		59.9	73.3	122	64.9	110	12	79-123/28
71-55-6	1,1,1-Trichloroethane	3.6 U		59.9	75.3	126	70.7	120	6	80-133/27
79-34-5	1,1,2,2-Tetrachloroethane	3.6 U		59.9	55.5	93	54.5	93	2	70-128/30
79-00-5	1,1,2-Trichloroethane	3.6 U		59.9	60.0	100	54.9	93	9	76-118/28
95-63-6	1,2,4-Trimethylbenzene	3.6 U		59.9	78.0	130*	71.9	122	8	77-129/29
108-67-8	1,3,5-Trimethylbenzene	3.6 U		59.9	79.6	133*	73.4	125	8	79-129/31
127-18-4	Tetrachloroethylene	3.6 U		59.9	85.4	143*	77.7	132	9	79-132/27
108-88-3	Toluene	3.6 U		59.9	77.2	129*	69.2	118	11	80-123/26
79-01-6	Trichloroethylene	3.6 U		59.9	76.5	128	71.3	121	7	78-132/28

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63891-3MS	G0056604.D	1	03/17/09	MM	n/a	n/a	VG2137
F63891-3MSD	G0056605.D	1	03/17/09	MM	n/a	n/a	VG2137
F63891-3	G0056603.D	1	03/17/09	MM	n/a	n/a	VG2137

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8, F63891-9

CAS No.	Compound	F63891-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
75-01-4	Vinyl chloride	3.6 U		59.9	71.5	119	68.2	116	5	60-145/29
1330-20-7	Xylene (total)	11 U		180	238	132*	216	122	10	83-127/24

CAS No.	Surrogate Recoveries	MS	MSD	F63891-3	Limits
1868-53-7	Dibromofluoromethane	101%	99%	94%	80-121%
2037-26-5	Toluene-D8	100%	98%	93%	71-130%
460-00-4	4-Bromofluorobenzene	96%	96%	101%	59-148%
17060-07-0	1,2-Dichloroethane-D4	94%	95%	101%	77-123%

Method Blank Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28394-MB	W045180.D	1	03/19/09	RB	03/17/09	OP28394	SW2294

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	17	ug/kg	
208-96-8	Acenaphthylene	ND	67	17	ug/kg	
120-12-7	Anthracene	ND	67	8.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	6.7	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	6.7	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	6.7	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	3.3	ug/kg	
218-01-9	Chrysene	ND	6.7	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	8.3	ug/kg	
86-73-7	Fluorene	ND	67	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.7	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	8.3	ug/kg	
91-20-3	Naphthalene	ND	67	8.3	ug/kg	
85-01-8	Phenanthrene	ND	67	8.3	ug/kg	
129-00-0	Pyrene	ND	67	8.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	81%	40-105%
321-60-8	2-Fluorobiphenyl	78%	43-107%
1718-51-0	Terphenyl-d14	83%	45-119%

Method Blank Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28394-MB	R18230.D	1	03/26/09	RB	03/17/09	OP28394	SR871

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	17	ug/kg	
208-96-8	Acenaphthylene	ND	67	17	ug/kg	
120-12-7	Anthracene	ND	67	8.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	6.7	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	6.7	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	6.7	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	3.3	ug/kg	
218-01-9	Chrysene	ND	6.7	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	8.3	ug/kg	
86-73-7	Fluorene	ND	67	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.7	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	8.3	ug/kg	
91-20-3	Naphthalene	ND	67	8.3	ug/kg	
85-01-8	Phenanthrene	ND	67	8.3	ug/kg	
129-00-0	Pyrene	ND	67	8.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	77%	40-105%
321-60-8	2-Fluorobiphenyl	77%	43-107%
1718-51-0	Terphenyl-d14	79%	45-119%

Method Blank Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28394-MB	W045302.D	1	03/27/09	RB	03/17/09	OP28394	SW2299

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	67	17	ug/kg	
208-96-8	Acenaphthylene	ND	67	17	ug/kg	
120-12-7	Anthracene	ND	67	8.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	6.7	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	6.7	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	6.7	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	6.7	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	6.7	3.3	ug/kg	
218-01-9	Chrysene	ND	6.7	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	6.7	3.3	ug/kg	
206-44-0	Fluoranthene	ND	67	8.3	ug/kg	
86-73-7	Fluorene	ND	67	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.7	3.3	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	8.3	ug/kg	
91-20-3	Naphthalene	ND	67	8.3	ug/kg	
85-01-8	Phenanthrene	ND	67	8.3	ug/kg	
129-00-0	Pyrene	ND	67	8.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	76%	40-105%
321-60-8	2-Fluorobiphenyl	77%	43-107%
1718-51-0	Terphenyl-d14	85%	45-119%

Blank Spike Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28394-BS	W045179.D	1	03/19/09	RB	03/17/09	OP28394	SW2294

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	833	702	84	61-97
208-96-8	Acenaphthylene	833	686	82	61-95
120-12-7	Anthracene	833	734	88	64-100
56-55-3	Benzo(a)anthracene	83.3	78.1	94	63-106
50-32-8	Benzo(a)pyrene	83.3	83.5	100	69-107
205-99-2	Benzo(b)fluoranthene	83.3	84.4	101	69-107
191-24-2	Benzo(g,h,i)perylene	83.3	76.2	91	56-110
207-08-9	Benzo(k)fluoranthene	83.3	82.2	99	64-109
218-01-9	Chrysene	83.3	77.4	93	64-108
53-70-3	Dibenzo(a,h)anthracene	83.3	78.2	94	58-113
206-44-0	Fluoranthene	833	782	94	64-104
86-73-7	Fluorene	833	723	87	61-99
193-39-5	Indeno(1,2,3-cd)pyrene	83.3	82.4	99	59-113
90-12-0	1-Methylnaphthalene	833	744	89	58-98
91-57-6	2-Methylnaphthalene	833	666	80	57-95
91-20-3	Naphthalene	833	674	81	58-94
85-01-8	Phenanthrene	833	723	87	65-100
129-00-0	Pyrene	833	732	88	62-107

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	95%	40-105%
321-60-8	2-Fluorobiphenyl	92%	43-107%
1718-51-0	Terphenyl-d14	90%	45-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63891
Account: TETRPAPT Tetra Tech NUS
Project: Ocala F-18 Crash site CTO209

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28394-MS	W045189.D	4	03/19/09	RB	03/17/09	OP28394	SW2294
OP28394-MSD	W045190.D	4	03/19/09	RB	03/17/09	OP28394	SW2294
F63891-3	W045188.D	4	03/19/09	RB	03/17/09	OP28394	SW2294

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

F63891-1, F63891-2, F63891-3, F63891-4, F63891-5, F63891-6, F63891-7, F63891-8

7.3.1

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CAS No.	Compound	F63891-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	300 U		936	646	69	572	61	12	61-97/27
208-96-8	Acenaphthylene	300 U		936	602	64	544	58*	10	61-95/29
120-12-7	Anthracene	300 U		936	697	74	691	74	1	64-100/24
56-55-3	Benzo(a)anthracene	30 U		93.6	73.3	78	82.0	87	11	63-106/35
50-32-8	Benzo(a)pyrene	30 U		93.6	74.2	79	81.5	87	9	69-107/33
205-99-2	Benzo(b)fluoranthene	30 U		93.6	74.9	80	84.8	90	12	69-107/32
191-24-2	Benzo(g,h,i)perylene	30 U		93.6	62.1	66	71.1	76	14	56-110/37
207-08-9	Benzo(k)fluoranthene	30 U		93.6	70.5	75	77.9	83	10	64-109/34
218-01-9	Chrysene	30 U		93.6	70.8	76	80.6	86	13	64-108/34
53-70-3	Dibenzo(a,h)anthracene	30 U		93.6	60.8	65	66.9	71	10	58-113/38
206-44-0	Fluoranthene	300 U		936	747	80	797	85	6	64-104/33
86-73-7	Fluorene	300 U		936	678	72	610	65	11	61-99/28
193-39-5	Indeno(1,2,3-cd)pyrene	30 U		93.6	64.6	69	72.3	77	11	59-113/34
90-12-0	1-Methylnaphthalene	300 U		936	685	73	596	63	14	58-98/30
91-57-6	2-Methylnaphthalene	300 U		936	614	66	535	57	14	57-95/31
91-20-3	Naphthalene	300 U		936	634	68	535	57*	17	58-94/31
85-01-8	Phenanthrene	300 U		936	666	71	652	69	2	65-100/33
129-00-0	Pyrene	300 U		936	703	75	778	83	10	62-107/37

CAS No.	Surrogate Recoveries	MS	MSD	F63891-3	Limits
4165-60-0	Nitrobenzene-d5	76%	63%	72%	40-105%
321-60-8	2-Fluorobiphenyl	71%	61%	68%	43-107%
1718-51-0	Terphenyl-d14	77%	85%	88%	45-119%