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FIRST QUARTER SECOND YEAR GROUNDWATER MONITORING LETTER REPORT FOR NORTH SOUTH APRON PLUME NAS CECIL FIELD FL

11/8/2006

TETRA TECH NUS INC

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November 8, 2006

Project Number 112G00378

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 IV Contract Number N62467-04-D-0055
Contract Task Order 0025

Subject: Groundwater Monitoring Report, 1st Quarter, 2nd Year (July 2006)
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Quarterly Groundwater Monitoring Report for the referenced Contract Task Order for the North-South Apron Plume. This Groundwater Monitoring Report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055.

The primary objective of this effort is to monitor groundwater associated with the intermediate and deep zones of the shallow surficial aquifer at this site quarterly. The sampling program was accomplished in general accordance with the Natural Attenuation Monitoring Plan Approval Order issued by the Florida Department of Environmental Protection (FDEP) on March 16, 2001, based on Chapter 62-770.690, Florida Administrative Code (see Attachment A). This report summarizes the field operations and analytical results for the subject site for the sampling event conducted on July 6 and 7, 2006. Figure 1 shows the location of the site.

FIELD OPERATIONS

Field operations were performed in general accordance with FDEP and TtNUS Standard Operating Procures. Groundwater samples were collected using low flow methods from the three intermediate monitoring wells (CEF-M18-04I, CEF-M18-05I, and CEF-M18-09I) and one deep monitoring well (CEF-M18-12D) listed in the Supplemental Site Assessment Letter Report II and Natural Attenuation Monitoring Plan. Following collection, the groundwater samples were placed on ice and shipped under chain of custody to Accutest Laboratories in Orlando, Florida for analysis. All samples were analyzed for the contaminants of concern (COCs) benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (USEPA) Method SW-846 8260B.

RESULTS

The groundwater level elevations in the monitoring wells ranged from 65.83 to 67.11 feet below land surface. The depth-to-water measurements, along with top-of-casing elevations, were used to calculate groundwater elevations. Table 1 provides the groundwater elevation data. Figure 2 shows the direction of groundwater flow to the southeast in the intermediate zone. The groundwater elevations from the shallow wells and the deep well were not used in the calculation of groundwater flow direction.

The analytical results for this event are summarized in Table 2, and the laboratory report is provided as Attachment B. The results indicate that the action levels (Natural Attenuation Default Source Criteria) for benzene and total xylenes, as defined by the FDEP Monitoring Plan Order, were not exceeded in the groundwater samples from this event. Table 2 indicates that the Groundwater Cleanup Target Level (GCTL) for benzene was exceeded in CEF-M18-4I and CEF-M18-9I. Other BTEX compounds were detected in the contaminated wells, but at concentrations less than their respective GCTLs.

A comparison to these results to the February/March 2005 results shows that benzene concentrations have increased slightly in CEF-M18-4I, but have decreased significantly in CEF-M18-9I. No contaminants were detected in CEF-M18-5I or CEF-M18-12D during either event.

Table 2 also shows that the benzene concentrations in CEF-M18-4I are greater than the levels of benzene detected in 2005. No COCs were detected in intermediate perimeter well CEF-M18-05I or deep well CEF-M18-12D. Figure 3 displays the analytical results for this event. Table 3 summarizes the historical sampling data for all site monitoring wells.

CONCLUSIONS AND RECOMMENDATIONS

During the July 2006 event, benzene concentrations increased at CEF-M18-04I and decreased at CEF-M18-09I. No COCs were detected in the perimeter well CEF-M18-5I or deep well CEF-M18-12D.

The 2nd Quarter, 2nd Year sampling event is scheduled for November 2006. Groundwater samples will be collected from CEF-MW-4I, CEF-MW-5I, CEF-MW-9I, and CEF-MW-12D and will be analyzed for BTEX compounds using USEPA Method SW-846 8260B. A 2nd Quarter, 2nd Year Groundwater Monitoring Report will be prepared when the results from the sampling event have been received and evaluated.

If you have any questions with regard to this submittal, please contact me at (904) 636-6125.

Sincerely,

Mark Peterson, Task Order Manager
Florida Professional Geologist
PG Number 1917

Terry Cottenoir
Geologist
Tetra Tech NUS, Inc.

Enclosures (8)

c: Mark Davidson, NAVFAC SE
Mike Halil, CH2M Hill
Mark Jonnet, TtNUS
Mark Speranza, TtNUS
Rob Simcik, TtNUS
Mark Perry, TtNUS
Debbie Humbert (letter only), TtNUS
Julie Johnson, Library File
CTO 0025 Project File

TABLES

Table 1
Groundwater Elevation Data

Quarterly Monitoring Report
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Well Depth (feet, btoc)	TOC Elevation (feet, msl)	November 6, 2001		February 14, 2002		October 23, 2002		February 23, 2005		July 6, 2006	
			Depth to Water (feet, btoc)	Water-Level Elevation (feet, above msl)	Depth to Water (feet, btoc)	Water-Level Elevation (feet, above msl)	Depth to Water (feet, btoc)	Water-Level Elevation (feet, above msl)	Depth to Water (feet, btoc)	Water-Level Elevation (feet, above msl)	Depth to Water (feet, btoc)	Water-Level Elevation (feet, above msl)
CEF-M18-01S	15	75.89	6.28	69.61	6.25	69.64	NM	NM	7.17	68.72	NM	NM
CEF-M18-02S	15	76.02	7.61	68.41	7.41	68.61	7.37	68.65	7.97	68.05	NM	NM
CEF-M18-02I	35	75.78	7.39	68.39	7.21	68.57	7.14	68.64	7.79	67.99	NM	NM
CEF-M18-03I	35	75.13	6.75	68.38	6.56	68.57	6.48	68.65	7.24	67.89	NM	NM
CEF-M18-04I	35	74.66	7.20	67.46	6.91	67.75	6.87	67.79	7.71	66.95	8.01	66.65
CEF-M18-05I	35	73.42	6.83	66.59	6.47	66.95	6.47	66.95	7.35	66.07	7.59	65.83
CEF-M18-06I	35	76.11	NE	NE	NE	NE	7.55	68.56	8.18	67.93	NM	NM
CEF-M18-07I	35	76.26	NE	NE	NE	NE	7.45	68.81	8.14	68.12	NM	NM
CEF-M18-08I	35	75.54	NE	NE	NE	NE	6.80	68.74	7.49	68.05	NM	NM
CEF-M18-09I	35	74.32	NE	NE	NE	NE	6.17	68.15	6.98	67.34	7.32	67.00
CEF-M18-10I	35	74.98	NE	NE	NE	NE	NM	NM	8.33	66.65	NM	NM
CEF-M18-11D	55	75.80	NE	NE	NE	NE	NE	NE	7.74	68.06	NM	NM
CEF-M18-12D	55	74.14	NE	NE	NE	NE	NE	NE	6.70	67.44	7.03	67.11

First quarter (May 2001) data were not included.
The TOC elevation of CEF-M18-2I has been corrected.
TOC = Top of casing.
btoc = Below top of casing.

NE = Well was installed after the date of measurement.
NM = not measured.
msl = Mean sea level.

Table 2
Summary of BTEX Detections in Groundwater

Quarterly Monitoring Report
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	GCTL	NADSC	CEF-M18-04I									
			03/23/00	03/28/00	09/14/00	05/02/01	08/07/01	08/07/01	11/06/01	02/14/02	3/1/2005	7/7/2006
VOCs (µg/L)												
Benzene	1	100	1.0 U	1.0 U	**7.7**	**8.0**	**8.7**	**8.7**	**8.8**	**9.1**	**13.1**	**13.3**
Toluene	40	400	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 J	2.0 U	2.0 U	0.50 U	0.5 U
Ethylbenzene	30	300	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 J	2.0 U	2.0 U	0.50 U	0.5 U
Xylenes, total	20	200	3.0 U	3.0 U	6.0 U	6.0 U	6.0 U	6.0 J	6.0 U	6.0 U	1.0 U	1 U

Parameter	GCTL	NADSC	CEF-M18-05I							
			11/30/00		05/02/01	08/07/01	11/06/01	02/14/02	03/01/05	7/7/2006
			Sample	Duplicate						
VOCs (µg/L)										
Benzene	1	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 J	1.0 U	0.50 U	0.5 U
Toluene	40	400	2.0 U	2.0 U	2.0 U	2.0 U	2.0 J	2.0 U	0.50 U	0.5 U
Ethylbenzene	30	300	2.0 U	2.0 U	2.0 U	2.0 U	2.0 J	2.0 U	0.50 U	0.5 U
Xylenes, total	20	200	6.0 U	6.0 U	6.0 U	6.0 U	6.0 J	6.0 U	1.0 U	1 U

Parameter	GCTL	NADSC	CEF-M18-09I				CEF-M18-12D			
			10/23/02	02/28/05	7/6/2006	7/7/2006	07/11/03		02/28/05	7/6/2006
					Sample	Duplicate	Sample	Duplicate		
VOCs (µg/L)										
Benzene	1	100	**14.5**	**16.0**	**3.5**	**3.5**	**1.2**	**1.1**	0.55	0.5 U
Toluene	40	400	1.0 U	0.50 U	0.5 U	0.5 U	1.0 U	1.0 U	0.50 U	0.5 U
Ethylbenzene	30	300	1.0 U	0.50 U	0.5 U	0.5 U	1.0 U	1.0 U	0.50 U	0.5 U
Xylenes, total	20	200	3.0 U	1.0 U	1 U	1 U	3.0 U	3.0 U	1.0 U	1 U

Florida Department of Environmental Protection Groundwater Cleanup Target Level from Chapter 62-777, Florida Administrative Code.
Natural Attenuation Default Source Concentration from Chapter 62-777, Florida Administrative Code.
U = not detected at detection limit shown
Bold indicates concentration greater than FDEP criterion.
µg/L = Micrograms per liter.

Table 3
Summary of BTEX Detections in Groundwater

Quarterly Monitoring Report
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	GCTL	NADSC	CEF-M18-01S						CEF-M18-02I					
			01/20/00	09/14/00	11/30/00	05/02/01	08/07/01	03/01/05	01/19/00 Sample	01/19/00 Duplicate	09/14/00	05/02/01	08/07/01	11/06/01
VOCs (µg/L)														
Benzene	1	100	1.0 U	1.0 U	1.0 U	1.0 U	NS	0.50 U	**5.3**	**5.3**	**2.5**	**3.8**	**2.8**	**5.6**
Toluene	40	400	1.0 U	2.0 U	2.0 U	2.0 U	NS	0.50 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	0.68 J
Ethylbenzene	30	300	1.0 U	2.0 U	2.0 U	2.0 U	NS	0.50 U	7.2	7	1.0 U	0.95 J	1.0 J	5.8
Xylenes, total	20	200	3.0 U	6.0 U	6.0 U	6.0 U	NS	1.0 U	**68.2**	**67.4**	3.1	12.9	7	**54.4**

Parameter	GCTL	NADSC	CEF-M18-02I (continued)				CEF-M18-02S				CEF-M18-03I					
			02/14/02		02/28/05		03/28/00	09/14/00	08/07/01	02/28/05	09/14/00	05/02/01	08/07/01	11/06/01	02/14/02	02/28/05
			Sample	Duplicate	Sample	Duplicate										
VOCs (µg/L)																
Benzene	1	100	**8.3**	**8.6**	0.85	0.87	1.0 U	1.0 U	NS	0.50 U	**7**	**4.6**	**4.1**	**4**	**3.7**	0.50 U
Toluene	40	400	0.89 J	1 J	0.50 U	0.50 U	1.0 U	2.0 U	NS	0.50 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U
Ethylbenzene	30	300	9.4	9.5	0.50 U	0.50 U	1.0 U	2.0 U	NS	0.50 U	4.6	1.1 J	1.7J	1.8 J	1.2 J	0.50 U
Xylenes, total	20	200	**139**	**147**	11.3	11.8	3.0 U	6.0 U	NS	1.0 U	**27.5**	5.3 J	10.5	11	6.6	1.0 U

Parameter	GCTL	NADSC	CEF-M18-04I										CEF-M18-05I			
			03/28/00		09/14/00	05/02/01	08/07/01		11/06/01	02/14/02	3/1/2005	7/7/2006	11/30/00		05/02/01	08/07/01
			Sample	Duplicate			Sample	Duplicate					Sample	Duplicate		
VOCs (µg/L)																
Benzene	1	100	1.0 U	1.0 U	**7.7**	**8.0**	**8.7**	**8.7**	**8.8**	**9.1**	**13.1**	13.3	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	40	400	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	30	300	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Xylenes, total	20	200	3.0 U	3.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	1.0 U	1 U	6.0 U	6.0 U	6.0 U	6.0 U

Table 3
Summary of BTEX Detections in Groundwater

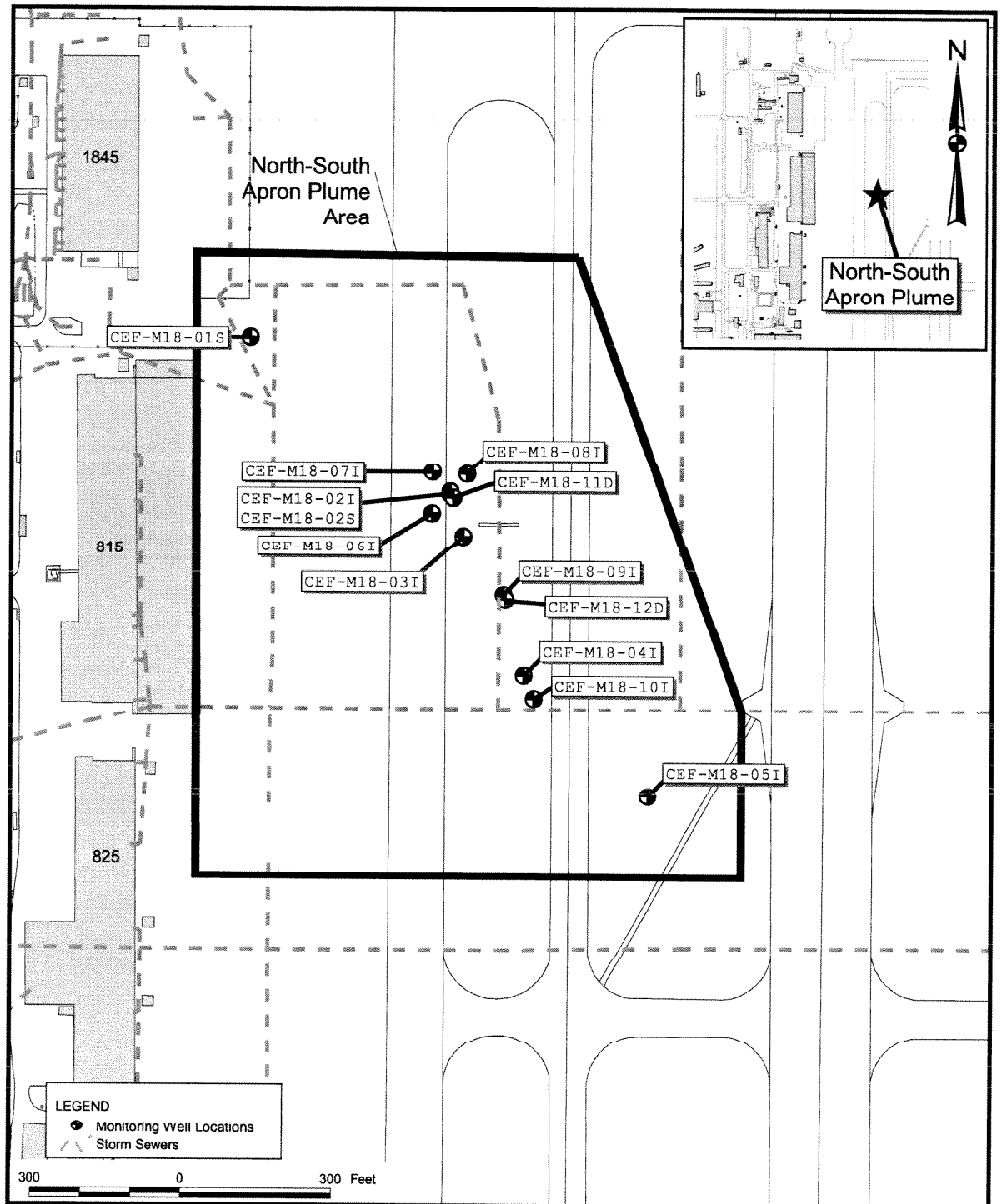
Quarterly Monitoring Report
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Parameter	GCTL	NADSC	CEF-M18-05I (continued)				CEF-M18-06I			CEF-M18-07I		CEF-M18-08I	
			02/14/02	03/01/05	11/06/01	7/7/2006	10/23/02		02/25/05	10/23/02	02/25/05	10/23/02	02/28/05
							Sample	Duplicate					
VOCs (µg/L)													
Benzene	1	100	1.0 U	0.50 U	1.0 U	0.5 U	0.72 J	0.78 J	1.0	**1.6**	0.50 U	**1.4**	0.50 U
Toluene	40	400	2.0 U	0.50 U	2.0 U	0.5 U	2.3	2.8	0.50 U	1.0 U	0.50 U	0.8 J	0.50 U
Ethylbenzene	30	300	2.0 U	0.50 U	2.0 U	0.5 U	1.0 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U
Xylenes, total	20	200	6.0 U	1.0 U	6.0 U	1 U	3.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U

Parameter	GCTL	NADSC	CEF-M18-09I				CEF-M18-10I		CEF-M18-11D		CEF-M18-12D			
			10/23/02	02/28/05	7/6/2006		10/23/02	03/01/05	07/11/03	02/28/05	07/11/03		02/28/05	7/6/2006
					Sample	Duplicate					Sample	Duplicate		
VOCs (µg/L)														
Benzene	1	100	**14.5**	**16.0**	**3.5**	**3.5**	**9.3**	**10.7**	1.0 U	0.50 U	**1.2**	**1.1**	0.55	0.5 U
Toluene	40	400	1.0 U	0.50 U	0.5 U	0.5 U	3.8	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	0.5 U
Ethylbenzene	30	300	1.0 U	0.50 U	0.5 U	0.5 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	0.5 U
Xylenes, total	20	200	3.0 U	1.0 U	1 U	1 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	3.0 U	1.0 U	1 U

Florida Department of Environmental Protection Groundwater Cleanup Target Level from Chapter 62-777, Florida Administrative Code.
Natural Attenuation Default Source Concentration from Chapter 62-777, Florida Administrative Code.
U = Not detected at detection limit shown.
Bold indicates concentration greater than FDEP criterion.
µg/L = Micrograms per liter.
NS = Not sampled.
J = Estimated.

FIGURES



DRAWN BY MJJ	DATE 30Mar05	MONITORING WELL LOCATION MAP NORTH-SOUTH APRON PLUME QUARTERLY MONITORING REPORT NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0378
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED		NAVFAC	DRAWING NO. FIGURE 1 / REV 0

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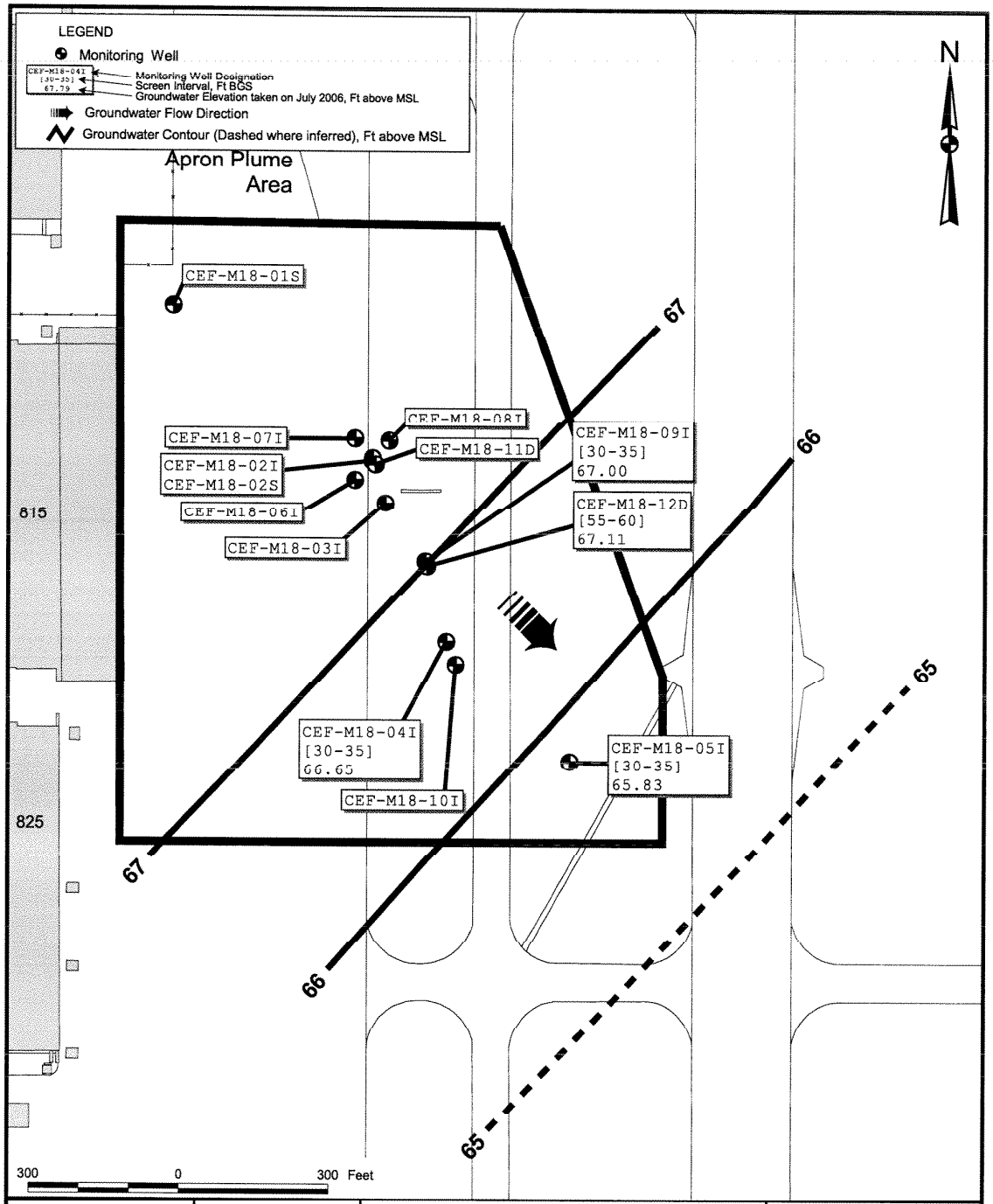

DRAWN BY MJJ	DATE 30Mar05	GROUNDWATER FLOW MAP (JULY 2006) NORTH-SOUTH APRON PLUME QUARTERLY MONITORING REPORT NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0378
CHECKED BY	DATE		APPROVED BY DATE
GOOT/GCI/CEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 2 / REV 0

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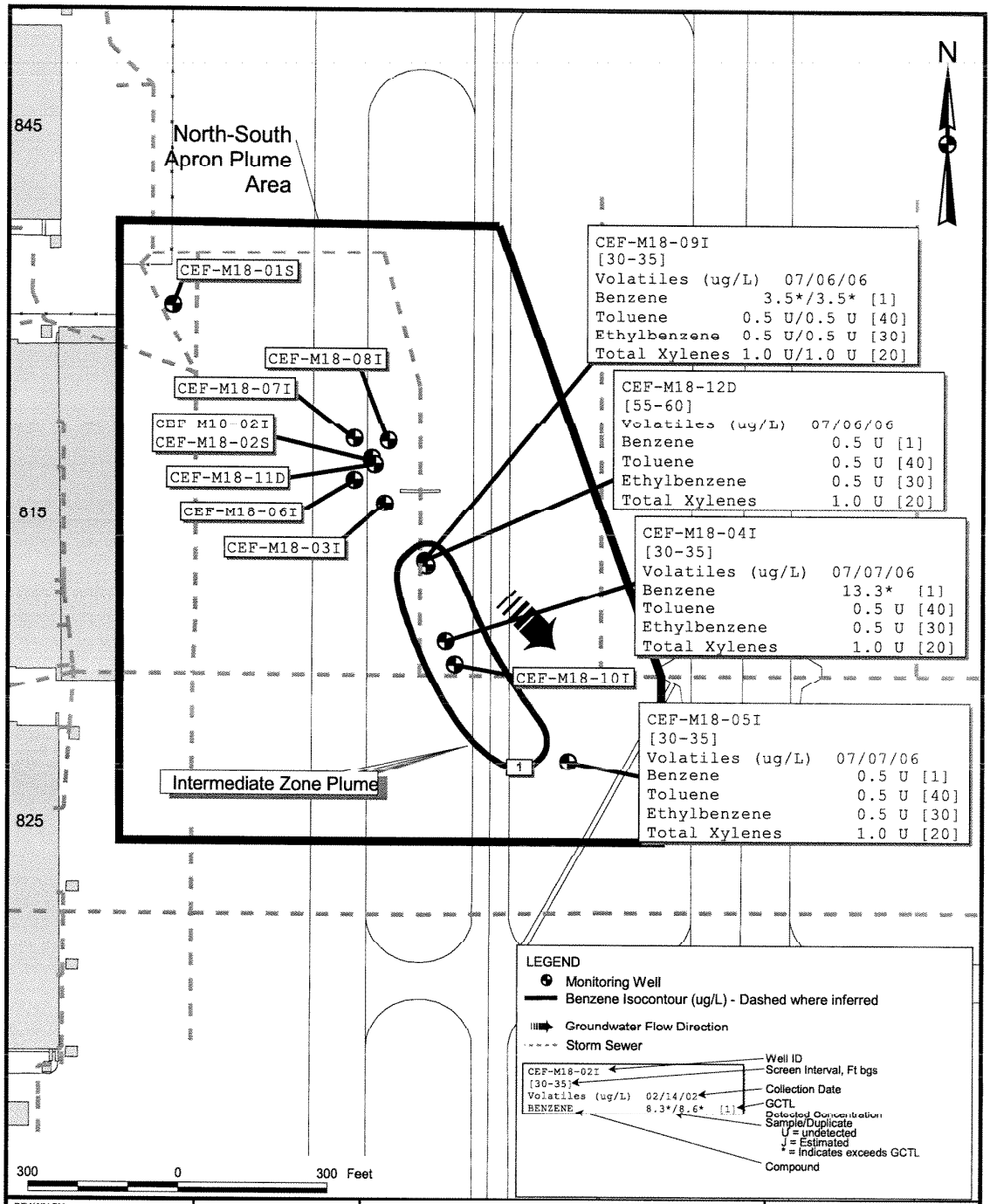

DRAWN BY	DATE			CONTRACT NUMBER
MJJ	30Mar05		GROUNDWATER BTEX RESULTS	0378
CHECKED BY	DATE		NORTH-SOUTH APRON PLUME	APPROVED BY / DATE
COST/SCHEDULE AREA		NAVFAC	QUARTERLY MONITORING REPORT	APPROVED BY / DATE
SCALE AS NOTED			NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	DRAWING NO. FIGURE 3 / REV 0

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ATTACHMENT A

MONITORING PLAN APPROVAL ORDER

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 Monitoring Plan Approval Order
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Duval County

Dear Mr. Magwood:

The Bureau of Waste Cleanup has reviewed the Supplemental Site Assessment Letter Report II 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-M18-04I; CEF-M18-09I; CEF-M18-12D; and CEF-M18-05I	BTEX	Quarterly	One year

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.

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 well[s]:
CEF-M18-04I and CEF-M18-09I: 100 µg/L Benzene
Perimeter well[s] (temporary point[s] of compliance):
CEF-M18-12D and CEF-M18-05I: 1 µg/L Benzene

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 II 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 II 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.

_____ _____
Clerk Date
(or Deputy Clerk)

ATTACHMENT B

GROUNDWATER ANALYTICAL REPORT

e-Hardcopy 2.0
Automated Report

Southeast ACCUTEST LABORATORIES

IT'S ALL IN THE CHEMISTRY

07/28/06

Technical Report for

Tetra Tech NUS

Cecil Field - N/S Apron

112G00378, PO#1008344

Accutest Job Number: F41973

Sampling Dates: 07/06/06 - 07/07/06

Report to:

Tetra-Tech.Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, PA 15220

ATTN: Amy Thomson

Total number of pages in report: 33

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

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.

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Sample Summary

Tetra Tech NUS

Cecil Field - N/S Apron
Project No: 112G00378, PO#1008344

Job No: F41973

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F41973-1	07/06/06	00:00 TC	07/08/06	AQ	Ground Water	CEF-M18-DUP01-20060706
F41973-2	07/06/06	14:50 TC	07/08/06	AQ	Ground Water	CEF-M18-09I-20060706
F41973-3	07/06/06	15:30 TC	07/08/06	AQ	Ground Water	CEF-M18-12D-20060706
F41973-4	07/07/06	09:00 TC	07/08/06	AQ	Equipment Blank	CEF-M18-EB01-20060707
F41973-5	07/07/06	10:42 TC	07/08/06	AQ	Ground Water	CEF-M18-04I-20060707
F41973-6	07/07/06	11:14 TC	07/08/06	AQ	Ground Water	CEF-M18-05I-20060707
F41973-7	07/07/06	00:00 TC	07/08/06	AQ	Trip Blank Water	CEF M18 TRIPBLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F41973

Site: Cecil Field - N/S Apron **Report Date** 7/28/2006 10:49:47

6 Samples, 1 Trip Blank were collected on between 07/06/2006 and 07/07/2006 and received at Accutest on 07/08/2006 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of F41973. 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:** VC1710

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F42068-1MS, F42068-1MSD 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:

Svetlana Izosimova, QAO (signature on file)

Date: July 28, 2006

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-M18-DUP01-20060706		
Lab Sample ID:	F41973-1	Date Sampled:	07/06/06
Matrix:	AQ - Ground Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042294.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.5	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	106%		83-119%

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-M18-09I-20060706		
Lab Sample ID:	F41973-2	Date Sampled:	07/06/06
Matrix:	AQ - Ground Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042295.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.5	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

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-M18-12D-20060706		
Lab Sample ID:	F41973-3	Date Sampled:	07/06/06
Matrix:	AQ - Ground Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042296.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	105%		83-119%

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-M18-EB01-20060707		
Lab Sample ID:	F41973-4	Date Sampled:	07/07/06
Matrix:	AQ - Equipment Blank	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042297.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

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-M18-04I-20060707		
Lab Sample ID:	F41973-5	Date Sampled:	07/07/06
Matrix:	AQ - Ground Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042298.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13.3	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		86-115%
17060-07-0	1,2-Dichloroethane-D4	93%		73-126%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

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-M18-05I-20060707		
Lab Sample ID:	F41973-6	Date Sampled:	07/07/06
Matrix:	AQ Ground Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042299.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		86-115%
17060-07-0	1,2-Dichloroethane-D4	93%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

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-M18-TRIPBLANK		
Lab Sample ID:	F41973-7	Date Sampled:	07/07/06
Matrix:	AQ - Trip Blank Water	Date Received:	07/08/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field - N/S Apron		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0042300.D	1	07/19/06	KW	n/a	n/a	VC1710
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		86-115%
17060-07-0	1,2-Dichloroethane-D4	93%		73-126%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER 3308 F41973 PAGE 1 OF 1

PROJECT NO: 112G00378	FACILITY: N/S APRON	PROJECT MANAGER: MARK PETERSON	PHONE NUMBER: (904) 636-6125
LABORATORY NAME AND CONTACT: ACCUTEST / H. WANDREY	SAMPLERS (SIGNATURE): Terry Cottenoir	FIELD OPERATIONS LEADER: TERRY COTTENOIR	PHONE NUMBER: (904) 636-6125
ADDRESS: 4405 VINELAND RD C-15	CARRIER/WAYBILL NUMBER: COURIER PICK-UP	CITY, STATE: ORLANDO, FL 32811	

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCL

	DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SJ, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS BTEX / 8260	COMMENTS
1	7/6	0000	CEF-MIB-DUP01-20060706				GW	G	3	X	Cool To 4°C
2	7/6	1450	CEF-MIB-09I-20060706				GW	G	3	X	
3	7/6	1530	CEF-MIB-12D-20060706				GW	G	3	X	
4	7/7	0900	CEF-MIB-EB01-20060707				QC	G	3	X	
5	7/7	1042	CEF-MIB-04I-20060707				GW	G	3	X	
6	7/7	1114	CEF-MIB-05I-20060707				GW	G	3	X	
7	7/7	0000	CEF-MIB-TRIPBLANK				QC		2	X	

1. RELINQUISHED BY: Terry Cottenoir	DATE: 7/7/06	TIME: 16:00	1. RECEIVED BY: (ALSE)	DATE: 7/7/06	TIME: 16:00
2. RELINQUISHED BY: (ALSE)	DATE	TIME	2. RECEIVED BY: ACOE	DATE: 7/8/06	TIME: 8:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

1.6 FORM NO. TINUS-001

4.1

F41973: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F41973 CLIENT: TetraTech PROJECT: N/S APRON

DATE/TIME RECEIVED: 7/8/06 8:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.6

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

AIRBILL NUMBERS:

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] 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

MISC. INFORMATION

NUMBER OF ENCORES ? X

NUMBER OF 5035 FIELD KITS ? X

NUMBER OF LAB FILTERED METALS ? X

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] 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 FROZEN WITHIN 48 HOUR'S

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 7/8/06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

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: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1710-MB	C0042289.D	1	07/19/06	KW	n/a	n/a	VC1710

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

F41973-1, F41973-2, F41973-3, F41973-4, F41973-5, F41973-6, F41973-7

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	103%	73-126%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	106%	83-119%

Blank Spike Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1710-BS	C0042288.D	1	07/19/06	KW	n/a	n/a	VC1710

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

F41973-1, F41973-2, F41973-3, F41973-4, F41973-5, F41973-6, F41973-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.1	96	80-120
100-41-4	Ethylbenzene	25	25.7	103	82-115
108-88-3	Toluene	25	25.0	100	81-114
1330-20-7	Xylene (total)	75	79.4	106	81-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	86-115%
17060-07-0	1,2-Dichloroethane-D4	113%	73-126%
2037-26-5	Toluene-D8	102%	86-112%
460-00-4	4-Bromofluorobenzene	99%	83-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F42068-1MS	C0042291.D	1	07/19/06	KW	n/a	n/a	VC1710
F42068-1MSD	C0042292.D	1	07/19/06	KW	n/a	n/a	VC1710
F42068-1	C0042290.D	1	07/19/06	KW	n/a	n/a	VC1710

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

F41973-1, F41973-2, F41973-3, F41973-4, F41973-5, F41973-6, F41973-7

CAS No.	Compound	F42068-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.7		25	30.0	101	29.0	97	3	72-125/7
100-41-4	Ethylbenzene	1.0		25	26.4	102	25.1	96	5	73-119/8
108-88-3	Toluene	9.2		25	33.9	99	32.3	92	5	67-123/8
1330-20-7	Xylene (total)	4.9		75	83.3	105	79.4	99	5	73-122/7

CAS No.	Surrogate Recoveries	MS	MSD	F42068-1	Limits
1868-53-7	Dibromofluoromethane	99%	101%	96%	86-115%
17060-07-0	1,2-Dichloroethane-D4	106%	108%	98%	73-126%
2037-26-5	Toluene-D8	101%	100%	102%	86-112%
460-00-4	4-Bromofluorobenzene	99%	100%	107%	83-119%

Instrument Performance Check (BFB)

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample:	VC1710-BFB	Injection Date:	07/19/06
Lab File ID:	C0042278.D	Injection Time:	10:28
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	28400	22.2		Pass
75	30.0 - 60.0% of mass 95	54784	42.8		Pass
95	Base peak, 100% relative abundance	127976	100.0		Pass
96	5.0 - 9.0% of mass 95	8606	6.7		Pass
173	Less than 2.0% of mass 174	505	0.39	(0.48) [a]	Pass
174	50.0 - 100.0% of mass 95	104202	81.4		Pass
175	5.0 - 9.0% of mass 174	7477	5.8	(7.2) [a]	Pass
176	95.0 - 101.0% of mass 174	99592	77.8	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	6484	5.1	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC1710-IC1710	C0042279.D	07/19/06	10:54	00:26	Initial cal 1
VC1710-IC1710	C0042280.D	07/19/06	11:22	00:54	Initial cal 2
VC1710-IC1710	C0042281.D	07/19/06	11:49	01:21	Initial cal 3
VC1710-ICC1710	C0042282.D	07/19/06	12:16	01:48	Initial cal 4
VC1710-IC1710	C0042283.D	07/19/06	12:44	02:16	Initial cal 6
VC1710-IC1710	C0042284.D	07/19/06	13:11	02:43	Initial cal 5
VC1710-ICV1710	C0042285.D	07/19/06	13:59	03:31	Initial cal verification 4

Instrument Performance Check (BFB)

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample:	VC1710-BFB	Injection Date:	07/19/06
Lab File ID:	C0042286.D	Injection Time:	14:22
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	24010	21.2		Pass
75	30.0 - 60.0% of mass 95	49232	43.5		Pass
95	Base peak, 100% relative abundance	113269	100.0		Pass
96	5.0 - 9.0% of mass 95	7995	7.1		Pass
173	Less than 2.0% of mass 174	539	0.48	(0.59) [a]	Pass
174	50.0 - 100.0% of mass 95	91786	81.0		Pass
175	5.0 - 9.0% of mass 174	6235	5.5	(6.8) [a]	Pass
176	95.0 - 101.0% of mass 174	89237	78.8	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	5287	4.7	(5.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC1710-CC1710	C0042287.D	07/19/06	14:48	00:26	Continuing cal 4
VC1710-BS	C0042288.D	07/19/06	15:15	00:53	Blank Spike
VC1710-MB	C0042289.D	07/19/06	15:42	01:20	Method Blank
F42068-1	C0042290.D	07/19/06	16:09	01:47	(used for QC only; not part of Job F41973)
F42068-1MS	C0042291.D	07/19/06	16:37	02:15	Matrix Spike
F42068-1MSD	C0042292.D	07/19/06	17:04	02:42	Matrix Spike Duplicate
ZZZZZZ	C0042293.D	07/19/06	17:31	03:09	(unrelated sample)
F41973-1	C0042294.D	07/19/06	17:59	03:37	CEF-M18-DUP01-20060706
F41973-2	C0042295.D	07/19/06	18:26	04:04	CEF-M18-09I-20060706
F41973-3	C0042296.D	07/19/06	18:54	04:32	CEF-M18-12D-20060706
F41973-4	C0042297.D	07/19/06	19:21	04:59	CEF-M18-EB01-20060707
F41973-5	C0042298.D	07/19/06	19:49	05:27	CEF-M18-04I-20060707
F41973-6	C0042299.D	07/19/06	20:16	05:54	CEF-M18-05I-20060707
F41973-7	C0042300.D	07/19/06	20:44	06:22	CEF-M18-TRIPBLANK
ZZZZZZ	C0042301.D	07/19/06	21:11	06:49	(unrelated sample)
ZZZZZZ	C0042302.D	07/19/06	21:38	07:16	(unrelated sample)
ZZZZZZ	C0042303.D	07/19/06	22:05	07:43	(unrelated sample)
ZZZZZZ	C0042304.D	07/19/06	22:32	08:10	(unrelated sample)
ZZZZZZ	C0042305.D	07/19/06	22:59	08:37	(unrelated sample)
ZZZZZZ	C0042306.D	07/19/06	23:26	09:04	(unrelated sample)
ZZZZZZ	C0042307.D	07/19/06	23:53	09:31	(unrelated sample)
ZZZZZZ	C0042308.D	07/20/06	00:20	09:58	(unrelated sample)
ZZZZZZ	C0042309.D	07/20/06	00:47	10:25	(unrelated sample)
ZZZZZZ	C0042310.D	07/20/06	01:14	10:52	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample:	VC1710-BFB	Injection Date:	07/19/06
Lab File ID:	C0042286.D	Injection Time:	14:22
Instrument ID:	GCMSC		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	C0042311.D	07/20/06	01:41	11:19	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Check Std:	VC1710-CC1710	Injection Date:	07/19/06
Lab File ID:	C0042287.D	Injection Time:	14:48
Instrument ID:	GCMSC	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	1832052	10.23	1432924	13.46	628702	16.00	228527	7.46
Upper Limit [a]	3664104	10.73	2865848	13.96	1257404	16.50	457054	7.96
Lower Limit [b]	916026	9.73	716462	12.96	314351	15.50	114264	6.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC1710-BS	1782617	10.23	1376698	13.47	593966	16.01	226629	7.46
VC1710-MB	1652541	10.23	1216083	13.47	445377	16.01	199700	7.46
F42068-1	2524661	10.23	1834056	13.47	657161	16.01	295399	7.46
F42068-1MS	2713184	10.23	2080062	13.47	875551	16.01	329537	7.46
F42068-1MSD	2707352	10.23	2110727	13.47	878785	16.01	334598	7.46
ZZZZZZ	2450368	10.23	1741226	13.47	593421	16.01	289280	7.46
F41973-1	2343651	10.23	1663987	13.47	577946	16.01	272956	7.46
F41973-2	2300823	10.23	1607813	13.47	564017	16.01	261845	7.46
F41973-3	2180344	10.23	1520540	13.47	527620	16.01	240319	7.46
F41973-4	2101805	10.23	1473114	13.47	507397	16.01	220371	7.46
F41973-5	2098746	10.23	1449111	13.47	495544	16.01	211124	7.47
F41973-6	1961986	10.23	1387738	13.47	473289	16.01	196018	7.47
F41973-7	1908071	10.23	1349119	13.47	459218	16.01	185240	7.47
ZZZZZZ	1846196	10.23	1309461	13.47	444475	16.01	176728	7.46
ZZZZZZ	1852092	10.23	1301667	13.47	449677	16.01	166015	7.47
ZZZZZZ	1782485	10.23	1250437	13.47	411120	16.01	157302	7.46
ZZZZZZ	1812160	10.23	1265492	13.47	427654	16.01	160258	7.46
ZZZZZZ	1690770	10.23	1187761	13.47	388265	16.01	144829	7.46
ZZZZZZ	1680790	10.23	1181771	13.47	394143	16.01	139724	7.47
ZZZZZZ	1614531	10.23	1129658	13.47	368129	16.01	135806	7.46
ZZZZZZ	1709001	10.23	1271198	13.47	477035	16.01	138235	7.46
ZZZZZZ	1642512	10.23	1145125	13.47	375859	16.01	129438	7.46
ZZZZZZ	1659404	10.23	1171054	13.47	386274	16.01	122353	7.47
ZZZZZZ	1566135	10.23	1099714	13.47	367738	16.02	118644	7.46

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F41973-1	C0042294.D	95.0	97.0	106.0	106.0
F41973-2	C0042295.D	94.0	96.0	106.0	104.0
F41973-3	C0042296.D	92.0	96.0	106.0	105.0
F41973-4	C0042297.D	94.0	94.0	107.0	103.0
F41973-5	C0042298.D	91.0	93.0	107.0	103.0
F41973-6	C0042299.D	93.0	93.0	106.0	103.0
F41973-7	C0042300.D	94.0	93.0	105.0	103.0
F42068-1MS	C0042291.D	99.0	106.0	101.0	99.0
F42068-1MSD	C0042292.D	101.0	108.0	100.0	100.0
VC1710-BS	C0042288.D	103.0	113.0	102.0	99.0
VC1710-MB	C0042289.D	99.0	103.0	103.0	106.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	86-115%
S2 = 1,2-Dichloroethane-D4	73-126%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	83-119%

Initial Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICC1710
Lab FileID: C0042282.D

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\8260C.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Jul 20 08:29:58 2006
Response via : Initial Calibration

Calibration Files
1 =C0042279.D 2 =C0042280.D 3 =C0042281.D 4 =C0042282.D
5 =C0042284.D 6 =C0042283.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.433	0.322	0.336	0.344	0.361	0.363	0.360	10.83
3)	P	Chloromethane	0.596	0.429	0.433	0.431	0.402	0.415	0.451	15.94
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9991								
		Response Ratio = 0.00000 + 0.41315 *A								
4)	C	Vinyl Chloride	0.375	0.278	0.307	0.291	0.270	0.275	0.299	13.18
5)		Bromomethane	0.163	0.136	0.132	0.126	0.117	0.117	0.132	12.99
6)		Chloroethane	0.155	0.121	0.132	0.130	0.121	0.123	0.130	10.01
7)		Trichlorofluorometh	0.316	0.242	0.275	0.276	0.279	0.279	0.278	8.42
8)		1,2-Dichlorotrifluo	0.508	0.392	0.380	0.388	0.372	0.361	0.400	13.44
9)		Ethyl ether	0.324	0.290	0.275	0.279	0.292	0.273	0.289	6.52
10)		Acrolein	0.017	0.010	0.010	0.012	0.013	0.012	0.012	21.41
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9983								
		Response Ratio = 0.00000 + 0.01229 *A								
11)		Freon 113	0.356	0.291	0.289	0.296	0.278	0.270	0.297	10.22
12)		Acetone	0.097	0.088	0.079	0.084	0.086	0.082	0.086	7.37
13)	C	1,1-Dichloroethene	0.627	0.520	0.527	0.528	0.528	0.503	0.539	8.23
14)		Iodomethane	0.574	0.486	0.477	0.494	0.501	0.487	0.503	7.03
15)		Methyl Acetate	0.262	0.238	0.219	0.228	0.236	0.228	0.235	6.28
16)		Carbon Disulfide	1.295	1.003	1.012	1.008	0.923	0.913	1.026	13.56
17)		Methylene Chloride	1.716	0.774	0.589	0.570	0.571	0.541	0.793	57.96
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993								
		Response Ratio = 0.00000 + 0.61119 *A + -0.03445 *A^2								
18)		Acrylonitrile	0.110	0.099	0.105	0.109	0.116	0.112	0.108	5.30
19)		Methyl Tert Butyl E	0.881	0.848	0.783	0.790	0.801	0.758	0.810	5.62
20)		trans-1,2-Dichloroe	0.619	0.505	0.506	0.504	0.497	0.477	0.518	9.80
21)		Hexane	0.656	0.515	0.548	0.554	0.548	0.518	0.556	9.25
22)		Vinyl acetate	0.400	0.403	0.419	0.411	0.424	0.407	0.411	2.27
23)		Di-isopropyl ether	1.538	1.344	1.279	1.256	1.239	1.174	1.305	9.74
24)	P	1,1-Dichloroethane	0.786	0.640	0.613	0.592	0.567	0.537	0.622	14.10
25)		ETBE	1.082	1.009	0.946	0.970	0.986	0.943	0.989	5.22
26)		2-Butanone	0.134	0.147	0.133	0.144	0.150	0.146	0.142	4.92
27)		cis-1,2-Dichloroeth	0.497	0.370	0.363	0.363	0.336	0.319	0.375	16.78
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.38352 *A + -0.03250 *A^2								
28)		2,2-Dichloropropane	0.406	0.331	0.330	0.324	0.324	0.301	0.336	10.68
29)		Bromochloromethane	0.188	0.170	0.164	0.168	0.163	0.157	0.168	6.30
30)	C	Chloroform	0.645	0.538	0.517	0.526	0.509	0.483	0.536	10.51
31)		Tetrahydrofuran	0.127	0.121	0.099	0.098	0.104	0.101	0.108	11.58
32)	S	Dibromofluoromethan	0.250	0.238	0.244	0.245	0.253	0.251	0.247	2.28
33)		1,1,1-Trichloroetha	0.508	0.424	0.416	0.433	0.448	0.422	0.442	7.75
34)		Cyclohexane	0.829	0.641	0.685	0.685	0.674	0.645	0.693	10.01

Initial Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICC1710
Lab FileID: C0042282.D

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35)      1,1-Dichloropropene 0.487 0.411 0.418 0.419 0.407 0.387 0.421   8.08
36)      Carbon Tetrachlorid 0.373 0.327 0.333 0.343 0.366 0.339 0.347   5.31
37)  S   1,2-Dichloroethane- 0.279 0.275 0.285 0.272 0.295 0.288 0.282   3.05
38)      1,2-Dichloroethane  0.483 0.476 0.436 0.442 0.454 0.432 0.454   4.71
39)      Benzene             1.655 1.384 1.313 1.262 1.102 1.028 1.291  17.25
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 1.36960 *A + -0.17406 *A^2

40)      TAME                0.968 0.933 0.842 0.832 0.797 0.751 0.854   9.58
41)      Trichloroethene     0.396 0.328 0.325 0.334 0.319 0.305 0.334   9.44
42)  C   1,2-Dichloropropane 0.457 0.423 0.391 0.384 0.354 0.336 0.391  11.33
43)      Methylcyclohexane   0.629 0.547 0.552 0.548 0.494 0.465 0.539  10.49
44)      Dibromomethane      0.200 0.199 0.185 0.191 0.190 0.186 0.192   3.36
45)      Bromodichloromethan 0.462 0.447 0.428 0.442 0.443 0.429 0.442   2.87
46)      2-Nitropropane      0.053 0.065 0.065 0.073 0.081 0.080 0.069  15.54
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9904
               Response Ratio = 0.00000 + 0.07110 *A + 0.00096 *A^2

47)      2-Chloroethyl vinyl 0.151 0.174 0.181 0.185 0.173 0.162 0.171   7.49
48)      cis-1,3-Dichloropro 0.531 0.523 0.508 0.540 0.523 0.513 0.523   2.22
49)      4-Methyl-2-pentanon 0.291 0.334 0.308 0.322 0.327 0.311 0.315   4.85

50)  I   Chlorobenzene-d5       ----------------ISTD--------------------
51)  S   Toluene-d8           1.322 1.278 1.305 1.288 1.292 1.275 1.293   1.35
52)  C   Toluene             2.329 1.895 1.801 1.736 1.593 1.500 1.809  16.13
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 1.86679 *A + -0.18532 *A^2

53)      trans-1,3-Dichlorop 0.638 0.513 0.508 0.536 0.533 0.525 0.542   8.91
54)      1,1,2-Trichloroetha 0.350 0.362 0.329 0.325 0.304 0.293 0.327   8.06
55)      2-hexanone          0.211 0.238 0.229 0.248 0.260 0.247 0.239   7.11
56)      1,3-Dichloropropane 0.695 0.681 0.632 0.620 0.569 0.531 0.621  10.15
57)      Tetrachloroethene   0.522 0.415 0.409 0.403 0.380 0.351 0.413  14.06
58)      Dibromochloromethan 0.398 0.364 0.369 0.394 0.401 0.385 0.385   4.02
59)      1,2-Dibromoethane   0.330 0.346 0.335 0.351 0.352 0.345 0.343   2.53
60)      1-Chlorohexane      0.520 0.466 0.545 0.568 0.540 0.518 0.526   6.58
61)  P   Chlorobenzene       1.238 1.095 1.060 1.060 0.977 0.936 1.061   9.88
62)      1,1,1,2-Tetrachloro 0.392 0.388 0.365 0.353 0.328 0.301 0.354   9.93
63)  C   Ethylbenzene        2.081 1.855 1.886 1.817 1.625 1.505 1.795  11.34
64)      m,p-Xylene          1.547 1.377 1.405 1.347 1.222 1.110 1.335  11.37
65)      o-Xylene            1.586 1.436 1.482 1.414 1.268 1.145 1.388  11.36
66)      Styrene             0.985 1.000 1.057 1.039 0.956 0.869 0.984   6.85
67)  P   Bromoform           0.201 0.206 0.218 0.240 0.258 0.251 0.229  10.45

68)  I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
69)      Isopropylbenzene    4.501 3.756 3.619 3.537 3.207 3.013 3.605  14.35
70)      Cyclohexanone       0.034 0.031 0.023 0.024 0.025 0.024 0.027  17.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.02436 *A + 0.00002 *A^2

71)  S   4-Bromofluorobenzen 1.252 1.222 1.154 1.160 1.159 1.159 1.184   3.52
72)  P   1,1,2,2-Tetrachloro 1.249 1.257 1.053 0.985 0.928 0.896 1.061  14.86
73)      trans-1,4-Dichloro- 0.205 0.214 0.196 0.219 0.238 0.238 0.219   7.87
74)      1,2,3-Trichloroprop 0.352 0.306 0.245 0.255 0.245 0.237 0.273  16.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.26238 *A + -0.01255 *A^2

75)      Bromobenzene        1.262 1.114 0.985 0.950 0.855 0.794 0.993  17.29
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.03512 *A + -0.12183 *A^2
```

Initial Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICC1710
Lab FileID: C0042282.D

```
76)      n-Propylbenzene      5.690 4.959 4.802 4.537 3.999 3.682 4.611  15.53
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 4.99455 *A + -0.66481 *A^2

77)      1,3,5-Trimethylbenz 3.715 3.266 3.041 2.904 2.582 2.346 2.976  16.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 3.22259 *A + -0.44107 *A^2

78)      2-Chlorotoluene      4.216 3.695 3.256 3.016 2.650 2.415 3.208  20.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 3.37293 *A + -0.48529 *A^2

79)      4-Chlorotoluene      3.246 2.956 2.753 2.724 2.560 2.453 2.782  10.25
80)      tert-Butylbenzene    2.755 2.292 2.229 2.159 2.012 1.868 2.219  13.71
81)      1,2,4-Trimethylbenz 3.205 3.165 3.020 2.979 2.748 2.585 2.950   0.10
82)      sec-Butylbenzene     4.613 4.058 4.037 3.933 3.616 3.347 3.934  10.98
83)      4-Isopropyltoluene   3.265 2.901 3.010 2.988 2.799 2.611 2.929   7.51
84)      1,3-Dichlorobenzene 1.705 1.613 1.533 1.544 1.460 1.386 1.540   7.28
85)      1,4-Dichlorobenzene 1.865 1.678 1.487 1.491 1.401 1.350 1.545  12.46
86)      Benzyl chloride      1.128 1.252 1.313 1.403 1.420 1.433 1.325   9.00
87)      n-Butylbenzene       2.784 2.664 2.782 2.841 2.680 2.541 2.715   4.01
88)      1,2-Dichlorobenzene 1.616 1.622 1.461 1.492 1.414 1.354 1.493   7.23
89)      1,2-Dibromo-3-Chlor 0.176 0.121 0.103 0.113 0.119 0.118 0.125  20.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 0.11008 *A + 0.00446 *A^2

90)      1,2,4-Trichlorobenz 0.464 0.525 0.564 0.628 0.664 0.666 0.585  13.96
91)      Hexachlorobutadiene 0.518 0.434 0.415 0.418 0.418 0.404 0.434   9.69
92)      Naphthalene          0.878 0.898 1.023 1.189 1.326 1.297 1.102  17.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 1.15496 *A + 0.07939 *A^2

93)      1,2,3-Trichlorobenz 0.363 0.402 0.418 0.458 0.496 0.473 0.435  11.38

94) I    Tert Butyl alcohol-d1 ----------------ISTD--------------------
95)      Tert Butyl alcohol   1.385 1.647 1.237 1.192 1.213 1.159 1.305  14.14
96)      Tert Amyl Alcohol    0.892 1.194 0.997 1.021 1.016 0.998 1.020   9.56
97)      1,4-Dioxane          0.159 0.148 0.133 0.128 0.128 0.126 0.137   9.80
-------------------------------------------------------------------------------
(#) = Out of Range

          8260C.M            Thu Jul 20 08:58:46 2006
```

Initial Calibration Verification

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICV1710
Lab FileID: C0042285.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071906\C0042285.D
Acq On : 19 Jul 2006 1:59 pm
Sample : ICV1710-4
Misc : ms6429,vc1710,,,,,
MS Integration Params: RTEINT.P

Vial: 7
Operator: KarenW
Inst : MSVOA5
Multiplr: 1.00

Method : C:\MSDCHEM\2\METHODS\8260C.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Jul 20 08:29:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	10.22
2	Dichlorodifluoromethane	0.360	0.391	-8.6	114	0.00	4.56
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	42.991	-7.5	104	0.00	4.91
		AvgRF	CCRF	%Dev			
4 C	Vinyl Chloride	0.299	0.307	-2.7	106	0.00	5.15
5	Bromomethane	0.132	0.132	0.0	105	0.00	5.74
6	Chloroethane	0.130	0.132	-1.5	102	0.00	5.91
7	Trichlorofluoromethane	0.278	0.342	23.0#	124	0.00	6.28
8	1,2-Dichlorotrifluoroetha	0.400	0.396	1.0	103	0.00	6.62
9	Ethyl ether	0.289	0.285	1.4	103	0.00	6.61
		Amount	Calc.	%Drift			
10	Acrolein	200.000	200.526	-0.3	107	0.00	6.81
		AvgRF	CCRF	%Dev			
11	Freon 113	0.297	0.289	2.7	98	0.00	6.96
12	Acetone	0.086	0.100	-16.3	120	0.00	6.98
13 C	1,1-Dichloroethene	0.539	0.531	1.5	101	0.00	7.00
14	Iodomethane	0.503	0.486	3.4	99	0.00	7.26
15	Methyl Acetate	0.235	0.252	-7.2	111	0.00	7.37
16	Carbon Disulfide	1.026	0.963	6.1	96	0.00	7.37
		Amount	Calc.	%Drift			
17	Methylene Chloride	40.000	39.454	1.4	102	0.00	7.54
		AvgRF	CCRF	%Dev			
18	Acrylonitrile	0.108	0.118	-9.3	108	0.00	7.80
19	Methyl Tert Butyl Ether	0.810	0.850	-4.9	108	0.00	7.84
20	trans-1,2-Dichloroethene	0.518	0.511	1.4	102	0.00	7.88
21	Hexane	0.556	0.554	0.4	101	0.00	8.16
22	Vinyl acetate	0.411	0.498	-21.2#	122	0.00	8.32
23	Di-isopropyl ether	1.305	1.314	-0.7	105	0.00	8.34
24 P	1,1-Dichloroethane	0.622	0.602	3.2	102	0.00	8.36
25	ETBE	0.989	1.156	-16.9	120	0.00	8.74
26	2-Butanone	0.142	0.163	-14.8	114	0.00	8.94
		Amount	Calc.	%Drift			
27	cis-1,2-Dichloroethene	40.000	37.021	7.4	92	0.00	8.99

Initial Calibration Verification

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICV1710
Lab FileID: C0042285.D

		AvgRF	CCRF	%Dev			
28	2,2-Dichloropropane	0.336	0.365	-8.6	113	0.00	9.01
29	Bromochloromethane	0.168	0.162	3.6	96	0.00	9.26
30 C	Chloroform	0.536	0.539	-0.6	103	0.00	9.30
31	Tetrahydrofuran	0.108	0.113	-4.6	115	0.00	9.32
32 S	Dibromofluoromethane	0.247	0.255	-3.2	105	0.00	9.48
33	1,1,1-Trichloroethane	0.442	0.468	-5.9	109	0.00	9.57
34	Cyclohexane	0.693	0.684	1.3	100	0.00	9.67
35	1,1-Dichloropropene	0.421	0.423	-0.5	101	0.00	9.73
36	Carbon Tetrachloride	0.347	0.376	8.4	110	0.00	9.77
37 S	1,2-Dichloroethane-d4	0.282	0.326	-15.6	120	0.00	9.87
38	1,2-Dichloroethane	0.454	0.405	-6.8	110	0.00	9.95
		Amount	Calc.	%Drift			
39	Benzene	40.000	38.740	3.1	95	0.00	9.97
		AvgRF	CCRF	%Dev			
40	TAME	0.854	0.876	-2.6	106	0.00	9.98
41	Trichloroethene	0.334	0.331	0.9	100	0.00	10.61
42 C	1,2-Dichloropropane	0.391	0.374	4.3	98	0.00	10.86
43	Methylcyclohexane	0.539	0.536	0.6	98	0.00	10.86
44	Dibromomethane	0.192	0.200	-4.2	105	0.00	11.00
45	Bromodichloromethane	0.442	0.436	1.4	99	0.00	11.11
		Amount	Calc.	%Drift			
46	2-Nitropropane	200.000	214.307	-7.2	111	0.00	11.30
		AvgRF	CCRF	%Dev			
47	2-Chloroethyl vinyl ether	0.171	0.188	-9.9	102	0.00	11.33
48	cis-1,3-Dichloropropene	0.523	0.547	-4.6	102	0.00	11.56
49	4-Methyl-2-pentanone	0.315	0.350	-11.1	109	0.00	11.65
50 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.46
51 S	Toluene-d8	1.293	1.280	1.0	101	0.00	11.88
		Amount	Calc.	%Drift			
52 C	Toluene	40.000	38.693	3.3	98	0.00	11.96
		AvgRF	CCRF	%Dev			
53	trans-1,3-Dichloropropene	0.542	0.588	-8.5	112	0.00	12.11
54	1,1,2-Trichloroethane	0.327	0.317	3.1	99	0.00	12.34
55	2-hexanone	0.239	0.273	-14.2	112	0.00	12.51
56	1,3-Dichloropropane	0.621	0.604	2.7	99	0.00	12.54
57	Tetrachloroethene	0.413	0.402	2.7	102	0.00	12.57
58	Dibromochloromethane	0.385	0.399	-3.6	103	0.00	12.82
59	1,2-Dibromoethane	0.343	0.363	-5.8	105	0.00	12.99
60	1-Chlorohexane	0.526	0.561	-6.7	101	0.00	13.35
61 P	Chlorobenzene	1.061	1.039	2.1	100	0.00	13.50
62	1,1,1,2-Tetrachloroethane	0.354	0.360	-1.7	104	0.00	13.55
63 C	Ethylbenzene	1.795	1.742	3.0	98	0.00	13.56
64	m,p-Xylene	1.335	1.327	0.6	100	0.00	13.67
65	o-Xylene	1.388	1.404	-1.2	101	0.00	14.12
66	Styrene	0.984	0.996	-1.2	97	0.00	14.13
67 P	Bromoform	0.229	0.257	-12.2	109	0.00	14.41
68 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	16.00
69	Isopropylbenzene	3.605	3.598	0.2	103	0.00	14.50
		Amount	Calc.	%Drift			
70	Cyclohexanone	200.000	232.809	-16.4	123	0.00	14.67

Initial Calibration Verification

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-ICV1710
Lab FileID: C0042285.D

			AvgRF	CCRF	%Dev			
71	S	4-Bromofluorobenzene	1.184	1.158	2.2	101	0.00	14.71
72	P	1,1,2,2-Tetrachloroethane	1.061	1.018	4.1	105	0.00	14.79
73		trans-1,4-Dichloro-2-bute	0.219	0.253	-15.5	117	0.00	14.84
			Amount	Calc.	%Drift			
74		1,2,3-Trichloropropane	40.000	43.131	-7.8	108	0.00	14.89
75		Bromobenzene	40.000	39.571	1.1	99	0.00	14.94
76		n-Propylbenzene	40.000	38.896	2.8	98	0.00	14.95
77		1,3,5-Trimethylbenzene	40.000	39.665	0.8	100	0.00	15.11
78		2-Chlorotoluene	40.000	39.304	1.7	99	0.00	15.12
			AvgRF	CCRF	%Dev			
79		4-Chlorotoluene	2.782	2.690	3.3	100	0.00	15.22
80		tert-Butylbenzene	2.219	2.175	2.0	102	0.00	15.51
81		1,2,4-Trimethylbenzene	2.950	2.920	1.0	100	0.00	15.55
82		sec-Butylbenzene	3.934	3.864	1.8	100	0.00	15.74
83		4-Isopropyltoluene	2.929	2.928	0.0	100	0.00	15.87
84		1,3-Dichlorobenzene	1.540	1.535	0.3	101	0.00	15.94
85		1,4-Dichlorobenzene	1.545	1.477	4.4	101	0.00	16.03
86		Benzyl chloride	1.325	1.519	-14.6	110	0.00	16.15
87		n-Butylbenzene	2.715	2.735	-0.7	98	0.00	16.33
88		1,2-Dichlorobenzene	1.493	1.473	1.3	100	0.00	16.47
			Amount	Calc.	%Drift			
89		1,2-Dibromo-3-Chloropropa	40.000	45.005	-12.5	115	0.00	17.32
			AvgRF	CCRF	%Dev			
90		1,2,4-Trichlorobenzene	0.585	0.633	-8.2	102	0.00	18.32
91		Hexachlorobutadiene	0.434	0.425	2.1	103	0.00	18.47
			Amount	Calc.	%Drift			
92		Naphthalene	40.000	42.144	-5.4	110	0.00	18.67
			AvgRF	CCRF	%Dev			
93		1,2,3-Trichlorobenzene	0.435	0.494	-13.6	110	0.00	18.97
94	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	124	0.00	7.46
95		Tert-Butyl alcohol	1.305	1.214	7.0	126	0.00	7.55
96		Tert Amyl Alcohol	1.020	1.035	-1.5	126	0.00	9.77
97		1,4-Dioxane	0.137	0.121	11.7	118	0.00	10.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0042282.D 8260C.M Thu Jul 20 08:58:23 2006

Continuing Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-CC1710
Lab FileID: C0042287.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071906\C0042287.D
Acq On : 19 Jul 2006 2:48 pm
Sample : CC1710-4
Misc : ms6429,vc1710,,,,,
MS Integration Params: RTEINT.P

Vial: 1
Operator: KarenW
Inst : MSVOA5
Multiplr: 1.00

Method : C:\MSDCHEM\2\METHODS\8260C.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Thu Jul 20 08:29:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00	10.23
2	Dichlorodifluoromethane	0.360	0.392	-8.9	117	0.00	4.57
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	38.745	3.1	96	0.00	4.91
		AvgRF	CCRF	%Dev			
4 C	Vinyl Chloride	0.299	0.272	9.0	97	0.00	5.15
5	Bromomethane	0.132	0.116	12.1	95	0.00	5.75
6	Chloroethane	0.130	0.118	9.2	94	0.00	5.91
7	Trichlorofluoromethane	0.278	0.293	5.4	109	0.00	6.28
8	1,2-Dichlorotrifluoroetha	0.400	0.373	6.8	99	0.00	6.61
9	Ethyl ether	0.289	0.300	-3.8	111	0.00	6.61
		Amount	Calc.	%Drift			
10	Acrolein	200.000	232.794	-16.4	128	0.00	6.81
		AvgRF	CCRF	%Dev			
11	Freon 113	0.297	0.292	1.7	102	0.00	6.96
12	Acetone	0.086	0.090	-4.7	111	0.00	6.98
13 C	1,1-Dichloroethene	0.539	0.538	0.2	105	-0.01	7.00
14	Iodomethane	0.503	0.502	0.2	105	0.00	7.26
15	Methyl Acetate	0.235	0.245	-4.3	111	0.00	7.37
16	Carbon Disulfide	1.026	0.947	7.7	97	-0.01	7.37
		Amount	Calc.	%Drift			
17	Methylene Chloride	40.000	40.105	-0.3	106	0.00	7.54
		AvgRF	CCRF	%Dev			
18	Acrylonitrile	0.108	0.132	-22.2#	125	0.00	7.80
19	Methyl Tert Butyl Ether	0.810	0.839	-3.6	110	0.00	7.84
20	trans-1,2-Dichloroethene	0.518	0.505	2.5	103	0.00	7.88
21	Hexane	0.556	0.576	-3.6	107	0.00	8.16
22	Vinyl acetate	0.411	0.487	-18.5	122	0.00	8.32
23	Di-isopropyl ether	1.305	1.281	1.8	105	0.00	8.34
24 P	1,1-Dichloroethane	0.622	0.586	5.8	102	0.00	8.36
25	ETBE	0.989	1.011	-2.2	108	0.00	8.74
26	2-Butanone	0.142	0.153	-7.7	109	0.00	8.94
		Amount	Calc.	%Drift			
27	cis-1,2-Dichloroethene	40.000	38.831	2.9	99	0.00	8.99

Continuing Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-CC1710
Lab FileID: C0042287.D

			AvgRF	CCRF	%Dev			
28		2,2-Dichloropropane	0.336	0.350	-4.2	111	0.00	9.01
29		Bromochloromethane	0.168	0.166	1.2	102	0.00	9.26
30	C	Chloroform	0.536	0.524	2.2	103	0.00	9.30
31		Tetrahydrofuran	0.108	0.109	-0.9	114	0.00	9.33
32	S	Dibromofluoromethane	0.247	0.255	-3.2	108	0.00	9.48
33		1,1,1-Trichloroethane	0.442	0.454	-2.7	108	0.00	9.57
34		Cyclohexane	0.693	0.683	1.4	103	0.00	9.67
35		1,1-Dichloropropene	0.421	0.416	1.2	103	0.00	9.73
36		Carbon Tetrachloride	0.347	0.367	-5.8	110	0.00	9.77
37	S	1,2-Dichloroethane-d4	0.282	0.323	-14.5	122	0.00	9.87
38		1,2-Dichloroethane	0.454	0.469	-3.3	110	0.00	9.95
			Amount	Calc.	%Drift			
39		Benzene	40.000	37.724	5.7	96	0.00	9.97
			AvgRF	CCRF	%Dev			
40		TAME	0.854	0.836	2.1	104	0.00	9.99
41		Trichloroethene	0.334	0.322	3.6	99	0.00	10.61
42	C	1,2-Dichloropropane	0.391	0.367	6.1	99	0.00	10.86
43		Methylcyclohexane	0.539	0.521	3.3	98	0.00	10.86
44		Dibromomethane	0.192	0.193	-0.5	104	0.00	11.00
45		Bromodichloromethane	0.442	0.452	-2.3	105	0.00	11.11
			Amount	Calc.	%Drift			
46		2-Nitropropane	200.000	208.997	-4.5	111	0.00	11.30
			AvgRF	CCRF	%Dev			
47		2-Chloroethyl vinyl ether	0.171	0.184	-7.6	103	0.00	11.33
48		cis-1,3-Dichloropropene	0.523	0.532	-1.7	102	0.00	11.56
49		4-Methyl-2-pentanone	0.315	0.336	-6.7	108	0.00	11.65
50	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.46
51	S	Toluene-d8	1.293	1.301	-0.6	104	0.00	11.89
			Amount	Calc.	%Drift			
52	C	Toluene	40.000	38.710	3.2	99	0.00	11.96
			AvgRF	CCRF	%Dev			
53		trans-1,3-Dichloropropene	0.542	0.538	0.7	104	0.00	12.11
54		1,1,2-Trichloroethane	0.327	0.319	2.4	101	0.00	12.34
55		2-hexanone	0.239	0.263	-10.0	109	0.00	12.51
56		1,3-Dichloropropane	0.621	0.601	3.2	100	0.00	12.54
57		Tetrachloroethene	0.413	0.399	3.4	102	0.00	12.57
58		Dibromochloromethane	0.385	0.403	-4.7	106	0.00	12.82
59		1,2-Dibromoethane	0.343	0.355	-3.5	104	0.00	12.99
60		1-Chlorohexane	0.526	0.548	-4.2	99	0.00	13.35
61	P	Chlorobenzene	1.061	1.021	3.8	99	0.00	13.50
62		1,1,1,2-Tetrachloroethane	0.354	0.356	-0.6	104	0.00	13.55
63	C	Ethylbenzene	1.795	1.739	3.1	99	0.00	13.56
64		m,p-Xylene	1.335	1.310	1.9	100	0.00	13.67
65		o-Xylene	1.388	1.376	0.9	100	0.00	14.12
66		Styrene	0.984	1.001	-1.7	99	0.00	14.13
67	P	Bromoform	0.229	0.255	-11.4	110	0.00	14.41
68	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	16.00
69		Isopropylbenzene	3.605	3.388	6.0	101	0.00	14.50
			Amount	Calc.	%Drift			
70		Cyclohexanone	200.000	244.726	-22.4#	133	0.00	14.67

Continuing Calibration Summary

Job Number: F41973
Account: TETRPAPT Tetra Tech NUS
Project: Cecil Field - N/S Apron

Sample: VC1710-CC1710
Lab FileID: C0042287.D

			AvgRF	CCRF	%Dev			
71	S	4-Bromofluorobenzene	1.184	1.162	1.9	105	0.00	14.72
72	P	1,1,2,2-Tetrachloroethane	1.061	0.974	8.2	104	0.00	14.79
73		trans-1,4-Dichloro-2-bute	0.219	0.238	-8.7	114	0.00	14.84
			Amount	Calc.	%Drift			
74		1,2,3-Trichloropropane	40.000	41.224	-3.1	107	0.00	14.89
75		Bromobenzene	40.000	38.915	2.7	101	0.00	14.94
76		n-Propylbenzene	40.000	37.878	5.3	98	0.00	14.95
77		1,3,5-Trimethylbenzene	40.000	38.983	2.5	101	0.00	15.11
78		2-Chlorotoluene	40.000	38.546	3.6	101	0.00	15.12
			AvgRF	CCRF	%Dev			
79		4-Chlorotoluene	2.782	2.629	5.5	101	0.00	15.22
80		tert-Butylbenzene	2.219	2.137	3.7	104	0.00	15.51
81		1,2,4-Trimethylbenzene	2.950	2.902	1.6	102	0.00	15.55
82		sec-Butylbenzene	3.934	3.743	4.9	100	0.00	15.74
83		4-Isopropyltoluene	2.929	2.903	0.9	102	0.00	15.87
84		1,3-Dichlorobenzene	1.540	1.472	4.4	100	0.00	15.95
85		1,4-Dichlorobenzene	1.545	1.426	7.7	100	0.00	16.04
86		Benzyl chloride	1.325	1.519	-14.6	114	0.00	16.15
87		n-Butylbenzene	2.715	2.689	1.0	99	0.00	16.33
88		1,2-Dichlorobenzene	1.493	1.437	3.8	101	0.00	16.47
			Amount	Calc.	%Drift			
89		1,2-Dibromo-3-Chloropropa	40.000	43.197	-8.0	114	0.00	17.32
			AvgRF	CCRF	%Dev			
90		1,2,4-Trichlorobenzene	0.585	0.656	-12.1	110	0.00	18.32
91		Hexachlorobutadiene	0.434	0.435	-0.2	109	0.00	18.47
			Amount	Calc.	%Drift			
92		Naphthalene	40.000	43.277	-8.2	117	0.00	18.67
			AvgRF	CCRF	%Dev			
93		1,2,3-Trichlorobenzene	0.435	0.524	-20.5#	120	0.00	18.97
94	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	124	0.00	7.46
95		Tert-Butyl alcohol	1.305	1.174	10.0	122	0.00	7.55
96		Tert Amyl Alcohol	1.020	0.969	5.0	117	0.00	9.78
97		1,4-Dioxane	0.137	0.122	10.9	118	0.00	10.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0042282.D 8260C.M Thu Jul 20 08:58:25 2006