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NAS CECIL FIELD, FL
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SUPPLEMENTAL SITE ASSESSMENT LETTER REPORT 2 FOR NORTH SOUTH APRON PLUME NAS CECIL FIELD FL

8/3/2005

TETRA TECH NUS INC

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004 Document Tracking Number 05JAX0056

August 3, 2005

Project Number N9945

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-D0888
Contract Task Order Number 0361

Subject: Supplemental Site Assessment Letter Report II
North-South Apron Plume (NSAP)
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Supplemental Site Assessment Letter Report (SSAR) II for the referenced Contract Task Order (CTO) for the subject site. This report has been prepared for the United States Navy Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH) under CTO 0361, for the Comprehensive Long-term Environmental Action Navy (CLEAN) III Contract Number N62467-94-D-0888. This report provides the results of the supplemental site assessment activities and a limited review of prior site investigation results to aid in evaluating current site conditions and recommending future actions at the site.

SITE HISTORY

A direct-push technology (DPT) investigation by Harding Lawson and Associates in 1999 led to TtNUS conducting a site assessment of Main Base Open Area 18. The subsequent investigation and Site Assessment Report (SAR) (TtNUS, 2001) documents the NSAP as a site located on the north-south flightline, east of Building 815, on the eastern edge of the apron (see Figure 1). The SAR indicated "the contamination is limited to non-chlorinated hydrocarbons and that the site should be managed under the Florida Petroleum Contamination Sites regulations, Chapter 62-770, Florida Administrative Code (FAC) [Florida Department of Environmental Protection (FDEP), 1999]". Two shallow wells (CEF-M18-01S and CEF-M18-02S) and five intermediate wells (CEF-M18-01I through CEF-M18-05I) were installed and sampled as part of that investigation. The investigation "confirmed the presence of benzene and xylenes in the groundwater at concentrations greater than the FDEP Groundwater Cleanup Target Levels (GCTLs)..." The SAR indicated that no upgradient shallow source could be determined that would explain the presence of this groundwater contamination. The FDEP approved the Monitoring Only Plan (MOP) presented in the SAR on March 16, 2001.

TtNUS conducted four quarterly groundwater monitoring events for the site on the following dates: May 2, 2001; August 7, 2001; November 6, 2001; and, February 14, 2002. The fourth quarterly report submitted in May 2002 concluded that the concentrations of contaminants of concern (COCs) had

increased in two wells (CEF-M18-02I and CEF-M18-04I) and that the year one milestone objectives had not been achieved in those wells. The report recommended that the monitoring program be suspended and a supplemental site assessment be conducted. In May 2002, the FDEP issued a response concurring with the recommendation to conduct supplemental site assessment.

Between August and October 2002, TtNUS conducted a DPT investigation and installed additional intermediate monitoring wells (CEF-M18-06I through CEF-M18-10I). The SSAR (TtNUS, 2002) recommended additional groundwater monitoring under a revised MOP. The FDEP's response of May 2, 2003, indicated they could not concur with the recommendation because it appeared the groundwater contamination had not been vertically delineated in the deeper zones of the surficial aquifer.

During July 2003, TtNUS installed two deep monitoring wells (CEF-M18-11D and CEF-M18-12D). Figure 1 indicates the location of the existing well set for NSAP that includes the previously mentioned shallow (2), intermediate (9) and deep (2) wells. The SSAR was revised and resubmitted on December 3, 2003, with a revised MOP that included the deep wells for compliance monitoring. The FDEP response issued on January 30, 2004, indicated that a complete round of samples should be collected before they could concur with the recommendation to implement the MOP. The FDEP response also requested that water level measurements be collected from monitoring wells located in the shallow, intermediate, and deep portions of the surficial aquifer to determine if a vertical hydraulic gradient was present that could induce migration of contaminants into deeper portions of the surficial aquifer.

SUPPLEMENTAL SITE ASSESSMENT OBJECTIVES

The objective of this supplemental site assessment at NSAP is to evaluate the site's current groundwater contaminant conditions and vertical hydraulic gradient conditions between existing shallow, intermediate, and deep wells. The supplemental site assessment data will be used to determine appropriate future actions at the site.

MONITORING WELL WATER LEVEL MEASUREMENTS

On February 23, 2005, TtNUS personnel mobilized to the site to obtain water level measurements from all monitoring wells at the NSAP site. The Groundwater Level Measurement Sheet for the February 23 event is provided in Attachment A. The top-of-casing (TOC) elevations of the wells were previously surveyed by registered surveyor(s). Table 1 contains the water level data, TOC elevations of the wells, and the associated groundwater elevations. Figure 2 indicates that the groundwater flow direction for the intermediate zone of the surficial aquifer remains unchanged from a southeasterly course.

The groundwater elevations for the only shallow-intermediate well pair on site were compared for the four events (see Table 1). The difference in groundwater elevation between the two wells for the fall events (November 2001 and October 2002) range from 0.01 to 0.02 feet (ft). In contrast, the difference in groundwater elevation between the two wells for the winter event (February 2002 and 2005) range from 0.04 to 0.06 ft. During each of the four events, the higher elevation was associated with the shallow well indicating there is a consistent downward vertical gradient between those two zones.

Prior to comparing the elevation data for the deep wells, TtNUS mobilized to the site in March 2005 to conduct a relative survey of several known wells and the two deep wells. The data collected and calculations made to determine the TOC elevations for wells CEF-M18-11D and CEF-M18-12D are provided on a spreadsheet contained in Attachment A. Following the field work, the groundwater elevations for the two intermediate-deep well pairs on site were compared for the only event currently on record (February 2005) (see Table 1). The difference in elevation for wells CEF-M18-02I and CEF-M18-11D was 0.07 ft, while the difference in elevation for wells CEF-M18-09I and CEF-M18-12D was 0.10 ft. In each case, the difference in elevation between each well pair indicated the higher groundwater

elevation existed with the deep well. Thus, a consistent upward vertical gradient appears to exist with flow passing from the deep to the intermediate zone.

GROUNDWATER SAMPLING AND ANALYSIS

On February 25 and 28 and March 1, 2005, TtNUS personnel conducted the groundwater sampling event at the NSAP site. The sampling activities were completed in accordance with FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01).

The sampling team collected groundwater samples from each of the 13 existing wells on site. Copies of the groundwater sample log sheets and low flow purge data sheets are provided for each well in Attachment B. The samples were packed on ice and transported to Accutest Laboratories in Orlando, Florida. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using method SW846 8260B to maintain consistency with the MOP and past sampling events. Copies of the laboratory analytical report and chain-of-custody documentation are provided in Attachment C.

GROUNDWATER ANALYTICAL RESULTS

The analytical results for the groundwater samples collected at NSAP from this supplemental event have been compared to the appropriate GCTLs. Benzene and xylenes were again detected with only benzene remaining above its respective GCTL [1.0 micrograms per liter (µg/L)], in the groundwater samples collected from CEF-M18-09I (16.0 µg/L), CEF-M18-04I (13.1 µg/L), and CEF-M18-10I (10.7 µg/L). Concentrations of the other volatile organic compounds (VOCs) were either below the respective GCTL or below the method detection limit. The analytical results for the COCs from this supplemental event are summarized in Table 2.

SITE ASSESSMENT SUMMARY

The water level data collected as part of the supplemental site assessment indicate the intermediate groundwater flow remains to the southeast. Comparison of groundwater elevations between shallow-intermediate and intermediate-deep well pairs indicates there is a consistent flow into the intermediate zone of the surficial aquifer from the shallow and deep zones.

Attachment D contains Figure 3 from the SSAR, Revision 1 (TtNUS, 2003), which indicates that the benzene plume once extended further upgradient in the intermediate zone than it currently does (see Figure 3 for this report). Though the plume appears to have shrunk, a comparison of the concentrations shown by each figure indicate the benzene levels have increased for each of the three wells currently affected.

Attachment D also contains Figure 4 from the SSAR, Revision 1 (TtNUS, 2003), which indicates that the benzene concentration in well CEF-M18-12D once exceeded the GCTL. Figure 3 from this report indicates that benzene still impacts the groundwater at the deeper interval in CEF-M18-12D, but the concentration is now below the GCTL.

RECOMMENDATIONS

Based on the results of the groundwater monitoring, TtNUS recommends a Natural Attenuation Monitoring Plan (NAMP) be implemented for the site. The proposed well locations are shown on Figure 3 in yellow highlights. Chapter 62-770.690(7)(a), FAC, requires a minimum of two wells for the NAMP to monitor both the area(s) of maximum concentration of contaminants and the downgradient edge of the plume. Due to

the size and extent of the contaminant plume at the NSAP both horizontally and vertically, TtNUS recommends the following wells for periodic sampling under the NAMP:

- Two wells (CEF-M18-04I and CEF-M18-09I) to monitor the source area(s) of maximum concentration of the plume.
- One well (CEF-M18-12D) to monitor the vertical extent of contamination.
- One well (CEF-M18-05I) to monitor the downgradient edge of the plume.

The recommended COCs for the NAMP are the BTEX compounds, and the recommended frequency is quarterly monitoring for the first year in accord with Chapter 62-770.690(7)(b), FAC.

In anticipation of natural attenuation in five years for the remaining extent of the plume, the following recommended milestone objectives for annual evaluation of remediation progress is also provided in accordance with Chapter 62-770.690(7)(g), FAC:

Benzene	CEF-M18-04I	CEF-M18-09I
End of Year 1	11 µg/L	14 µg/L
End of Year 2	9 µg/L	12 µg/L
End of Year 3	6 µg/L	8 µg/L
End of Year 4	3 µg/L	4 µg/L
End of Year 5	<1 µg/L	<1 µg/L

If you should have any questions or require additional information, please feel free to contact Mr. Paul Calligan at (813) 806-0202.

Sincerely,

Paul E. Calligan, P.G.
Task Order Manager

Mervin W. Dale, P.G.
Florida Professional Geologist
P.G. Number 001917

MERVIN W. DALE
LICENSE
NO. 1917
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

PC/md

Attachments (9)

pc: Gabe Magwood, NAVFAC EFD SOUTH
Debbie Humbert (Cover Letter Only)
Mark Perry (Unbound)
CTO 0361 File

TABLES

Table 1
Groundwater Elevation Data

Supplemental Site Assessment Letter Report II
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

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

Notes:
The 1st quarter's data (May 2001) was removed from this table as a matter of brevity.
The top-of-casing elevation of CEF-M18-2I has been corrected.
BTOC = below top-of-casing

NE = This well did not exist at this time.
NM = not measured
msl = mean sea level

Table 2
Summary of BTEX Detections in Groundwater

Supplemental Site Assessment Letter Report II
North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

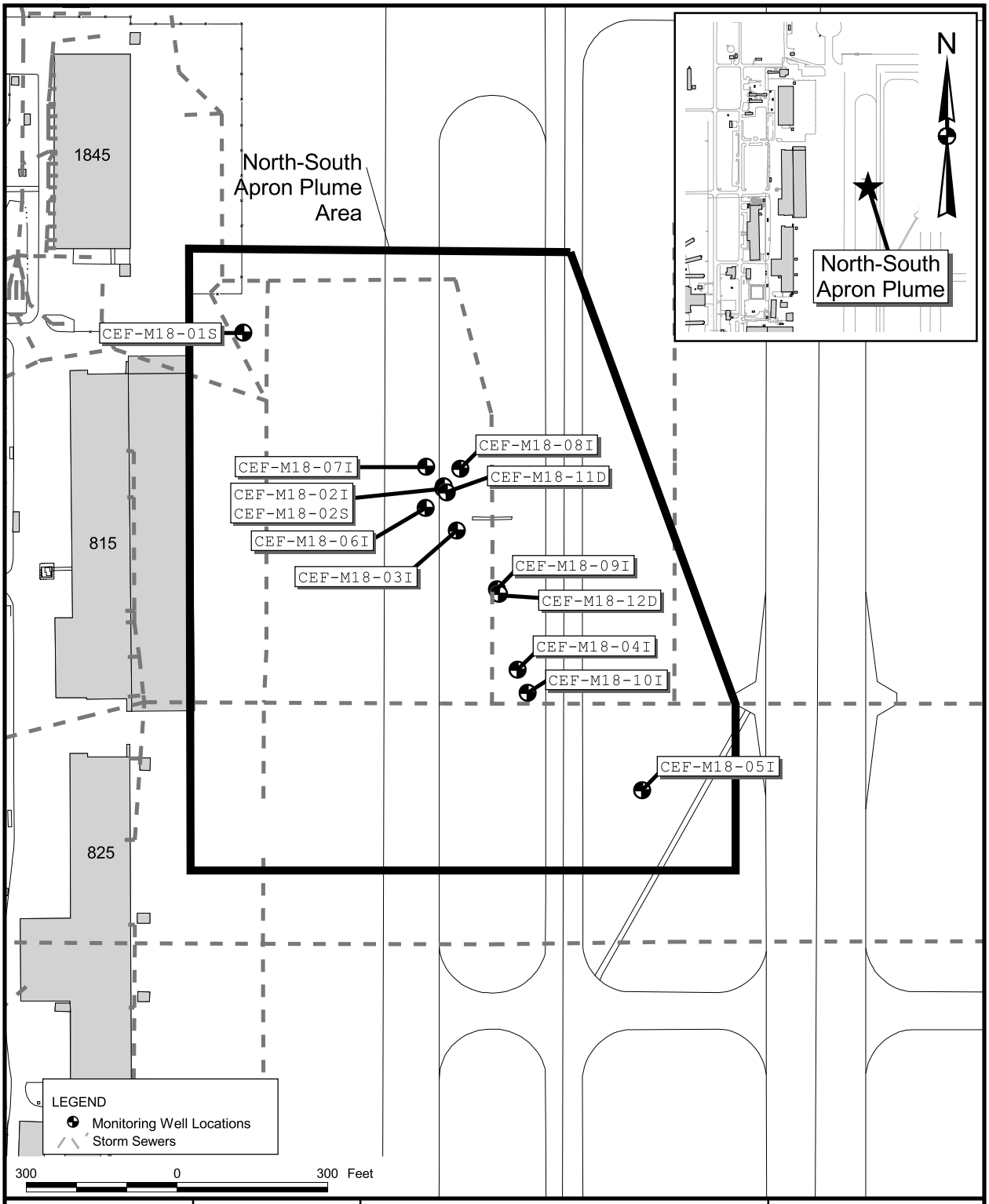
Well	CEF-M18-01S						CEF-M18-02I										CEF-M18-02S				GCTLs	NADSC
Sample Date	01/20/00	09/14/00	11/30/00	05/02/01	08/07/01	03/01/05	01/19/00	01/19/00	09/14/00	05/02/01	08/07/01	11/06/01	02/14/02	02/14/02	02/28/05	02/28/05	03/28/00	09/14/00	08/07/01	02/28/05		
Well Depth (ft bgs)	15						35										15					
	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample	Duplicate	Sample	Sample	Sample	Sample		
VOCs (µg/L)																						
Benzene	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**	**8.3**	**8.6**	0.85	0.87	1.0 U	1.0 U	NS	0.50 U	1	100
Toluene	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	0.89 J	1 J	0.50 U	0.50 U	1.0 U	2.0 U	NS	0.50 U	40	400
Ethylbenzene	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	9.4	9.5	0.50 U	0.50 U	1.0 U	2.0 U	NS	0.50 U	30	300
Xylenes, total	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**	**139**	**147**	11.3	11.8	3.0 U	6.0 U	NS	1.0 U	20	200

Well	CEF-M18-03I						CEF-M18-04I									CEF-M18-05I					GCTLs	NADSC
Sample Date	09/14/00	05/02/01	08/07/01	11/06/01	02/14/02	02/28/05	03/28/00	03/28/00	09/14/00	05/02/01	08/07/01	08/07/01	11/06/01	02/14/02	3/1/2005	11/30/00	11/30/00	05/02/01	08/07/01	11/06/01		
Well Depth (ft bgs)	35						35									35						
	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample		
VOCs (µg/L)																						
Benzene	**7**	**4.6**	**4.1**	**4**	**3.7**	0.50 U	1.0 U	1.0 U	**7.7**	**8.0**	**8.7**	**8.7**	**8.8**	**9.1**	**13.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1	100
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	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	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	40	400
Ethylbenzene	4.6	1.1 J	1.7J	1.8 J	1.2 J	0.50 U	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	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	30	300
Xylenes, total	**27.5**	5.3 J	10.6	11	6.6	1.0 U	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	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	20	200

Well	CEF-M18-05I		CEF-M18-06I			CEF-M18-07I	CEF-M18-08I			CEF-M18-09I		CEF-M18-10I		CEF-M18-11D		CEF-M18-12D			GCTLs	NADSC
Sample Date	02/14/02	03/01/05	10/23/02	10/23/02	02/25/05	10/23/02	02/25/05	10/23/02	02/28/05	10/23/02	02/28/05	10/23/02	03/01/05	07/11/03	02/28/05	07/11/03	07/11/03	02/28/05		
Well Depth (ft bgs)	35		35			35	35			35		35		60		60				
	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample		
VOCs (µg/L)																				
Benzene	1.0 U	0.50 U	0.72 J	0.78 J	1.0	**1.6**	0.50 U	**1.4**	0.50 U	**14.5**	**16.0**	**9.3**	**10.7**	1.0 U	0.50 U	**1.2**	**1.1**	0.55	1	100
Toluene	2.0 U	0.50 U	2.3	2.8	0.50 U	1.0 U	0.50 U	0.8 J	0.50 U	1.0 U	0.50 U	3.8	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	40	400
Ethylbenzene	2.0 U	0.50 U	1.0 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	30	300
Xylenes, total	6.0 U	1.0 U	3.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	1.0 U	3.0 U	3.0 U	1.0 U	20	200

Notes:
GCTLs are taken from Chapter 62-777, Florida Administrative Code.
U = not detected at detection limit shown
Natural Attenuation Default Source Concentrations (NADSC) in accord with Chapter 62-770.690.
Bold indicates concentrations are greater than FDEP criteria.
NS = not sampled
J = estimated
bgs = below ground surface

FIGURES



DRAWN BY MJJ	DATE 30Mar05	MONITORING WELL LOCATION MAP NORTH-SOUTH APRON PLUME SUPPLEMENTAL SITE ASSESSMENT LETTER REPORT II NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 9945
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

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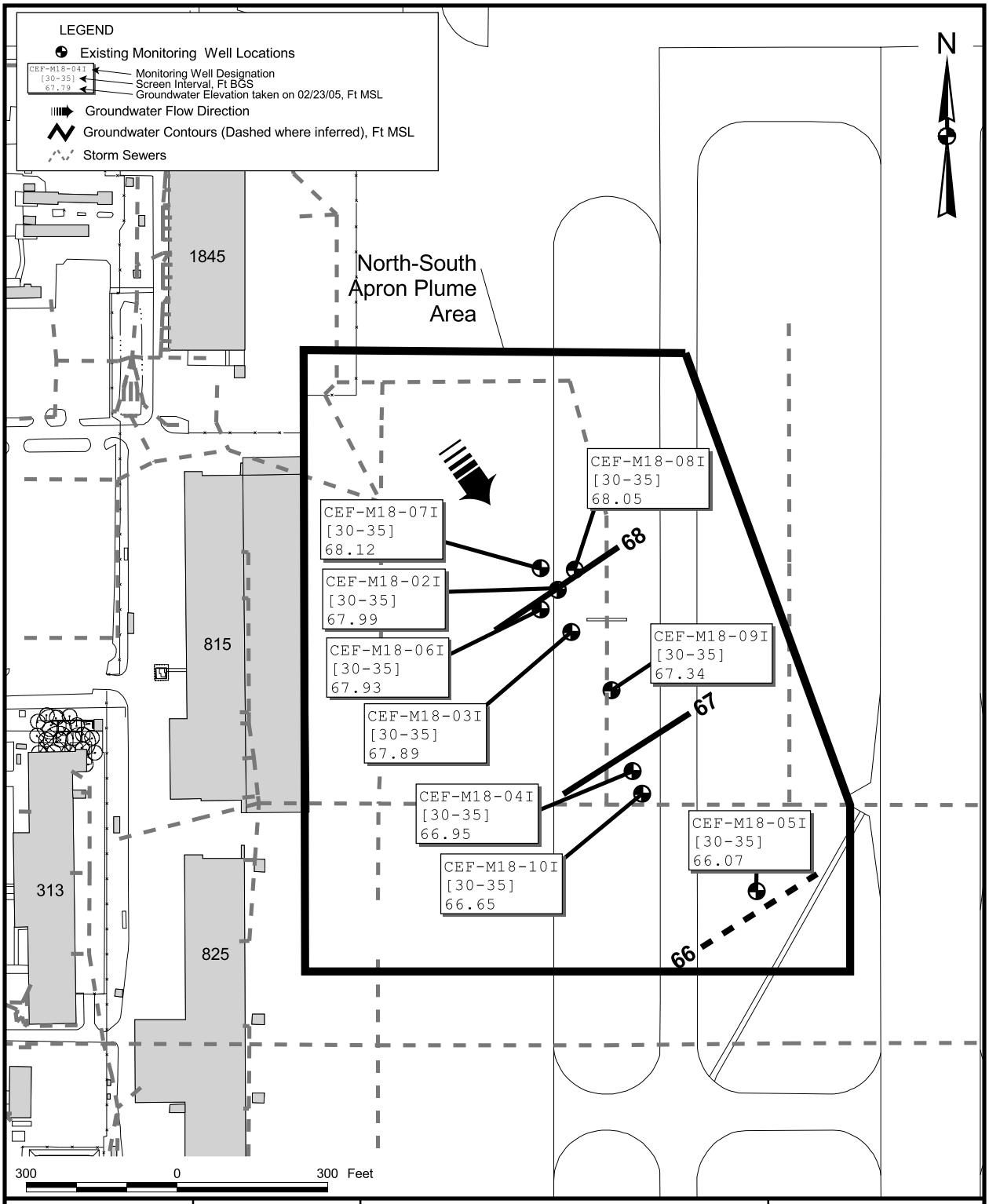

DRAWN BY MJJ	DATE 30Mar05	GROUNDWATER FLOW MAP (02/23/05) NORTH-SOUTH APRON PLUME SUPPLEMENTAL SITE ASSESSMENT LETTER REPORT II NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 9945
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV 0

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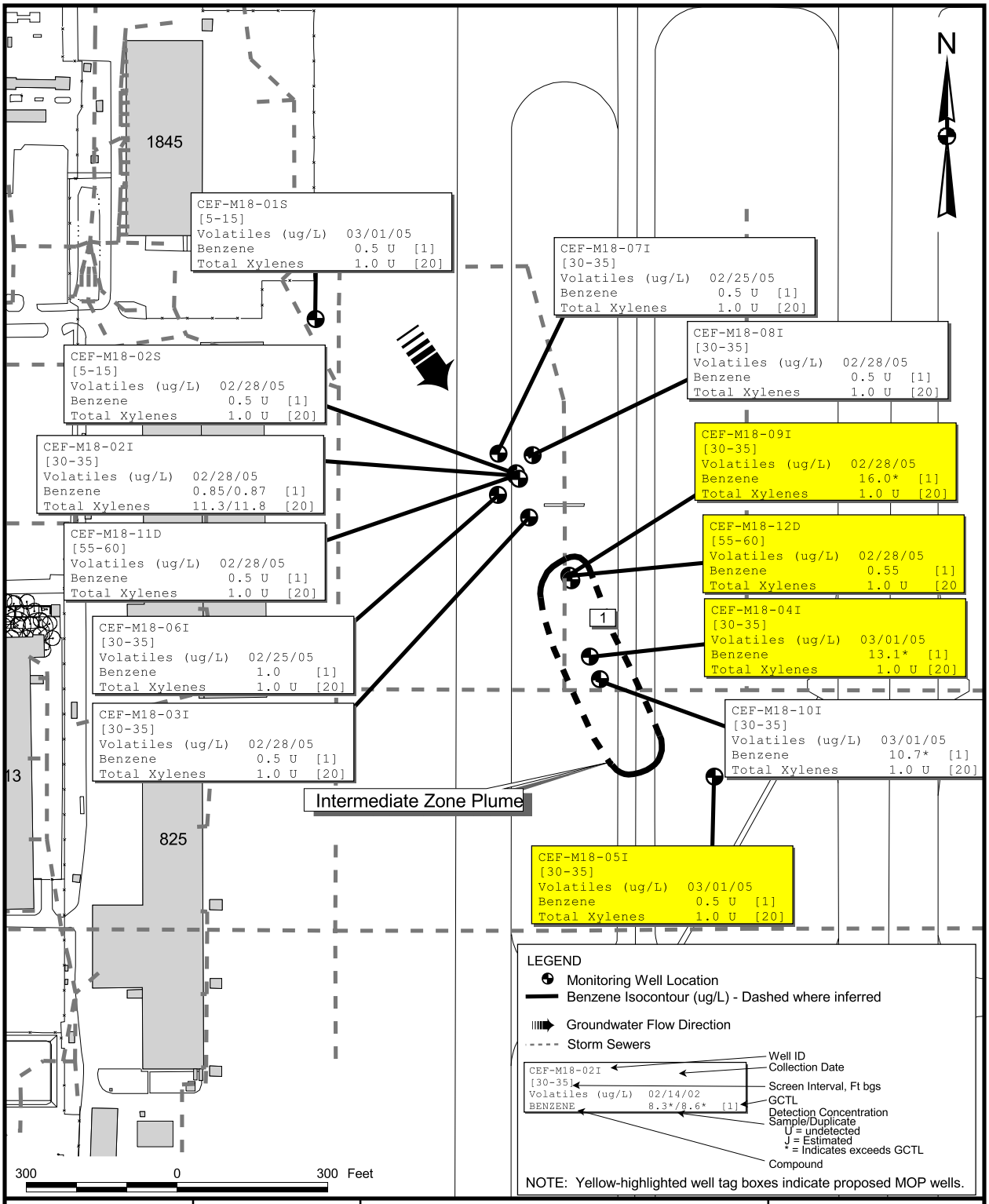

DRAWN BY	DATE			CONTRACT NUMBER
MJJ	30Mar05	GROUNDWATER VOC RESULTS		9945
CHECKED BY	DATE	NORTH-SOUTH APRON PLUME		APPROVED BY / DATE
COST/SCHEDULE-AREA		SUPPLEMENTAL SITE ASSESSMENT LETTER REPORT II		APPROVED BY / DATE
SCALE		NAVAL AIR STATION CECIL FIELD		DRAWING NO. / REV
AS NOTED		JACKSONVILLE, FLORIDA		FIGURE 3 / 0

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ATTACHMENT A

GROUNDWATER LEVEL MEASUREMENT SHEET
AND
SURVEY ELEVATION CALCULATIONS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

COPY

Project Name: NAS CECIL FIELD
Location: SITE NSAP
Weather Conditions: 78°F, CLOUDY
Tidally Influenced: Yes ___ No X

Project No.: ~~0039~~ N9945
Personnel: M. DALE
Measuring Device: Solinst Model 101
Remarks: PINE # 05073

Well or Piezometer Number CEF-	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	~~Thickness of Free Product (feet)*~~ Replace Cap	Groundwater Elevation (feet)*	PID (ppm) Comments BZ	BH	PID time
M18-01S	2/23/05	1710			7.17	ND		0.0	0.4	1420
M18-02S		1643			7.97	NO		0.0	0.4	1441
02I		1645			7.79	NO		0.0	0.4	1448
03I		1636			7.24	yes		0.0	0.9	1502
04I		1613			7.71	NO		0.0	0.8	1533
05I		1545			7.35	yes		0.0	0.5	1541
06I		1700			~~8.88~~ 8.18	yes		0.0	0.8	1427
07I		1706			8.14	yes		0.0	0.8	1434
08I		1638			7.49	yes		0.0	0.4	1455
09I		1622			6.98	yes		0.0	0.4	1516
10I		1606			8.33	yes		0.0	0.4	1528
11D		1641			7.74	NO		0.0	0.5	1502
12D		1620			6.70	NO		0.0	0.5	1523

Note: BZ = breathing zone, BH = borehole of well.

Background (BK) = 0.0 ppm

* All measurements to the nearest 0.01 foot

Survey Elevation Calculations
NSAP
Supplemental Site Assessment Letter Report II
NAS Cecil Field
Jacksonville, Florida

Height of Instrument	+	-	Elevation	Description
			76.02	Known elevation for CEF-M18-2S
80.65	4.63			Height of CEF-M18-02S from relative rod survey of 3/24/05.
80.65		4.83	75.82	CEF-M18-02I
80.65		6.25	74.40	CEF-M18-09I
80.65		4.85	75.80	CEF-M18-11D
80.65		6.51	74.14	CEF-M18-12D

ATTACHMENT B

GROUNDWATER SAMPLE LOG SHEETS
AND
LOW FLOW PURGE DATA SHEETS

COPY

Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 01S01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 01S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: Chuck Metz

SAMPLING DATA

	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Date: 3-1-05 Time: 1102 Method: Peristaltic	Clear	4.50	0.040	21.72	4.22	1.27	+187.3	

PURGE DATA

Date:	3-1-05
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	15
Static Water Level (ft):	6.51
One Screen Volume(gal/L):	5.3 L
Start Purge (hrs):	1030
End Purge (hrs):	1058
Total Purge Time (min):	28
Total Vol. Purged (gal/L):	8 H

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	Yes ✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-00~~ None CM 3-1-05

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 01S
DATE: 3-1-05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1030	6.51	0	300	—	—	—	—	—	—	Start Purge
1040	6.86	3	300	—	—	19.8	—	—	—	
1050	6.85	6	300	4.51	0.041	8.52	1.47	21.94	+172.7	
1053	6.85	6.9	300	4.51	0.040	6.41	1.34	21.83	+182.1	
1055	6.85	7.5	300	4.50	0.040	5.37	1.29	21.77	+185.2	
1058	6.85	8.4	300	4.50	0.040	4.22	1.27	21.72	+187.3	
1102 = Sample Time										

SIGNATURE(S): Charles Mc

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 02S01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 02S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05 Time: 0940	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	6.43	0.205	20.53	18.8	1.76	193.9	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	15
Static Water Level (ft):	7.28
One Screen Volume(gal):	4.8
Start Purge (hrs):	0908
End Purge (hrs):	0938
Total Purge Time (min):	30
Total Vol. Purged (gal):	9.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 02S
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0908	7.28	—	300	—	—	—	—	—	—	START PURGE
0918	7.34	3.0	300	6.43	0.201	45	5.32	20.27	205.4	
0928	7.35	6.0	300	6.42	0.202	29	5.36	20.42	202.9	
0933	7.35	7.5	300	6.42	0.206	21	2.11	20.55	203.7	
0938	7.35	9.0	300	6.43	0.205	18.8	1.76	20.53	193.9	
	SAMPLE TIME 0940									

SIGNATURE(S): [signature]

PAGE 2 OF 2

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site: NSAP, Supplemental Assessment (NASCF)
Project No.: N9945 SY0 050 130

Sample ID No.: M18GL 02I01
Sample Location: CEF-M18 02I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1010								
Method: Peristaltic	CLEAR	5.75	0.032	23.18	7.2	0.69	96.8	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.4
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	7.17
One Screen Volume(gal/L):	@ 1L
Start Purge (hrs):	0947
End Purge (hrs):	1007
Total Purge Time (min):	20
Total Vol. Purged (gal/L):	6.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☒ DUPLICATE / ID No.: M18GL02I010 ~~CEF-M18-DUP1-06~~

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 02I
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0947	7.17	—	300	—	—	—	—	—	—	Start Purge
0952	7.26	1.5	300	5.36	0.035	9.7	2.99	22.80	197.5	
0957	7.26	3.0	300	5.28	0.034	8.4	1.97	23.17	95.9	
1002	7.26	4.5	300	5.26	0.033	7.9	1.19	23.44	93.5	
1007	7.26	6.0	300	5.25	0.032	7.2	0.69	23.18	96.8	

Sample Time 1010

SIGNATURE(S):

COPY

Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

COPY

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 03I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 03I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05 Time: 1350	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	4.45	0.036	22.75	4.1	0.15	-22.6	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	6.67
One Screen Volume(gal/O):	@1L
Start Purge (hrs):	1320
End Purge (hrs):	1345
Total Purge Time (min):	25
Total Vol. Purged (gal/O):	7.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ None

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 03I
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1320	6.67	—	300	—	—	—	—	—	—	START PURGE
1325	7.02	1.5	300	4.41	0.037	12	0.57	22.62	38.1	
1330	7.01	3.0	300	4.21	0.036	6.8	0.35	22.70	34.4	
1335	7.01	4.5	300	4.43	0.036	5.4	0.24	22.72	3.1	
1340	7.01	6.0	300	4.45	0.036	4.7	0.19	22.74	-18.2	
1345	7.01	7.5	300	4.45	0.036	4.1	0.15	22.75	-22.6	

SAMPLE TIME 1350

SIGNATURE(S):

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 04I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 04I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: Chuck Metz

SAMPLING DATA

Date: 3-1-05 / Time: 1012	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	Clear	4.52	0.079	22.30	27.7	0.58	+75.1	

PURGE DATA

Date:	3-1-05
Method:	Peristaltic
Monitor Reading (ppm):	1.4
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	7.07
One Screen Volume(gal/L):	≈1L
Start Purge (hrs):	0945
End Purge (hrs):	1010
Total Purge Time (min):	25
Total Vol. Purged (gal/L):	7.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	Yes ✓

OBSERVATIONS / NOTES

Reached 5 volumes and turbidity was >20, but only sampling for BTEX.
Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ 3-1-05 cm

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 04I
DATE: 3-1-05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0945	7.07	0	300	—	—	—	—	—	—	START Purge
0950	7.13	1.5	300	—	—	—	—	—	—	Clear
0953	7.13	2.4	300	3.67	0.037	129	0.66	22.25	+74.3	
0956	7.13	3.3	300	—	—	—	—	—	—	
1000	7.13	4.5	300	4.51	0.031	93	0.63	22.25	83.0	
1005	7.13	6.0	300	4.52	0.029	65	0.61	22.35	+77.0	
1010	7.13	7.5	300	4.52	0.029	222	0.58	22.30	+75.1	

1012 = Sample Time

SIGNATURE(S): Chale McS

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 05I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 05I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: Mark Dale

SAMPLING DATA

Date: 3/1/05	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1100								
Method: Peristaltic	clear	4.50	0.030	22.36	16	4.4	33.4	

PURGE DATA

Date:	3/1/05
Method:	Peristaltic
Monitor Reading (ppm):	0.5
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	6.62
One ~~Screen~~ System Volume(gal/L):	1 Liter
Start Purge (hrs):	1041
End Purge (hrs):	1054
Total Purge Time (min):	13
Total Vol. Purged (gal/L):	4.8

5ft. screen

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

[ ] MS / MSD [ ] DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ None

Signature(s): Marvin W. Dale

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130

WELL ID.: CEF-M18 /05
DATE: 3/1/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1041	6.62	0	—	—	—	—	—	—	—	START
1045	6.70	1.6	400	4.44	0.031	17	1.00	22.10	78.0	
1049	6.70	2.8	400	4.46	0.030	23	6.1	22.24	61.4	
1050	6.68	3.6	300	4.54	0.030	19	4.7	22.39	39.7	slow pump
1054	6.68	4.8	300	4.50	0.030	16	4.4	22.36	33.4	clear

SIGNATURE(S): Maurice A. Dale

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site: NSAP, Supplemental Assessment (NASCF)
Project No.: N9945 SY0 050 130

Sample ID No.: M18GL 06I01
Sample Location: CEF-M18 06I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/25/05	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1315								
Method: Peristaltic	CLEAR	4.67	0.029	23.63	1.42	0.15	-10.2	

PURGE DATA

Date:	2/25/05
Method:	Peristaltic
Monitor Reading (ppm):	2.5
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	8.15
One Screen Volume(gal/L):	@ 1L
Start Purge (hrs):	1254
End Purge (hrs):	1314
Total Purge Time (min):	20
Total Vol. Purged (gal/L):	6.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 06I
DATE: 2/25/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1254	8.15	—	300	—	—	—	—	—	—	START PURGE
1259	8.30	1.5	300	4.68	0.034	6.79	0.32	23.69	39.5	
1304	8.31	3.0	300	4.70	0.031	4.88	0.25	23.63	16.2	
1309	8.31	4.5	300	4.68	0.029	2.76	0.16	23.64	0.8	
1314	8.31	6.0	300	4.67	0.029	1.42	0.15	23.63	-10.2	
	SAMPLE TIME 1315									

SIGNATURE(S): Pete Lunetto

COPY

Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

COPY

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 07I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 07I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/25/05	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1325								
Method: Peristaltic	CLEAR	4.50	0.034	23.57	1.44	0.18	34.8	

PURGE DATA

Date:	2/25/05
Method:	Peristaltic
Monitor Reading (ppm):	2.4
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	8.08
One Screen Volume(gal/L):	@ 1L
Start Purge (hrs):	1321
End Purge (hrs):	1341
Total Purge Time (min):	20
Total Vol. Purged (gal/L)	4.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18 DUP1 06~~ NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 071
DATE: 2/25/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1321	8.08	0 ~~200~~	200	—	—	—	—	—	—	START Pump
1326	8.22	1.0	200	4.46	0.042	4.38	0.53	23.54	153.4	
1331	8.22	2.0	200	4.48	0.038	2.72	0.36	23.66	154.4	
1336	8.22	3.0	200	4.49	0.036	2.02	0.21	23.59	77.4	
1341	8.22	4.0	200	4.50	0.034	1.44	0.18	23.57	34.8	

SAMPLE TIME 1345

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 08I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 08I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05 Time: 1310	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	4.75	0.032	22.65	3.4	0.23	-40.0	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.1
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	6.85
One Screen Volume(gal/L):	@ 1L
Start Purge (hrs):	1247
End Purge (hrs):	1307
Total Purge Time (min):	20
Total Vol. Purged (gal/L):	6.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-08~~ NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 08I
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1247	6.85	—	300	—	—	—	—	—	—	START PURGE
1252	6.95	1.5	300	4.74	0.039	10	0.78	22.92	0.1	
1257	6.95	3.0	300	4.77	0.035	7.6	0.33	22.90	-22.7	
1302	6.95	4.5	300	4.76	0.032	5.2	0.23	22.78	-47.2	
1307	6.95	6.0	300	4.75	0.032	3.4	0.23	22.65	-40.0	
	SAMPLE	TIME	1310							

SIGNATURE(S): [signature]

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 09I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 09I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05 Time: 1440	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	4.56	0.039	22.13	10	0.14	-78.8	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	6.42
One Screen Volume(gal/L):	@1L
Start Purge (hrs):	1416
End Purge (hrs):	1436
Total Purge Time (min):	20
Total Vol. Purged (gal/L):	6.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 09I
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1416	6.42	—	300	—	—	—	—	—	—	START PURGE
1421	6.55	1.5	300	4.54	0.038	17	0.42	22.11	-43.0	
1426	6.55	3.0	300	4.54	0.035	17	0.28	22.13	-39.2	
1431	6.55	4.5	300	4.55	0.036	12	0.21	22.15	-67.3	
1436	6.55	6.0	300	4.56	0.034	10	0.14	22.13	-78.8	
	SAMPLE	TIME	1440							

SIGNATURE(S):

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 10I01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 10I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: Merv Dale

SAMPLING DATA

	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Date: 3/1/05								
Time: 1005								
Method: Peristaltic	clear	4.66	0.030	22.20	4.0	0.56	-7.9	

PURGE DATA

Date:	
Method:	Peristaltic
Monitor Reading (ppm):	0.5
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	35
Static Water Level (ft):	7.71
MD One ~~Screen~~ System Volume(gal/L):	1 liter
Start Purge (hrs):	0941
End Purge (hrs):	0955
Total Purge Time (min):	14
Total Vol. Purged (gal/L):	4.3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-00~~ None MD

Signature(s): Maurin Dale

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 10
DATE: 3/1/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0941	7.71	0	—	—	—	—	—	—	—	START
0945	7.78	1.2	300	4.58	0.031	11	1.09	21.24	38.9	System volume reached
0949	7.78	2.4	300	4.63	0.030	7.1	0.96	21.91	-3.0	clear
0952	7.78	3.3	300	4.64	0.030	5.3	0.66	22.05	-7.2	clear
0955	7.78	4.3	300	4.66	0.030	4.0	0.56	22.20	-7.9	clear, stable

SIGNATURE(S): Marvin W. Dale

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 11D01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 11D

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05 Time: 1100	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	3.80	0.040	23.37	0.8	0.14	100.8	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.2
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	60
Static Water Level (ft):	7.23
One Screen Volume(gal):	@1L
Start Purge (hrs):	1020
End Purge (hrs):	1055
Total Purge Time (min):	35
Total Vol. Purged (gal):	105

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ None

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 11D
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1020	7.23	—	300	—	—	—	—	—	—	START PURGE
1025	7.30	1.5	300	4.71	0.043	5.4	1.31	23.16	233.0	
1030	7.30	3.0	300	4.35	0.042	2.3	0.42	23.34	134.3	
1035	7.30	4.5	300	4.11	0.041	1.9	0.25	23.24	127.9	
1040	7.30	6.0	300	3.60	0.041	1.8	0.20	23.26	117.6	
1045	7.30	7.5	300	3.83	0.040	1.2	0.15	23.50	108.6	
1050	7.30	9.0	300	3.81	0.040	1.0	0.14	23.41	103.4	
1055	7.30	10.5	30	3.80	0.040	0.8	0.14	23.37	100.8	
	Sample	Time	1100							

SIGNATURE(S): [illegible]

COPY

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Tetra Tech NUS, Inc. GROUNDWATER SAMPLE LOG SHEET

Project / Site:	NSAP, Supplemental Assessment (NASCF)	Sample ID No.:	M18GL 12D01
Project No.:	N9945 SY0 050 130	Sample Location:	CEF-M18 12D

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: PL/AP

SAMPLING DATA

Date: 2/28/05	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1510								
Method: Peristaltic	CLEAR	4.86	0.049	21.97	7.6	0.17	-20.4	

PURGE DATA

Date:	2/28/05
Method:	Peristaltic
Monitor Reading (ppm):	0.2
Well Casing Diameter:	2-inch
Well Casing Material:	PVC
Total Well Depth (ft):	60
Static Water Level (ft):	6.07
One Screen Volume(gal/L):	@1L
Start Purge (hrs):	1448
End Purge (hrs):	1508
Total Purge Time (min):	20
Total Vol. Purged (gal/L):	6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Laboratory	Collected
Select VOCs BTEX only	HCL	3 - 40 ml vials	Accutest	✓

OBSERVATIONS / NOTES

Dedicated tubing in situ.

LAB INFO

LAB: Accutest
4405 Vineland Rd., C-15
Orlando, FL 32811

COC #: NSAP-1

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.: ~~CEF-M18-DUP1-06~~ None (PL)

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NAS CECIL FIELD
PROJECT NUMBER: N9945 SY0 050 130
WELL ID.: CEF-M18 12D
DATE: 2/28/05

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1448	6.07	–	300	–	–	–	–	–	–	START PURGE
1453	6.20	1.5	300	4.86	0.053	16	0.56	22.21	5.7	
1458	6.20	3.0	300	4.82	0.050	11	0.32	22.13	0.9	
1503	6.20	4.5	300	4.89	0.051	10	0.21	21.97	-17.4	
1508	6.20	6.0	300	4.86	0.049	7.6	0.17	21.97	-20.4	

SAMPLE TIME 1510

SIGNATURE(S):

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ATTACHMENT C

LABORATORY ANALYTICAL REPORT

Southeast ACCUTEST Laboratories

03/16/05

Technical Report for

Tetra Tech NUS

NAS Cecil Field-CTO #361

N9945-WR1000892

Accutest Job Number: F30088

Sampling Dates: 02/24/05 - 03/01/05

Report to:

Tetra Tech, NUS

dalem@ttnus.com

ATTN: Merv Dale

Total number of pages in report: 26

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

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Sample Summary

Tetra Tech NUS

Job No: F30088

NAS Cecil Field-CTO #361
Project No: N9945-WR1000892

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F30088-1	02/24/05	13:29 AP	03/02/05	AQ	Trip Blank Water	M18TL00101
F30088-2	02/25/05	13:15 AP	03/02/05	AQ	Ground Water	M18GL06I01
F30088-3	02/25/05	13:45 AP	03/02/05	AQ	Ground Water	M18GL07I01
F30088-4	02/28/05	09:05 AP	03/02/05	AQ	Equipment Blank	M18EL00101
F30088-5	02/28/05	09:40 AP	03/02/05	AQ	Ground Water	M18GL02S01
F30088-6	02/28/05	09:45 AP	03/02/05	AQ	Field Blank Water	M18FL00101
F30088-7	02/28/05	10:10 AP	03/02/05	AQ	Ground Water	M18GL02I01
F30088-8	02/28/05	11:00 AP	03/02/05	AQ	Ground Water	M18GL11D01
F30088-9	02/28/05	00:00 AP	03/02/05	AQ	Ground Water	M18GL02I01D
F30088-10	02/28/05	13:10 AP	03/02/05	AQ	Ground Water	M18GL08I01
F30088-11	02/28/05	13:50 AP	03/02/05	AQ	Ground Water	M18GL03I01
F30088-12	02/28/05	14:40 AP	03/02/05	AQ	Ground Water	M18GL09I01
F30088-13	02/28/05	15:10 AP	03/02/05	AQ	Ground Water	M18GL12D01

Sample Summary
(continued)

Tetra Tech NUS

Job No: F30088

NAS Cecil Field-CTO #361
Project No: N9945-WR1000892

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F30088-14	03/01/05	10:05 AP	03/02/05	AQ	Ground Water	M18GL10I01
F30088-15	03/01/05	10:12 AP	03/02/05	AQ	Ground Water	M18GL04I01
F30088-16	03/01/05	11:00 AP	03/02/05	AQ	Ground Water	M18GL05I01
F30088-17	03/01/05	11:02 AP	03/02/05	AQ	Ground Water	M18GL01S01

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Tetra Tech NUS **Job No:** F30088

Site: NAS Cecil Field-CTO #361 **Report Date:** 3/8/2005 3:34:15 PM

15 Samples and 1 Trip Blank and 1 Field Blank were collected on between 02/24/2005 and 03/01/2005 and were received at Accutest on 03/02/2005 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of F30088. 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:** VM163

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F30088-2MS, F30088-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VM164

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F30088-12MS, F30088-12MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN126

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F30088-14MS, F30088-14MSD 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 8, 2005

Ellen Pampel, Inorganic QA (signature on file)

Tuesday, March 08, 2005

Report of Analysis

Client Sample ID:	M18TL00101		
Lab Sample ID:	F30088-1	Date Sampled:	02/24/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003707.D	1	03/03/05	NJ	n/a	n/a	VM163
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	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	100%		73-126%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	94%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL06I01		
Lab Sample ID:	F30088-2	Date Sampled:	02/25/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003703.D	1	03/03/05	NJ	n/a	n/a	VM163
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	1.0	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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	100%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

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

Report of Analysis

Client Sample ID:	M18GL07I01		
Lab Sample ID:	F30088-3	Date Sampled:	02/25/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003710.D	1	03/03/05	NJ	n/a	n/a	VM163
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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	98%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	89%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18EL00101		
Lab Sample ID:	F30088-4	Date Sampled:	02/28/05
Matrix:	AQ - Equipment Blank	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003708.D	1	03/03/05	NJ	n/a	n/a	VM163
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	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	98%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	93%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL02S01		
Lab Sample ID:	F30088-5	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003711.D	1	03/03/05	NJ	n/a	n/a	VM163
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	106%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	89%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18FL00101		
Lab Sample ID:	F30088-6	Date Sampled:	02/28/05
Matrix:	AQ - Field Blank Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003709.D	1	03/03/05	NJ	n/a	n/a	VM163
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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	99%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	90%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL02I01		
Lab Sample ID:	F30088-7	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003712.D	1	03/03/05	NJ	n/a	n/a	VM163
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	0.85	1.0	0.50	ug/l	I
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)	11.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	88%		83-119%

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

Report of Analysis

Client Sample ID:	M18GL11D01		
Lab Sample ID:	F30088-8	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003713.D	1	03/03/05	NJ	n/a	n/a	VM163
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	108%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	87%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL02I01D		
Lab Sample ID:	F30088-9	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003714.D	1	03/03/05	NJ	n/a	n/a	VM163
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	0.87	1.0	0.50	ug/l	I
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)	11.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	87%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL08I01		
Lab Sample ID:	F30088-10	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003715.D	1	03/03/05	NJ	n/a	n/a	VM163
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	109%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	86%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL03I01		
Lab Sample ID:	F30088-11	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003716.D	1	03/03/05	NJ	n/a	n/a	VM163
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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	85%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL09I01		
Lab Sample ID:	F30088-12	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0003724.D	1	03/04/05	NJ	n/a	n/a	VM164
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	16.0	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	108%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	88%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL12D01		
Lab Sample ID:	F30088-13	Date Sampled:	02/28/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0002771.D	1	03/03/05	NJ	n/a	n/a	VN126
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	0.55	1.0	0.50	ug/l	I
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	102%		86-115%
17060-07-0	1,2-Dichloroethane-D4	101%		73-126%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL10I01		
Lab Sample ID:	F30088-14	Date Sampled:	03/01/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0002765.D	1	03/03/05	NJ	n/a	n/a	VN126
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	10.7	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	100%		86-115%
17060-07-0	1,2-Dichloroethane-D4	101%		73-126%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL04I01		
Lab Sample ID:	F30088-15	Date Sampled:	03/01/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0002768.D	1	03/03/05	NJ	n/a	n/a	VN126
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	13.1	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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	102%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL05I01		
Lab Sample ID:	F30088-16	Date Sampled:	03/01/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0002769.D	1	03/03/05	NJ	n/a	n/a	VN126
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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	100%		73-126%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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:	M18GL01S01		
Lab Sample ID:	F30088-17	Date Sampled:	03/01/05
Matrix:	AQ - Ground Water	Date Received:	03/02/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO #361		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0002770.D	1	03/03/05	NJ	n/a	n/a	VN126
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	102%		86-115%
17060-07-0	1,2-Dichloroethane-D4	102%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	98%		83-119%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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. F30088 CHAIN OF CUSTODY | NUMBER NSAP-1 | PAGE 1 OF 3

PROJECT NO: N0945, CTO 361	FACILITY: NSAP, NASCF	PROJECT MANAGER: PAUL CALLIGAN	PHONE NUMBER: 813 806 6202
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: Mark Dale	PHONE NUMBER: 904 636 6125
		CARRIER/WAYBILL NUMBER: Fedex 8427 1834 9580	

LABORATORY NAME AND CONTACT: ACCUTEST H.
ADDRESS: 4405 Vineland Rd.
CITY, STATE: ORLANDO, FL 32811

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

	DATE YEAR 2005	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BTEX - 8260B (CONTAINER TYPE PLASTIC (P) or GLASS (G): G; PRESERVATIVE USED: HCL)	COMMENTS
1	02/24	1329	M18TL00101				QC	G	2	✓	
2	02/25	1315	M18GL06I01				GW	G	3	✓	Cool to 4°C
3	02/25	1345	M18GL07I01				GW	G	3	✓	
4	02/25	0905	M18EL00101				QC	G	3	✓	Work Release
5	02/28	0940	M18GL02S01				GW	G	3	✓	1000892
6	02/28	0945	M18FL00101				QC	G	3	✓	
7	02/28	1010	M18GL02I01				GW	G	3	✓	
8	02/28	1100	M18GL11D01				GW	G	3	✓	
9	02/28	0000	M18GL02I01D				GW	G	3	✓	
10	02/28	810	M18GL08I01				GW	G	3	✓	
11	02/28	1350	M18GL03I01				GW	G	3	✓	
12	02/28	1440	M18GL09I01				GW	G	3	✓	
13	02/28	1510	M18GL12D01				GW	G	3	✓	

1. RELINQUISHED BY: [signature]	DATE 3/1/05	TIME 1600	1. RECEIVED BY: Fedex	DATE 3/1/05	TIME
2. RELINQUISHED BY: FX	DATE 3/2/05	TIME 9:00	2. RECEIVED BY: [signature]	DATE 3/2/05	TIME 9:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

1.8

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F30088: Chain of Custody
Page 1 of 3

TETRA TECH NUS, INC. F30088

CHAIN OF CUSTODY NUMBER NSAP-1

PAGE 2 OF 2

PROJECT NO: N9945 CTO 361

FACILITY: NSAP, NASCF

SAMPLERS (SIGNATURE): Charles M[illegible] / Marvin W. Dale

PROJECT MANAGER: PAUL CALLIGAN

PHONE NUMBER: 813 806 0202

FIELD OPERATIONS LEADER: MERV DALE

PHONE NUMBER: 904 636 6125

CARRIER/WAYBILL NUMBER: Fedex 8427 1834 9580

LABORATORY NAME AND CONTACT: ACCUTEST H. WH

ADDRESS: 4405 Vineland Rd. C-1

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: NCR

TYPE OF ANALYSIS: BTEX-8260B

	DATE YEAR 2005	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	BTEX-8260B	COMMENTS
14	3/1	1005	M18GL10I01				GW	G	3	✓	Cool to 4°C
15	3/1	1012	M18GL04I01				GW	G	3	✓	
16	3/1	1100	M18GL05I01				GW	G	3	✓	Work Release 1000892
17	3/1	1102	M18GL01S01				GW	G	3	✓	

1. RELINQUISHED BY: Marvin W. Dale — DATE 3/1/05 TIME 1600 — 1. RECEIVED BY: Fedex
2. RELINQUISHED BY: FX — DATE 3/2/05 TIME 9:00 — 2. RECEIVED BY:
3. RELINQUISHED BY: — DATE — TIME — 3. RECEIVED BY: — DATE 3/1/05 TIME — DATE 3/2/05 TIME 9:00

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE)

F30088: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30088 CLIENT: Tetra Tech PROJECT: N9945, CTO 361

DATE/TIME RECEIVED: 3/2/05 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.8

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

AIRBILL NUMBERS:

COOLER INFORMATION

- [x] CUSTODY SEAL NOT PRESENT/INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSES NOT MARKED ON 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

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] SAMPLE RECEIVED PAST HOLD TIME
- [ ] 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(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 3/2/05 TECHNICIAN SIGNATURE/DATE Steven Creamy 3-2-05

ASBD02/04/05

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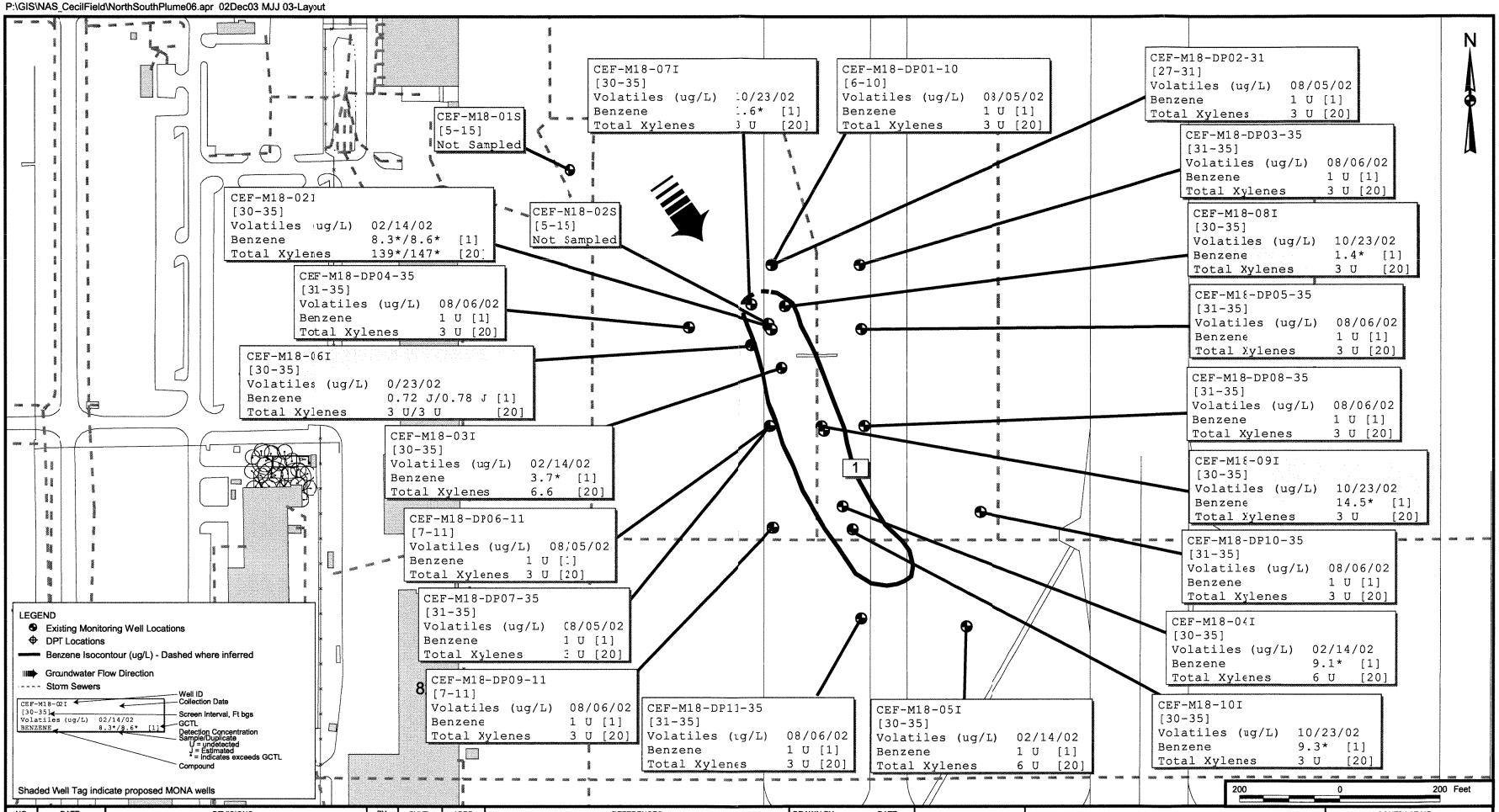
F30088: Chain of Custody
Page 3 of 3

ATTACHMENT D

FIGURES 3 AND 4 FROM THE SSAR (TtNUS, 2003)

P:\GIS\NAS_CecilField\NorthSouthPlume06.apr 02Dec03 MJJ 03-Layout



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MJJ DATE 15Nov02
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER VOC RESULTS
NORTH-SOUTH APRON PLUME
SUPPLEMENTAL ASSESSMENT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

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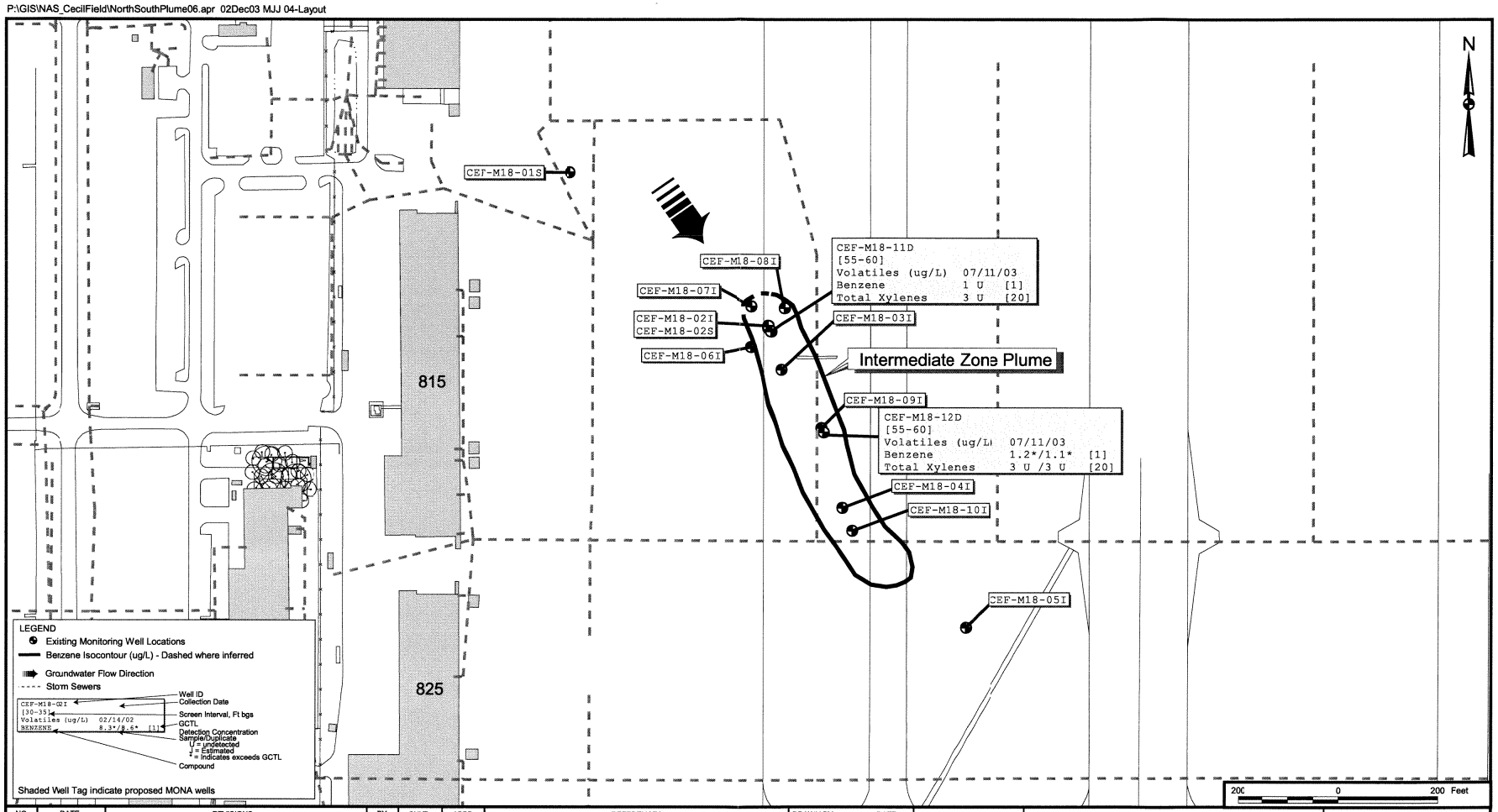
APPROVED BY DATE
DRAWING NO. FIGURE 3
REV. 1

P:\GIS\NAS_CecilField\NorthSouthPlume06.apr 02Dec03 MJJ 04-Layout



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY MJJ	DATE 15Nov03
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE AS NOTED	

DEEP WELL GROUNDWATER VOC RESULTS
NORTH-SOUTH APRON PLUME
SUPPLEMENTAL ASSESSMENT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

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APPROVED BY	DATE
DRAWING NO. FIGURE 4	REV. 0