Comprehensive Long-term Environmental Action Navy

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Site Assessment Report Addendum for Underground Storage Tank (UST) Site 18

Naval Air Station Pensacola
Pensacola, Florida

Contract Task Order 0005

October 2008

NAVFAC
Naval Facilities Engineering Command
NAVFAC SOUTHEAST

NAS Jacksonville
Jacksonville, Florida 32212-0030

TETRA TECH NUS, Inc.

Rev. 1
10/31/08

SITE ASSESSMENT REPORT ADDENDUM
FOR
UNDERGROUND STORAGE TANK (UST) SITE 18

NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION-NAVY (CLEAN) CONTRACT

Submitted to:
Naval Facilities Engineering Command
Southeast
NAS Jacksonville
Jacksonville, Florida 32212

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PROFESSIONAL CERTIFICATION

Site Assessment Report Addendum
Underground Storage Tank (UST) Site 18
Naval Air Station Pensacola, Florida

This Site Assessment Report Addendum was prepared under the direct supervision of the undersigned geologist using geologic and hydrogeologic principles standard to the profession at the time the report was prepared. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of additional information on the assessment described in this report. This report was developed specifically for the referenced site and should not be construed to apply to any other site.

Gerald Walker

Gerald Walker, P.G
Florida License No. PG

October 29, 2008
Date

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ACRONYMS AND ABBREVIATIONS

BTEX	benzene, toluene, ethylbenzene, and total xylenes
bls	below land surface
BTOC	below top of casing
CAR	Contamination Assessment Report
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CH2MHILL	CH2M Hill Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Action Navy
COC	contaminant of concern
DPT	direct-push technology
EAH	Ensafe/Allen & Hoshall
EDB	ethylene dibromide or 1,2-dibromoethane
EGIS	Environmental Geographic Information System
Ensafe	Ensafe, Inc.
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	Flame Ionization Detector
FL-PRO	Florida Petroleum Range Organics
ft	feet
ft^2	square feet
GAG	Gasoline Analytical Group
GCTLs	Groundwater Cleanup Target Levels
GPS	Global Positioning System
ID	Inside Diameter
IR	Installation Restoration
KAG	Kerosene Analytical Group
LNAPL	light non-aqueous phase liquid
MOP	Monitoring Only Plan
MSL	mean sea level (relative groundwater elevation)
MTBE	methyl tertiary-butyl ether
NADSC	Natural Attenuation Default Source Concentration
NAS	Naval Air Station
NAVFAC SE	Naval Facilities Engineering Command, Southeast
OVA	Organic Vapor Analyzer
PAH	Polynuclear Aromatic Hydrocarbons
PVC	Poly Vinyl Chloride

ACRONYMS AND ABBREVIATIONS (CONTINUED)

RAP	Remedial Action Plan
SAR	Site Assessment Report
SARA	Site Assessment Report Addendum
SOP	Standard Operating Procedure
TPH	Total Petroleum Hydrocarbon
TRPH	Total Recoverable Petroleum Hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	volatile organic compounds

EXECUTIVE SUMMARY

Tetra Tech NUS, Inc. (TtNUS) has been authorized by Naval Facilities Engineering Command, Southeast (NAVFAC SE) to complete a supplemental site assessment for a petroleum impacted site at Naval Air Station (NAS) Pensacola in Escambia County, Florida. This assessment evaluated the impact to groundwater resulting from the operation of a fire fighting training area located at Underground Storage Tank (UST) Site 18, NAS Pensacola. This Site Assessment Report Addendum (SARA) has been prepared to summarize the data and provide conclusions and recommendations for the site assessment.

Site Assessment

The following activities were conducted as part of this supplemental assessment:

- Assessment of the nature and extent of petroleum constituents in groundwater in the vicinity of UST Site 18 using direct-push technology (DPT) methods for groundwater sampling and mobile laboratory analysis.
- Light non-aqueous phase liquid (LNAPL) assessment around monitoring wells GS05 and GS26.
- Completion of deep soil borings to confirm the site lithology.
- Installation of 28 permanent monitoring wells (9 shallow wells, 14 intermediate wells, and 5 deep wells).
- Measurements of water level at various monitoring well locations to interpret the movement of groundwater at the site.
- Collection of groundwater samples from 65 permanent monitoring wells for laboratory analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), ethylene dibromide (EDB), total recoverable petroleum hydrocarbons (TRPH), and lead.
- Comparison of the groundwater analytical results to the Groundwater Cleanup Target Levels (GCTLs) in Chapter 62-777, Florida Administrative Code (FAC).

Conclusions and Recommendations

The conclusions based on the data collected during the site assessment performed by TtNUS at UST Site 18 are summarized as follows:

- The low permeability clay unit identified approximately 60 feet (ft) below land surface (bls) is not believed to be continuous across the entire site. The unit ranges in thickness from 2 to 4 ft and is not present at the southern portion of the site. However, a deeper clay unit at approximately 82 ft bls is believed to act as an aquitard across the site throughout the entire investigation area.

- General horizontal groundwater flow is across the site toward the south-southeast. A downward vertical gradient in groundwater flow exists at UST Site 18.

- LNAPL was present in monitoring well NASP18-GS26. LNAPL was not detected in any other on-site monitor wells or in temporary wells installed within 25 ft of monitoring wells NASP18-GS26 and NASP18-GS05.

- Petroleum contaminants, including as benzene, toluene, ethylbenzene, and total xylenes (BTEX), detected at concentrations above the Florida Department of Environmental Protection (FDEP) GCTLs are present in the groundwater from the water table (approximately 3 ft bls) to approximately 60 ft bls. The majority of contamination is present in the shallow groundwater zone from the water table to approximately 20 feet below land surface (water table to 20 ft bls). Contamination was reported observed in the groundwater at approximately 75 ft bls between the two clay units identified in the northern portion of the site. Contamination of the deeper groundwater flow zone (approximately 62 ft bls) was not reported in the southern portion of the site, where the upper clay unit is believed to be absent.

- Two separate groundwater plumes were identified on the site. The largest plume is present over the northern and central portions of the site and is present down to 60 ft bls. A smaller plume extends over the southern portion of the site and extends vertically to approximately 40 ft bls. Both plumes contain contamination concentrations exceeding the GCTLs and Natural Attenuation Default Source Concentration (NADSCs) values.

- Iron and manganese were detected above FDEP GCTLs in most of the shallow, intermediate, and deep groundwater monitoring wells.

- Groundwater contamination was identified upgradient (northwest) of the previously defined site activity area. It is unclear if the exceedances in this area are related to the fire fighting training activities or from additional activity previously conducted in the vicinity.

Based upon the data presented in this SARA and the requirements of Chapter 62-770, FAC, TtNUS recommends that a Remedial Action Plan (RAP) Addendum be completed to address remediation of UST Site 18 groundwater.

Because impacted groundwater is present in excess of NADSC values, TtNUS recommends that a RAP addendum be completed for UST Site 18. In addition, TtNUS recommends that immediate remediation of free product occur by bailing or using sorbent materials in the monitoring well NASP18-GS26.

1.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

This SARA has been prepared by TtNUS under the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055 Contract Task Order 0005 for the additional assessment of UST Site 18 located at NAS Pensacola in Pensacola, Florida. The initial assessment of UST Site 18 was summarized in a Contamination Assessment Report (CAR) performed by Ensafe/Allen & Hoshell (EAH) in 1996. Since 1996, the FDEP has requested that all CARs be titled Site Assessment Reports (SARs). Therefore, this report is a SARA. This SARA provides the results of additional groundwater delineation sampling that was conducted at UST Site 18 between February 10 and May 12, 2006.

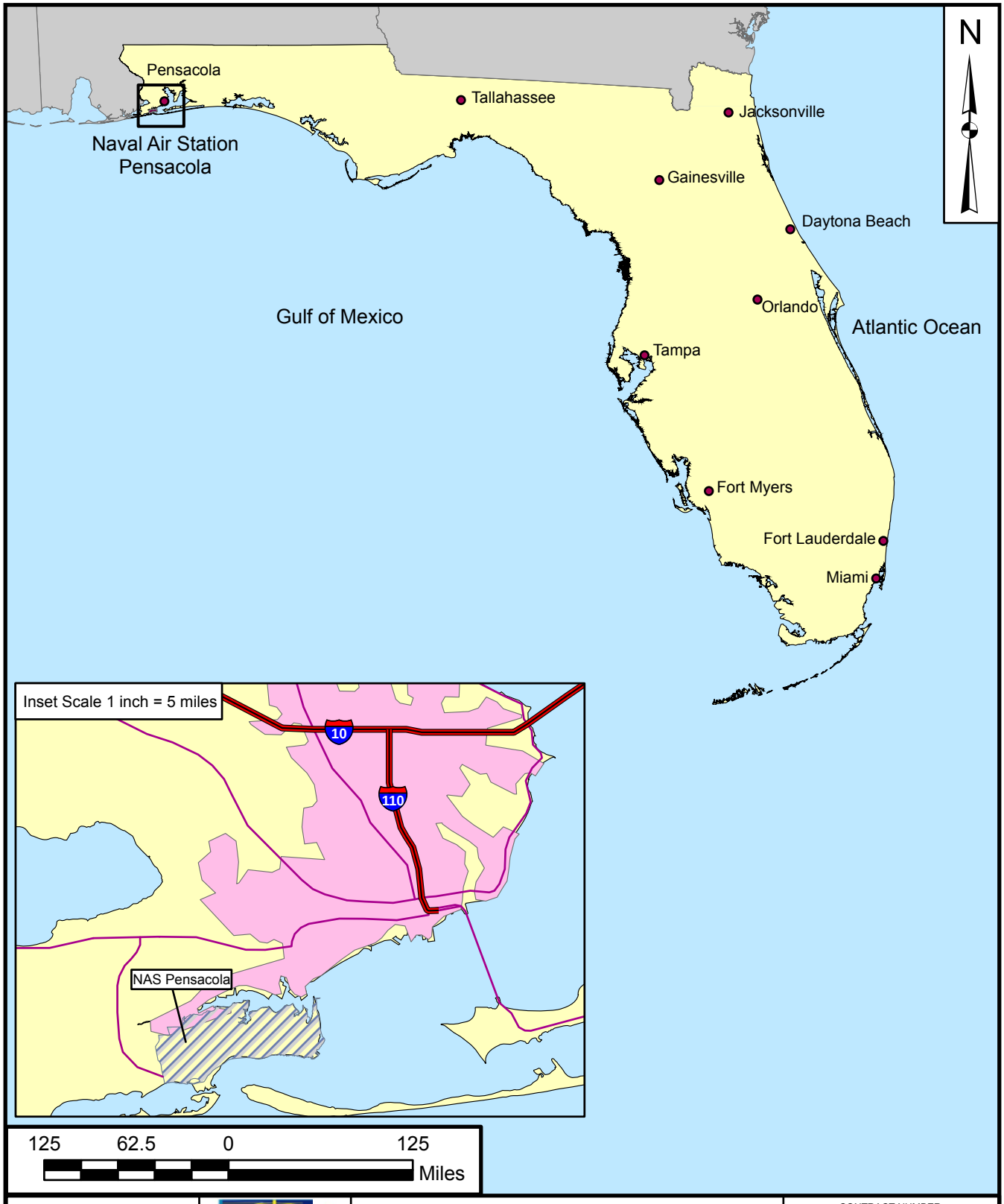
1.1 SITE LOCATION

UST Site 18 is located on NAS Pensacola in Escambia County, Florida and occupies approximately 47.5 acres of open land along the southwestern border of Forrest Sherman Field. The site is bordered on the east by aircraft Runway 19, to the north by a paved taxiway, to the west by scattered brush and woods, and to the south by an open field. A general site vicinity map is included as Figure 1-1. The site location can be seen on Figure 1-2 and site features are shown on Figure 1-3.

1.2 SITE HISTORY

Between 1955 and 1997, the UST Site 18 area was used to train firefighters for aircraft crash responses, using available fuel as a combustion source. Historically, during training exercises, approximately 30 to 700 gallons of fuel were poured into unlined pits or onto various pieces of equipment and then ignited to simulate aircraft crashes. Four circular pits are depicted on Figure 1-3 and are depicted on historical Figure 2-3 [CH2M Hill Constructors, Inc. (CH2MHILL), 2003] in Appendix A. Historical Figure 2-2 (EAH, 1996) in Appendix A crudely depicts eight former burn pits.

The northernmost pit, which was lined and filled with water, contained a mock aircraft cockpit. Several other burn pits contained miscellaneous pieces of equipment, including a fuel trailer, various airplane parts, and metal and non-metallic debris of unknown, but presumably of aircraft origin. Most recently, only the northernmost pit was used for fire training. Firefighter training ceased at UST Site 18 in May 1997 (CH2MHILL, 2003).



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CHECKED BY K. WIMBLE	DATE 10/17/06		APPROVED BY ___ DATE ___
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SCALE AS NOTED			FIGURE NO. FIGURE 1 - 1 / REV 0

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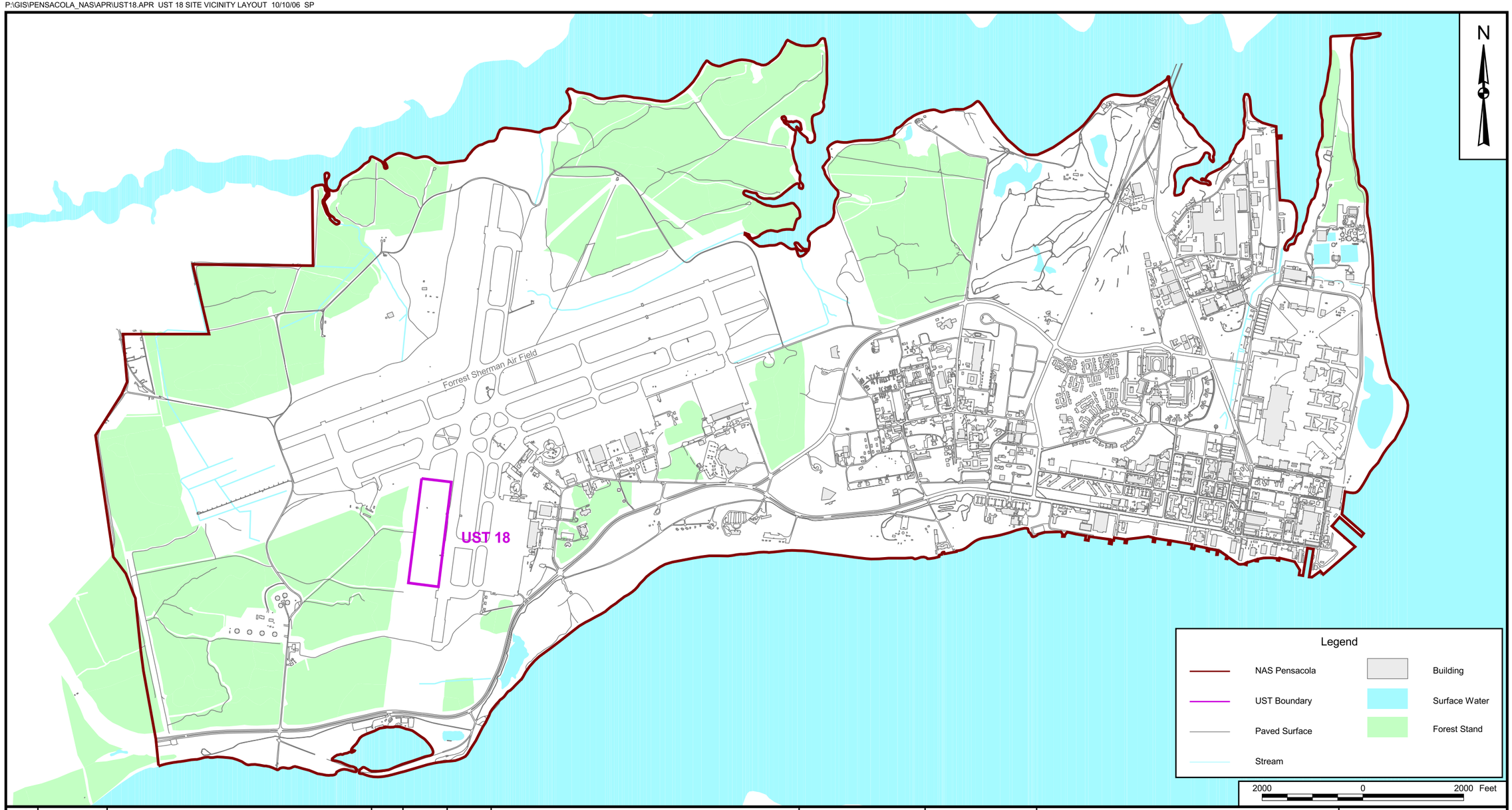

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CHECKED BY C. METZ	DATE 10/10/06
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SCALE AS NOTED	

NAVFAC

SITE LOCATION MAP
UST SITE 18
NAS PENSACOLA
PENSACOLA, FL

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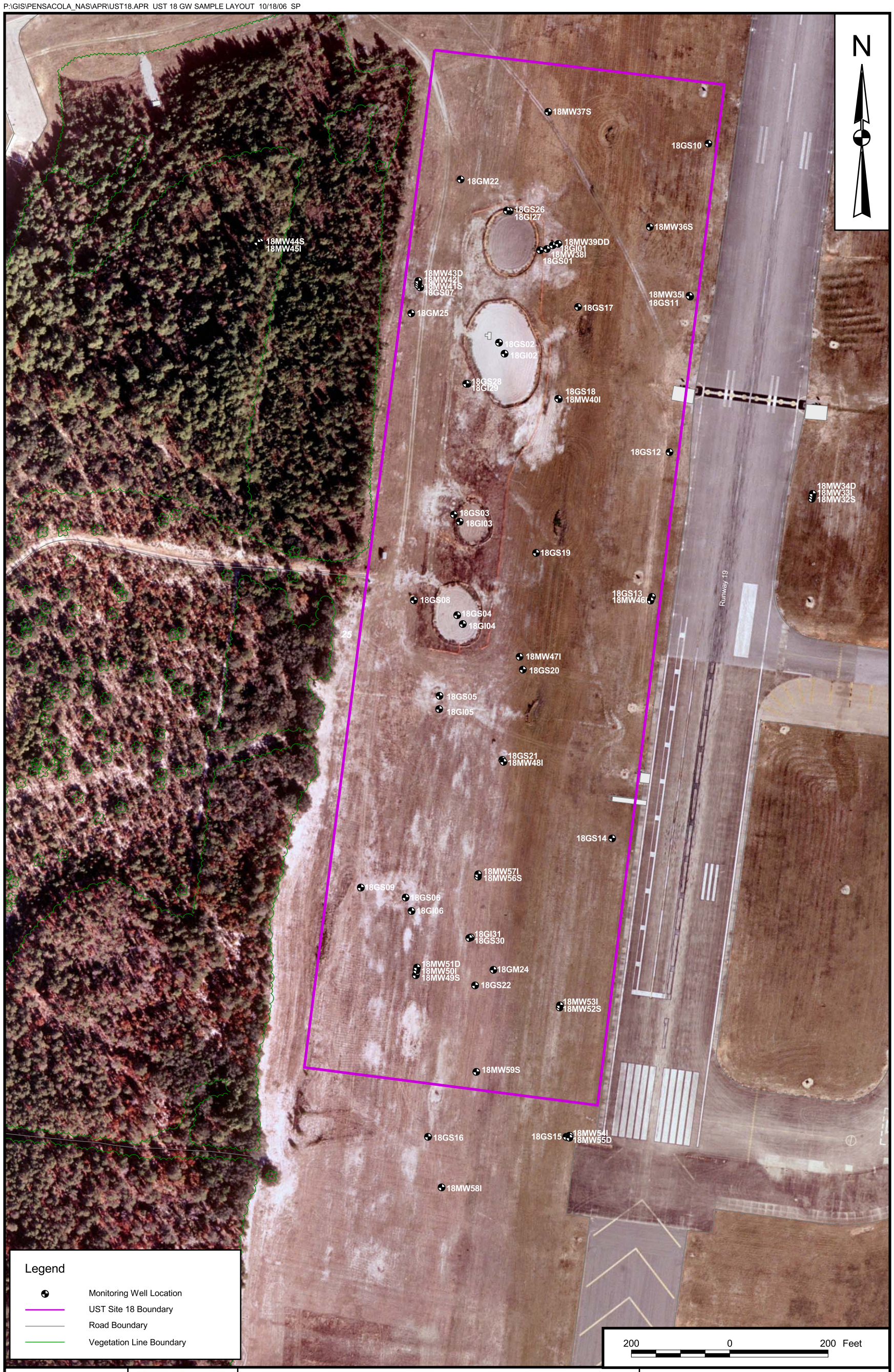
P:\GIS\PENSACOLA_NAS\APR\UST18.APR UST 18 GW SAMPLE LAYOUT 10/18/06 SP



DRAWN BY C. SPEHAR	DATE 04/18/06	SITE FEATURES UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
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COST/SCHEDULE-AREA			APPROVED BY — DATE —
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1.3 PREVIOUS INVESTIGATION

UST Site 18 was initially investigated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as Installation Restoration (IR) Site 3. Field work indicated only the presence of petroleum related constituents resulting in the NAS Pensacola Tier 1 Partnering Team transferring the site to the petroleum program in March 1995 [EAH, 1996].

A CAR was prepared for UST Site 18 in January 1996 by EAH. As part of the CAR, 22 permanent shallow and intermediate groundwater monitoring wells were installed and soil, sediment, groundwater, and surface water samples were collected and analyzed for petroleum constituents. Contaminants consistent with fuel contamination, including BTEX, EDB, naphthalene, and lead were detected (EAH, 1996).

A RAP was prepared by EnSafe, Inc. (EnSafe) for UST Site 18 on December 19, 1997. The RAP proposed using landfarming to remediate the soil contamination and thereby removing the source of groundwater contamination. Groundwater modeling indicated that natural attenuation would remediate the groundwater once the landfarming was complete. A Monitoring Only Plan (MOP) was proposed for groundwater remediation (Ensafe, 1997).

CH2MHILL performed a remedial action for the impacted soil at UST Site 18 that consisted of the landfarming of petroleum contaminated soil in the four former firefighter training burn pits. Landfarming activities were conducted between September 2000 and September 2001 and consisted of biweekly soil tilling and the collection and analysis of monthly soil samples and groundwater samples from specific groundwater monitoring wells. LNAPL was detected in NASP-18GS05 during the first two monthly monitoring events conducted during landfarming remediation. The tilling was accomplished using a farm tractor and disk harrow, which turned and aerated the soil to a depth of 6 inches bls. Landfarming operations ceased in September 2001 when soil analytical results indicated that soil cleanup goals had been achieved (CH2MHILL, 2003).

Quarterly groundwater monitoring was performed to evaluate whether the groundwater concentrations were decreasing after the remediation of the impacted soil and to ensure that the point-of-compliance wells were not affected. CH2MHILL performed groundwater monitoring monthly from December 2000 through August 2001 and quarterly until December 2002. Concentrations of BTEX, PAHs, TRPH, and lead were consistently reported to exceed FDEP GCTLs during quarterly sampling. Historical Figure 2-3, Appendix A (CH2MHILL, 2003), presents the December 2002 groundwater contamination results for the quarterly sampling event.

CH2MHILL performed its last sampling event in December 2002. Groundwater analytical results indicated that petroleum constituent concentrations were not decreasing at UST Site 18 (CH2MHILL, 2003). NAVFAC SE then requested that TtNUS perform a treatability study to evaluate PermeOx® Plus for remediation of petroleum hydrocarbons. During the planning of the treatability study, TtNUS recommended performing an additional groundwater investigation to better define the groundwater contamination in an effort to reduce the size of the treatment area.

Supplemental site assessment activities were performed by TtNUS in August 2003 to further delineate the groundwater contamination and to provide a baseline for the treatability study. The study consisted of a DPT investigation and subsequent groundwater sampling and analysis from both selected DPT locations and from site monitoring wells (TtNUS, 2003).

Two main areas of contamination were identified during the additional groundwater investigation. A northern plume was identified around the four former pits. A southern plume was found to exist south of the four former pits. Both plumes were migrating southeast (with the groundwater flow direction) from their source areas. The aerial extent of contamination for both areas was larger than what was identified by CH2MHILL. In addition, contamination was detected down to 50 ft bls (maximum depth sampled) and was assumed to extend to the confining unit that reportedly occurred between 50 and 60 ft bls. Details of the additional investigation are provided in the Enhanced Natural Attenuation Treatability Study Work Plan for UST Site 18 (TtNUS, 2003).

The PermeOx® Plus injection event was conducted from December 3 to December 17, 2003. This pilot-scale treatability study consisted of the installation of 219 injection borings (143 in the northern plume and 76 in the southern plume) into which a PermeOx® Plus enriched slurry was injected. Select groundwater monitoring wells were then monitored for site contaminants of concern (COCs) and natural attenuation parameters for four quarters to evaluate the effectiveness of enhanced bioremediation (TtNUS, 2005).

The Enhanced Natural Attenuation Study (PermeOx® Plus injection) concluded that there was no clear evidence of a reduction in site COCs after one year of monitoring. While COC concentrations had decreased temporarily in several wells, there was a rebound and no evidence that conditions favorable to enhanced biodegradation were occurring. Free product was detected in a shallow monitoring well (NASP18-GS26) on the northern portion of the site. The presence of free product indicated there was a continuing source of contamination and that previous soil remediation (landfarming) efforts may have not effectively removed all the contaminated soil (TtNUS, 2005). It was reasoned that contaminated soil exists

around the smear zone (underneath the landfarming effort) and continually contributes to the groundwater contamination.

The Enhanced Natural Attenuation Study recommended that further assessment of the plume(s) be conducted to gain a better understanding of the contaminant mass and location. The results from the monitoring from the fourth quarter, as compared to the first, second, and third quarters indicate that the COC concentrations have generally not decreased within the northern and southern area plumes. Concentrations of BTEX, TRPH, and PAHs in the fourth quarter continue to be elevated in wells which exhibited elevated concentrations in the first quarter monitoring.

Groundwater concentrations of the main contaminants initially increased and then decreased in the northern source area. The initial increase in concentrations has been observed in other biostimulation remedial projects. It has been attributed to a rapid mobilization of sorbed contaminant mass into the dissolved phase. This phenomenon appears to be short lived, and once the microbiota equilibrates with the new conditions, they consumed the dissolved contaminants. However, the last round of sampling indicates consistently elevated levels of contaminants with no clear indication of natural degradation.

It recommended the source of the southern plume be better defined because no known source exists there and landfarming remedial actions were not located in the area of the southern plume. Additional characterization was recommended between the northern and southern plumes where previous free product and known fire training areas have been identified. Areas around any well containing free product were to be investigated to delineate areas of soil contamination. This additional information was recommended because it will be instrumental in the selection and implementation of the future remedy selected for this site (TtNUS, 2005).

2.0 SITE ASSESSMENT METHODOLOGY

Groundwater and LNAPL assessment data were collected in order to further define the nature and extent of petroleum impact due to past firefighter training operations. The Triad Approach was used during this site investigation. This is a scientific effort supported by the United States Environmental Protection Agency (USEPA) to foster modernization of technical practices for characterizing and remediating chemically contaminated sites. The goal of the Triad Approach is to manage decision uncertainty and to increase confidence that project decisions are made correctly and cost-effectively. The three elements of the Triad Approach are systematic project planning, dynamic work strategies, and real-time measurement technologies. Systematic project planning supports confident decision making. Dynamic work strategies allow projects to be completed more efficiently and cost effective than ever possible under traditional static work strategies. Real-time measurement technologies makes dynamic work strategies possible by gathering, interpreting, and sharing data fast enough to support real-time decisions.

The site assessment methods used during this investigation are discussed below. The results of the investigation are presented in Sections 3.0 and 4.0.

2.1 LNAPL ASSESSMENT

The work plan proposed that soil samples be collected and screened with an organic vapor analyzer (OVA) flame ionization detector (FID) from land surface to the water table around the wells with detections of LNAPL. Select samples were then sent to a fixed-base laboratory for analysis and to provide data for contaminated soil delineation. However, during the field investigation, the depth to groundwater in the investigation area containing LNAPL was approximately 1 ft bls and prevented the soil screening proposed in the work plan from being completed.

According to a review of historical data, LNAPL was detected in NASP-18-GS05 during the first two monthly monitoring events conducted during landfarming remediation (CH2M Hill, 2003). However, LNAPL was not detected in NASP-18-GS05 during this site investigation. LNAPL was detected in one shallow monitoring well (NASP18-GS26) in the northern portion of the site, and is located on the northern edge of one of the former pits. The presence of LNAPL around this well was also assessed. To accomplish this, shallow temporary wells were installed 25 ft in each cardinal direction from each of the two monitoring wells that previously were reported to contain LNAPL. Temporary wells were screened across the soil/water interface to check for LNAPL occurrence. An oil-water interface probe was used to measure the presence and the thickness of LNAPL in each temporary well throughout the site investigation. The interface probe is able to measure the thickness of LNAPL in intervals as small as

0.01 ft. Any indication of LNAPL was noted on the groundwater level measurement field forms, which are included in Appendix B.

2.2 GROUNDWATER ASSESSMENT

The supplemental groundwater assessment was conducted at UST Site 18 to further define the vertical and horizontal extent of LNAPL and petroleum impacted groundwater reported in the Treatability Study Evaluation Report (TtNUS, 2005). In the first round of sampling events conducted between February and March 2006, DPT groundwater samples were collected and analyzed by an on-site mobile laboratory. Selected existing site wells were sampled during the DPT investigation and submitted to the on-site mobile laboratory. Following the DPT investigation, additional permanent monitoring wells were installed. The locations for the new monitoring wells were based on the data collected during the DPT/mobile laboratory investigation. Following installation of the new wells (in the second round of sampling events in April and May 2006), selected site monitoring wells (previously existing and newly installed) were sampled and the samples were submitted to a fixed-base laboratory for analysis for Gasoline Analytical Group (GAG) and the Kerosene Analytical Groups (KAG), which consist of USEPA Method 8260 for VOCs, USEPA Method 8270 for SVOCs, and Florida Petroleum Range Organics (FL-PRO) Method for total petroleum hydrocarbons (TPH).

2.2.1 Sampling Approach

A sampling grid was established over UST Site 18. The grid was expanded as needed and the completed grid consists of 602 sampling grids, each grid approximately 10,000 square feet (ft^2) (100 ft x 100 ft) in area. Groundwater samples were initially collected around the perimeter of the contamination plumes identified previously (TtNUS, 2003), and were submitted to the mobile laboratory. When an exceedance was detected in a mobile laboratory sample, a “step-out” approach was implemented to delineate the contamination. The field crew would “step-out” at various distances from an exceedance until the samples tested by the mobile laboratory did not detect contaminants above their respective FDEP GCTLs. The completed sampling grids are shown on Figure 2-1.

2.2.2 DPT Groundwater Investigation

Groundwater samples were collected from 80 locations (Table 2-1) with a DPT Geoprobe® rig. A groundwater sampler was attached to the DPT drive rods and pushed to the maximum desired sample depth. A retractable screen was then deployed from the groundwater sampler. Teflon lined tubing was inserted down the inside of the DPT rods into the groundwater sampler and was connected to a peristaltic pump. Groundwater was then pumped from the sampler screen for 5 to 10 minutes to reduce turbidity and draw a representative sample into the screen. A groundwater sample was then collected and

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SCALE	
AS NOTED	

NAVFAC

DPT AND GROUNDWATER SAMPLE LOCATIONS

UST SITE 18

NAS PENSACOLA

PENSACOLA, FLORIDA

CONTRACT NUMBER	
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FIGURE 2 - 1	0

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/101	10	6-16
2/10/2006	20	16-20
Easting: 1077887.127	30	26-30
Northing 500793.4274	40	36-40
	55	51-55
NASP18-GW-DPT/102	15	11-15
3/13/2006	35	31-35
Easting: 1077521.203	55	51-55
Northing 499081.1712	75	71-75
NASP18-GW-DPT/103	15	11-15
3/13/2006	35	31-35
Easting: 1077583.733	55	51-55
Northing 499574.0202	75	71-75
NASP18-GW-DPT/104	15	11-15
3/13/2006	35	31-35
Easting: 1077696.137	55	51-55
Northing 500239.7569	75	71-75
NASP18-GW-DPT/105	15	11-15
3/13/2006	35	31-35
Easting: 1077771.311	55	51-55
Northing 500766.8931	75	71-75
NASP18-GW-DPT/106	15	11-15
3/15/2006	35	31-35
Easting: 1077747.833	55	51-55
Northing 499227.4509	75	71-75
NASP18-GW-DPT/107	15	11-15
3/15/2006	35	31-35
Easting: 1077820.564	55	51-55
Northing 499632.9735		
NASP18-GW-DPT/108	15	11-15
3/16/2006	35	31-35
Easting: 1077900.162	55	51-55
Northing 500923.5673		
NASP18-GW-DPT/109	15	11-15
3/16/2006	35	31-35
Easting: 1077796.526	55	51-55
Northing 500944.6786		
NASP18-GW-DPT/110	15	11-15
3/17/2006	35	31-35
Easting: 10777881.999	55	51-55
Northing 501045.1743		

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/111	15	11-15
3/17/2006	35	31-35
Easting: 1077814.901	55	51-55
Northing 501152.8781		
NASP18-GW-DPT/112	15	11-15
3/17/2006	35	31-35
Easting: 1077611.701	55	51-55
Northing 500932.2852		
NASP18-GW-DPT/A6	10	6-10
2/9/2006	20	16-20
Easting: 1078041.078	30	26-30
Northing 501058.435	40	36-40
	55	51-55
NASP18-GW-DPT/A11	10	6-10
2/7/2006	20	16-20
Easting: 1077988.626	30	26-30
Northing 500781.3219	40	36-40
	55	51-55
NASP18-GW-DPT/A12	10	6-10
2/7/2006	20	16-20
Easting: 1077978.891	30	26-30
Northing 500737.8904	40	36-40
	55	51-55
NASP18-GW-DPT/A13	10	6-10
2/7/2006	20	16-20
Easting: 1077977.053	30	26-30
Northing 500682.9943	40	36-40
	55	51-55
NASP18-GW-DPT/A19	15	11-15
3/16/2006	35	31-35
Easting: 1077967.106	55	51-55
Northing 500416.0614	75	71-75
NASP18-GW-DPT/A23	15	11-15
3/19/2006	35	31-35
Easting: 1077949.597	55	51-55
Northing 500217.043	75	71-75
NASP18-GW-DPT/A27	15	11-15
3/18/2006	35	31-35
Easting: 1077929.664	55	51-55
Northing 500017.2582		

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/A37	10	6-10
2/16/2006	20	16-20
Easting: 1077830.705	30	26-30
Northing 499528.4021	40	36-40
	55	51-55
NASP18-GW-DPT/A51	15	11-15
3/14/2006	35	31-35
Easting: 1077776.885	55	51-55
Northing 498821.4572	75	71-75
NASP18-GW-DPT/B9	10	6-10
2/9/2006	20	16-20
Easting: 1078023.701	30	26-30
Northing 500906.9689	40	36-40
	55	51-55
NASP18-GW-DPT/B13	15	11-15
3/25/2006	35	31-35
Easting: 1078068.205	55	51-55
Northing 500707.5688		
NASP18-GW-DPT/B35	15	11-15
3/21/2006	35	31-35
Easting: 1077926.783	55	51-55
Northing 499613.949		
NASP18-GW-DPT/B40	15	11-15
3/18/2006	35	31-35
Easting: 1077895.652	55	51-55
Northing 499365.5891	75	71-75
NASP18-GW-DPT/C5	10	6-10
2/9/2006	20	16-20
Easting: 1078154.506	30	26-30
Northing 501100.5881	35	31-35
	40	36-40
	55	51-55
NASP18-GW-DPT/C15	10	6-10
2/9/2006	20	16-20
Easting: 1078059.992	30	26-30
Northing 500568.1996	40	36-40
	55	51-55
NASP18-GW-DPT/C19	10	6-10
2/12/2006	20	16-20
Easting: 1078041.536	30	26-30
Northing 500376.9799	40	36-40
	55	51-55

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/C22	15	11-15
3/22/2006	35	31-35
Easting: 1078058.285	55	51-55
Northing 500253.1401		
NASP18-GW-DPT/C24	10	6-10
2/16/2006	20	16-20
Easting: 1078047.372	30	26-30
Northing 500149.2354	40	36-40
	55	51-55
NASP18-GW-DPT/C37	10	6-10
2/15/2006	20	16-20
Easting: 1077964.753	30	26-30
Northing 499509.9233	40	36-40
	55	51-55
NASP18-GW-DPT/C43	10	6-10
2/16/2006	20	16-20
Easting: 1077926.531	30	26-30
Northing 499211.7432	40	36-40
	55	51-55
NASP18-GW-DPT/C46	15	11-15
3/14/2006	35	31-35
Easting: 1077905.489	55	51-55
Northing 499060.8805	75	71-75
NASP18-GW-DPT/D10	15	11-15
3/22/2006	35	31-35
Easting: 1078183.826	55	51-55
Northing 500844.6014	75	71-75
NASP18-GW-DPT/D26	15	11-15
3/19/2006	35	31-35
Easting: 1078081.484	55	51-55
Northing 500051.8229		
NASP18-GW-DPT/D29	15	11-15
3/19/2006	35	31-35
Easting: 1078062.756	55	51-55
Northing 499901.0251		
NASP18-GW-DPT/E17	15	11-15
3/19/2006	35	31-35
Easting: 1078198.464	55	51-55
Northing 500488.6122		

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/E34	10	6-10
2/15/2006	20	16-20
Easting: 1078082.48	30	26-30
Northing 499644.0565	40	36-40
	55	51-55
NASP18-GW-DPT/E37	10	6-10
2/14/2006	20	16-20
Easting: 1078065.244	30	26-30
Northing 499496.2713	40	36-40
	55	51-55
NASP18-GW-DPT/E40	10	6-10
2/15/2006	20	16-20
Easting: 1078046.687	30	26-30
Northing 499352.299	40	36-40
	55	51-55
NASP18-GW-DPT/E44	15	11-15
3/20/2006	35	31-35
Easting: 1078020.282	55	51-55
Northing 499148.5618		
NASP18-GW-DPT/F04	15	11-15
3/16/2006	35	31-35
Easting: 1078324.578	55	51-55
Northing 501125.898	75	71-75
NASP18-GW-DPT/F19	10	6-10
2/12/2006	20	16-20
Easting: 1078196.024	30	26-30
Northing 500351.2931	40	36-40
	55	51-55
NASP18-GW-DPT/F21	10	6-10
2/12/2006	20	16-20
Easting: 1078189.279	30	26-30
Northing 500253.0349	40	36-40
	55	51-55
NASP18-GW-DPT/F42	15	11-15
3/20/2006	35	31-35
Easting: 1078086.009	55	51-55
Northing 499244.2595	75	71-75
NASP18-GW-DPT/G24	10	6-10
2/14/2006	20	16-20
Easting: 1078232.106	30	26-30
Northing 500127.6024	40	36-40
	55	51-55

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/G27	10	6-10
2/14/2006	20	16-20
Easting: 1078220.786	30	26-30
Northing 499980.431	40	36-40
	55	51-55
NASP18-GW-DPT/G35	10	6-10
2/13/2006	20	16-20
Easting: 1078177.217	30	26-30
Northing 499583.8122	40	36-40
	55	51-55
NASP18-GW-DPT/G40	10	6-10
2/13/2006	20	16-20
Easting: 1078153.141	30	26-30
Northing 499337.5887	40	36-40
	55	51-55
NASP18-GW-DPT/G44	10	6-10
2/15/2006	20	16-20
Easting: 1078117.077	30	26-30
Northing 499135.1927	40	36-40
	55	51-55
NASP18-GW-DPT/G47	15	11-15
3/14/2006	35	31-35
Easting: 1078098.18	55	51-55
Northing 498987.4514	75	71-75
NASP18-GW-DPT/G51	15	11-15
3/14/2006	35	31-35
Easting: 1078074.603	55	51-55
Northing 498790.2462		
NASP18-GW-DPT/I5	10	6-10
2/11/2006	20	16-20
Easting: 1078463.699	30	26-30
Northing 501062.4261	40	36-40
	55	51-55
NASP18-GW-DPT/I17	10	6-10
2/11/2006	20	16-20
Easting: 1078388.457	30	26-30
Northing 500466.1281	40	36-40
	55	51-55
NASP18-GW-DPT/I21	15	11-15
2/15/2006	35	31-35
Easting: 1078362.695	55	51-55
Northing 500269.8847		

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/I25	15	11-15
3/17/2006	35	31-35
Easting: 1078940.772	55	51-55
Northing 500069.772		
NASP18-GW-DPT/I37	10	6-10
2/13/2006	20	16-20
Easting: 1078264.751	30	26-30
Northing 499474.3625	40	36-40
	55	51-55
NASP18-GW-DPT/I39	10	6-10
2/13/2006	20	16-20
Easting: 1078254.109	30	26-30
Northing 499369.1231	40	36-40
	55	51-55
NASP18-GW-DPT/I41	15	11-15
3/20/2006	35	31-35
Easting: 1078237.612	55	51-55
Northing 499274.8235		
NASP18-GW-DPT/I45	15	11-15
3/20/2006	35	31-35
Easting: 1078210.947	55	51-55
Northing 499077.7684		
NASP18-GW-DPT/J07	10	6-10
3/16/2006	20	16-20
Easting: 1078474.845	30	26-30
Northing 500963.2917	40	36-40
NASP18-GW-DPT/J09	10	6-10
2/10/2006	20	16-20
Easting: 1078493.495	30	26-30
Northing 500855.111	40	36-40
	55	51-55
NASP18-GW-DPT/K11	10	6-10
2/8/2006	20	16-20
Easting: 1078525.079	30	26-30
Northing 500752.0326	40	36-40
	55	51-55
NASP18-GW-DPT/K13	10	6-10
2/8/2006	20	16-20
Easting: 1078514.435	30	26-30
Northing 500656.4894	40	36-40
	55	51-55

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/K15	10	6-10
2/8/2006	20	16-20
Easting: 1078502.67	30	26-30
Northing 500554.6964	40	36-40
	55	51-55
NASP18-GW-DPT/K17	20	16-20
2/10/2006		
Easting: 1078489.944		
Northing 500454.1531		
NASP18-GW-DPT/K17.5	10	6-10
2/11/2006	20	16-20
Easting: 1078479.682	30	26-30
Northing 500435.0262	40	36-40
	55	51-55
NASP18-GW-DPT/K21	30	26-30
2/12/2006		
Easting: 1078462.302		
Northing 500256.0175		
NASP18-GW-DPT/K23	20	16-20
3/20/2006	30	26-30
Easting: 1078452.643		
Northing 500158.2359		
NASP18-GW-DPT/K36	15	11-15
3/18/2006	35	31-35
Easting: 1078367.221	55	51-55
Northing 499512.263	75	71-76
NASP18-GW-DPT/K39	15	11-15
3/20/2006	35	31-35
Easting: 1078350.146	55	51-55
Northing 499363.7795	75	71-76
NASP18-GW-DPT/K43	10	6-10
2/16/2006	15	11-15
Easting: 1078324.956	20	16-20
Northing 499158.8844	30	26-30
	35	31-35
	40	36-40
	55	51-55
NASP18-GW-DPT/K47	15	11-15
3/18/2006	35	31-35
Easting: 1078297.537	55	51-55
Northing 498964.4744	75	71-76

TABLE 2-1
DPT SAMPLE LOG
UST SITE 18
NAVAL AIR STATON PENSACOLA
PENSACOLA, FLORIDA

Sample ID, Sample Date Sample Location	Sample Depth (ft bls)	Sample Interval (ft bls)
NASP18-GW-DPT/M19	15	11-15
3/15/2006	35	31-35
Easting: 1078574.472	55	51-55
Northing 500342.096	75	71-76
NASP18-GW-DPT/M39	15	11-15
3/17/2006	35	31-35
Easting: 1078447.423	55	51-55
Northing 499351.8905	75	71-76
NASP18-GW-DPT/M43	15	11-15
3/18/2006	35	31-35
Easting: 1078423.086	55	51-55
Northing 499152.3034	75	71-76
NASP18-GW-DPT/M51	15	11-15
3/14/2006	35	31-35
Easting: 1078335.886	55	51-55
Northing 498758.8881	75	71-76
NASP18-GW-DPT/N15	10	6-10
2/11/2006	20	16-20
Easting: 1078614.728	30	26-30
Northing 500538.8285	40	36-40
	55	51-55
NASP18-GW-DPT/N19	30	26-30
2/12/2006		
Easting: 1078592.031		
Northing 500337.7184		
NASP18-GW-DPT/R15	15	11-15
3/15/2006	35	31-35
Easting: 1078873.3	55	51-55
Northing 500487.3088	75	71-76
NASP18-GW-DPT/R27	15	11-15
3/15/2006	35	31-35
Easting: 1078794.94	55	51-55
Northing 499915.1909	75	71-76
NASP18-GW-DPT/R41	15	11-15
3/15/2006	35	31-35
Easting: 1078710.891	55	51-55
Northing 499263.9536	75	71-76

Notes:
ft bls = feet below land surface

submitted to the on-site mobile laboratory for analysis. Following the groundwater sample collection, the DPT rods and groundwater sampler were retracted to the next shallower sampling interval and the process repeated. In general, samples were collected from three to five sample intervals in each DPT boring between 15 and 75 ft bls. Samples were analyzed by the mobile laboratory for BTEX, naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, and methyl tertiary-butyl ether (MTBE). The mobile laboratory analytical report is provided as Appendix C. A table listing the DPT locations and sample intervals is included as Table 2-1. The unique nomenclature was established for this sampling event as follows:

DPT Groundwater Sample Nomenclature:

1		2		2		3
NASP18	-	GW	-	DPTXXX	-	ZZZ

1. NASP= NAS Pensacola
   18 = UST Site 18
2. GW = Groundwater Sample
3. DPTXXX = DPT location.
4. ZZZ = Sample collection depth listed as a three digit number (e.g., 015 represents a groundwater sample collected from 15 ft bls)

Seven confirmation samples were collected for analysis at an off-site fixed-base laboratory to verify the results of the mobile laboratory analyses. The confirmation samples were analyzed for BTEX (USEPA Method 8260B) only. The laboratory analytical report is presented in Appendix D.

During the DPT investigation, 35 existing site monitoring wells were sampled and submitted to the on-site mobile laboratory. Groundwater samples from the site wells were analyzed for the same analytical parameters as the DPT groundwater samples. A list of the monitoring wells sampled during the DPT investigation is provided as Table 2-2 and their locations were shown on Figure 2-1.

2.2.3 Soil Lithologic Descriptions

Soil borings were installed to both confirm and further define the site lithology that had been described in the 1996 CAR for UST Site 18 (EAH, 1996). In addition, the confirmation of the soil lithology supported the decision of the locations of the new monitoring wells. Six soil borings were advanced with a rotosonic rig to determine site lithologic conditions during the week of March 20, 2006. Soil cores were obtained in continuous 20 ft samples from each soil boring. The soil borings were advanced continuously from ground surface to the underlying confining unit (approximately 82 ft bls) at each soil boring location. One

TABLE 2-2
EXISTING MONITORING WELLS SAMPLED DURING DPT INVESTIGATION
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

MONITORING WELLS SAMPLED		
NASP18GS01	NASP18GS07	NASP18GM22
NASP18GI01	NASP18GS08	NASP18GS22
NASP18GS02	NASP18GS09	NASP18GM24
NASP18GI02	NASP18GS10	NASP18GM25
NASP18GI03	NASP18GS11	NASP18GS26
NASP18GS04	NASP18GS12	NASP18GI27
NASP18GI04	NASP18GS13	NASP18GS28
NASP18GS05	NASP18GS17	NASP18GI29
NASP18GI05	NASP18GS18	NASP18GS30
NASP18GS06	NASP18GS19	NASP18GI31
NASP18GI06	NASP18GS21	
EXISTING WELLS NOT SAMPLED		
NASP18GS03		
NASP18GS14		
NASP18GS15		
NASP18GS16		
NASP18GS20		

boring was extended to 106 ft bls to investigate the confining unit thickness. The site geologist recorded the soil properties, including texture, color and soil moisture, for each soil boring and noted staining or odors. The soil boring locations are shown in Figure 2-1. Soil boring logs are provided in Appendix B. A cross section of the Site Lithology is shown in Figure 2-2.

2.2.4 Monitoring Well Installation

All monitoring wells were installed with a Rotosonic drill rig using 4.25-inch inside diameter (ID) rods creating a nominal borehole diameter of approximately 4.5 inches. All wells were constructed of 2-inch ID, flush-threaded, schedule 40 polyvinyl chloride (PVC) riser and a 10 ft, 0.010-inch slot well screen with a 6-inch point cap. Nine shallow (S) wells were installed to approximately 13 ft bls with a screen section that bracketed the water table. Thirteen intermediate (I) monitoring wells were installed to approximately 35 ft bls. Four deep (D) monitoring wells were installed to approximately 60 ft bls. One additional deep (DD) well was installed to approximately 75 ft bls.

The annulus around each shallow well was filled approximately 1 ft above the top of the screen with US Standard Sieve size 20/40 silica sand, followed by 0.5 ft bentonite. The annulus around each intermediate and deep well was filled approximately 2 to 3 ft above the top of the screen with US Standard Sieve size 20/40 silica sand, followed by 2 ft bentonite. The remainder of the annulus was grouted with a Portland/Bentonite mixture to the surface. Bentonite was added at a maximum of 10 percent dryweight. Each well was secured with a locking, watertight cap within a steel, 8-inch diameter steel manhole. The manhole was set in a 24-inch square concrete pad that was finished slightly above grade. Monitoring well construction details are summarized in Table 2-3 and the monitoring well completion diagrams are provided in Appendix B.

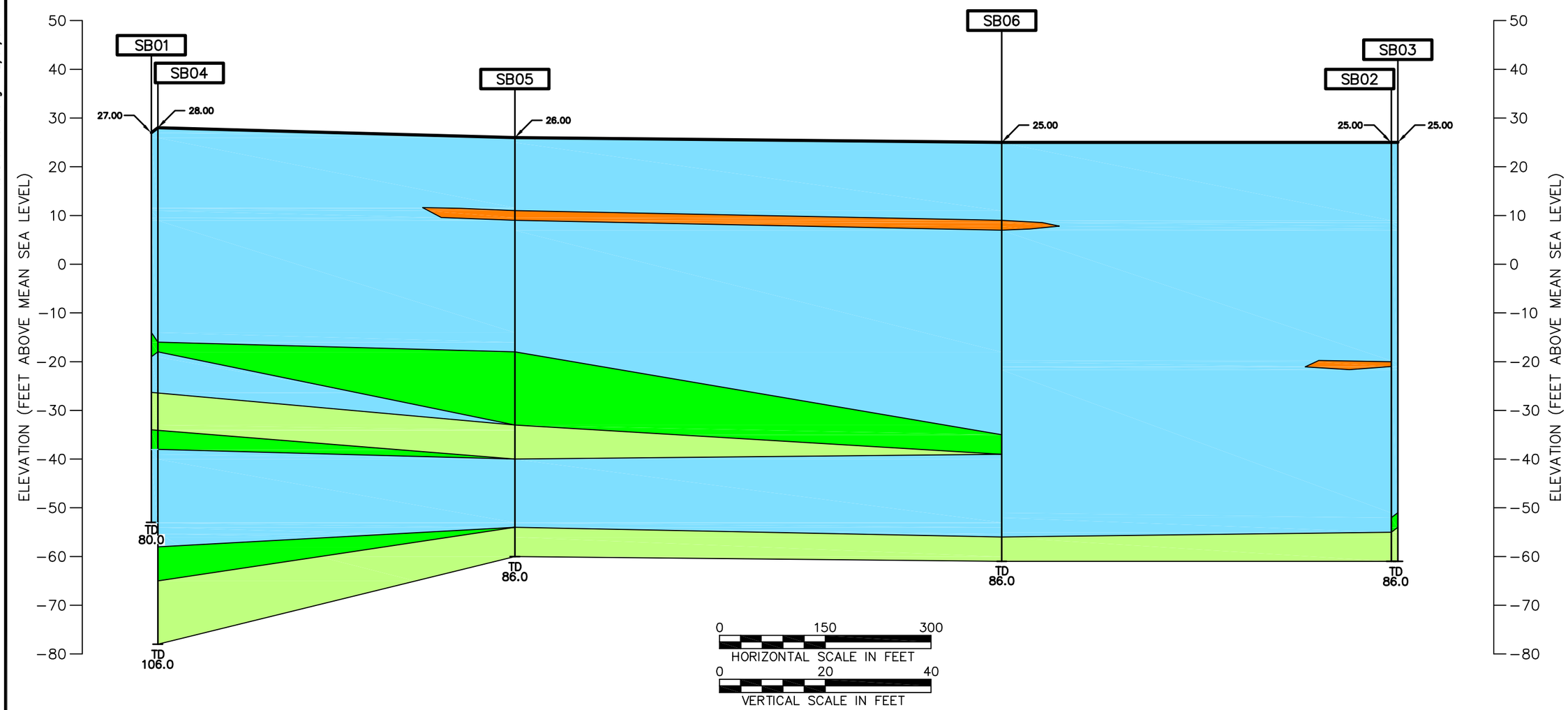
2.2.5 Monitoring Well Development

Each monitoring well was developed using a surge and pump technique. A well was considered developed once the pH, temperature, and conductivity of the extracted groundwater stabilized and the groundwater was visibly clear. Development water from the site was stored in labeled 55-gallon drums and later was disposed of appropriately.

2.2.6 Monitoring Well Sampling

Groundwater samples were collected from 65 site monitoring wells to evaluate groundwater quality in the shallow surficial aquifer at UST Site 18. The groundwater samples were collected using the low-flow

ACAD: 0140GX01.dwg 12/07/06 MF PIT



LEGEND:

BORING NUMBER — SB04
GROUND SURFACE ELEVATION — 28.00
GROUND SURFACE
LITHOLOGIC CONTACT
TOTAL DEPTH OF WELL OR BORING (FT BGS) — TD 106.0

SAND
CLAY
CLAYEY SAND
HARDPAN

DRAWN BY MF	DATE 10/25/06	SITE LITHOLOGY UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0140
CHECKED BY	DATE		OWNER NO.
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-2 / REV. 0

NAVFAC

FORM CADD NO. SDIV-BH.DWG - REV 2 - 6/19/06

TABLE 2-3
MONITORING WELL CONSTRUCTION DETAILS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Monitoring Well Designation	Total Depth (ft bls)	Screened Interval (ft bls)	Comments
18GS01	11.93	1.5 - 11.5	
18GI01	54.44	44.3 - 54.3	
18GS02	10.15	1.65 - 11.65	
18GI02	46.80	47.6 - 57.6	
18GS03	13.13	2.4 - 12.4	
18GI03	59.01	48.1 - 58.1	
18GS04	11.27	0.9 - 10.9	
18GI04	57.90	47.0 - 57.0	
18GS05	12.88	2.4 - 12.4	
18GI05	59.10	48.1 - 58.1	
18GS06	12.50	2.1 - 12.1	
18GI06	43.69	32.9 - 42.9	
18GS07	6.02	0.9 - 10.9	
18GS08	13.52	3.1 - 13.1	
18GS09	14.70	4.3 - 14.3	
18GS10	12.72	2.3 - 12.3	
18GS11	12.37	2.0 - 12.0	
18GS12	12.61	2.2 - 12.2	
18GS13	13.10	2.7 - 12.7	
18GS14	NA	NA	shallow, 10-ft screen
18GS15	NA	NA	shallow, 10-ft screen
18GS16	NA	NA	shallow, 10-ft screen
18GS17	12.75	NA	shallow, 10-ft screen
18GS18	19.65	NA	shallow, 10-ft screen
18GS19	NA	NA	shallow, 10-ft screen
18GS20	19.75	NA	flush mount, 10-ft screen
18GS21	19.67	NA	shallow, 10-ft screen
18GS22	17.72	NA	shallow, 10-ft screen
18GM22	12.81	NA	
18GM24	12.70	10.25 - 12.75	
18GM25	13.00	NA	shallow well, 10-ft scrren
18GS26	11.27	1.27 - 11.2	
18GI27	24.61	19.6 - 24.6	
18GS28	11.50	1.5 - 11.5	
18GI29	23.25	18.25 - 23.25	
18GS30	10.54	0.5 - 10.5	

TABLE 2-3
MONITORING WELL CONSTRUCTION DETAILS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Monitoring Well Designation	Total Depth (ft bls)	Screened Interval (ft bls)	Comments
18GI31	23.98	18.9 - 23.9	
18MW32S	12.94	2.94-12.94	flush-mount well
18MW33I	35.25	25.35-35.25	flush-mount well
18MW34D	59.53	49.53-59.53	flush-mount well
18MW35I	35.01	25.01-35.01	flush-mount well
NASP18MW36S	12.96	2.96-12.96	flush-mount well
NASP18MW37S	12.62	2.62 - 12.62	flush-mount well
NASP18MW38I	34.91	25.91-35.91	flush-mount well
NASP18MW39D	74.61	64.61-74.61	flush-mount well
NASP18MW40I	35.11	25.11-35.11	flush-mount well
NASP18MW41S	12.50	2.50-12.50	flush-mount well
NASP18MW42I	35.20	25.20-35.20	flush-mount well
NASP18MW43D	59.45	49.45-59.45	flush-mount well
NASP18MW44S	12.85	2.85-12.85	stick-up well
NASP18MW45I	35.05	25.05-35.05	stick-up well
NASP18MW46I	35.18	25.18-35.18	flush-mount well
NASP18MW47I	35.22	25.22-35.22	flush-mount well
NASP18MW48I	35.06	25.06-35.06	flush-mount well
NASP18MW49S	12.08	2.08-12.08	flush-mount well
NASP18MW50I	34.52	24.52-34.52	flush-mount well
NASP18MW51D	59.68	49.68-59.68	flush-mount well
NASP18MW52S	12.85	2.85-12..85	flush-mount well
NASP18MW53I	34.20	24.20-34.20	flush-mount well
NASP18MW54I	35.60	25.60-35.60	flush-mount well
NASP18MW55D	60.60	50.60-60.60	flush-mount well
NASP18MW56S	12.68	2.68-12.68	flush-mount well
NASP18MW57I	34.78	24.78-34.78	flush-mount well
NASP18MW58I	33.85	23.85-33-85	flush-mount well
NASP18MW59S	11.75	1.75-11.75	flush-mount well

Notes:
ft bls = feet below land surface
NA = not available, data unknown

quiescent purging and sampling method. New Teflon® tubing was installed in each well for groundwater sampling. Each monitoring well was purged using a peristaltic pump until the water quality parameters were stable over consecutive readings, in accordance with the FDEP Satandard Operating Procedure (SOP) DEP-SOP-001/01. Temperature, pH, specific conductance, dissolved oxygen concentration, and turbidity were recorded while the wells were purged. Groundwater sample log sheets are provided in Appendix B.

The groundwater samples collected from each monitoring well were analyzed by a fixed-based laboratory for VOCs (USEPA SW-846 Method 8260B), PAHs (USEPA SW-846 Method 8270C), EDB using USEPA Method 504.1, TRPH (FL-PRO), and lead (USEPA SW-846 Method 3010A/6010B). Select wells were also analyzed for natural attenuation parameters (iron, manganese, total organic carbon, alkalinity, anions, methane, ethane, and ethene). Groundwater laboratory analytical reports are presented in Appendix D.

2.3 AQUIFER CHARACTERIZATION

Data were collected during the site investigation to evaluate the direction of groundwater movement at the site. Groundwater elevations were determined from static water level measurements and a well top-of-casing elevation survey.

2.3.1 Surveying

Vertical and horizontal locations and elevations for each newly installed monitoring well were surveyed by a licensed professional surveyor. Horizontal locations were surveyed in feet relative to the Florida State Plane Coordinate System, Florida State Plane North, and was third order. Vertical datum were referenced to North American Vertical Datum 1988 with ground surface/well cover elevations accurate to 0.1 ft and top-of-casing elevations accurate to 0.01 ft. A reference point was marked on the north side of each monitoring well casing where the top-of-casing measurement was recorded. Survey information for the newly installed wells was transferred into the Environmental Geographic Information System (EGIS) system for NAS Pensacola. The survey data is included as Appendix E. DPT locations were recorded with a Trimble Pro XRS Global Positioning System (GPS) during DPT advancement.

2.3.2 Static Water Level Measurements

Depth-to-groundwater measurements were recorded in all site monitoring wells between 1500 and 1800 on April 24, 2006. Measurements were made from the top-of-casing reference points with an electronic water level indicator. An oil-water interface probe was also used at each monitoring well to determine if free product was present at the wells. Static water level measurements were made to the nearest 0.01-ft.

Groundwater elevations were calculated from the top-of-casing survey elevations and the static water level measurements. The depths to water measurements are included in Appendix B.

3.0 GEOLOGY AND HYDROGEOLOGY

Data collected during the supplemental assessment were used to re-evaluate geologic and hydrogeologic conditions that had been previously documented for this site. Lithology and stratigraphy were described for the surficial aquifer at the site and compared to historical records. Aquifer properties evaluated as part of the site assessment included depth to groundwater, groundwater elevations, and groundwater flow direction.

3.1 SITE STRATIGRAPHY

Interpretation of site lithology and stratigraphy was based on visual examination of six soil borings installed to depths between 80 and 106 ft bls. Data from the soil borings were compared against the lithology described in the 1996 CAR (EAH, 1996). A cross-section of the lithology is shown in Figure 2-2. The locations of the six borings were shown on Figure 2-1. Soil boring logs from the DPT investigation are included in Appendix B. A table providing the depths of lithology changes in the soil borings, locations, and total depth is included in Table 3-1.

3.1.1 Local Lithology and Stratigraphy

It was documented in the 1996 CAR (EAH, 1996) that the lower permeability zone encounter around 57 to 65 ft bls was a continuous confining unit. This unit was typically 8 to 17 ft thick across the base and was assumed to be similar under UST Site 18. The previous UST Site 18 borings had been terminated before they breached this confining unit and therefore its presence and thickness was never verified. The typical lithology encountered by TtNUS was similar to that described in the 1996 CAR, but with one significant deviation. It was determined that the lower permeability zone encountered in the Site 18 area at approximately 60 ft bls was only 2 to 4 ft thick and was not continuous across the entire site. Sandy clay to clayey sand beds were found within this 2- to 4-ft thick clay layer. This lower permeability zone was not present at the southern portion of the site in borings SB02 and SB03. South of soil boring SB06 (before SB02 and SB03 are reached) the low permeability clay disappears. In this area, gray to brown medium sands with silts exist from land surface down to the confining unit at approximately 82 ft bls. A cross-section of the lithology of Site 18 is depicted in Figure 2-2.

The deeper potential confining unit for this site begins between 82 and 85 ft bls and consists of a hard plastic blue-gray clay. Borings SB02, SB03, SB05, and SB06 were terminated at 86 ft bls and the bottom 2 to 4 ft of each boring consisted of the clay described above. Boring SB01 was terminated at 80 ft bls and contained sandy clay in the bottom foot of the boring. To confirm the thickness of the confining unit, boring

TABLE 3-1
SOIL BORING SUMMARY
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Soil Boring	Grid Location	Total Depth (ft)	Depth to first clay unit (ft bls)	Depth to second clay unit (ft bls)
SB-01	C-4	80	62	NS
SB-02	A-43	86	NP	81
SB-03	L-43	86	NP	80
SB-04	L-4	106	60	93
SB-05	G-16	86	59	82
SB-06	G-31	86	61	81

NP = Not Present
NS = Not Present Within Depth of Boring

SB04 was terminated at 106 ft bls. The hard plastic clay was encountered from approximately 85 ft bls to the borehole termination depth of 106 ft bls.

3.2 SITE HYDROGEOLOGY

Hydrogeologic data were collected during the site assessment to evaluate movement of groundwater in the shallow surficial aquifer at the site. Depth to groundwater and groundwater elevation were used to determine the groundwater flow direction at the site.

3.2.1 Static Water Level and Groundwater Elevations

Static water level measurement data were recorded from site monitoring wells on April 24, 2006 (Table 3-2). The water level measurement data and the relative elevations from the well top-of-casing survey were used to determine relative groundwater elevations at each well.

The on-site groundwater vertical gradient was evaluated by reviewing data from the following monitoring well pairs: NASP18-MW41S and NASP18-MW43D; and NASP18-MW49S and NASP18-MW51D. The relative groundwater elevation in deep well NASP18-MW43D was 5.6 ft lower than in the adjacent shallow well NASP18-41S. The vertical distance from the bottom of the screened interval of NASP18-41S (3 to 13 ft BTOC) to the bottom of the screened interval of NASP18-MW43D (50 to 60 ft BTOC) is 46.95 ft. The difference in groundwater elevation and screened interval indicate a downward vertical gradient of approximately 0.12 feet/foot.

The relative groundwater elevation in deep well NASP18-MW51D was 4.28 ft lower than in the adjacent shallow well NASP18-MW49S. The vertical distance from the bottom of the screened interval of NASP18-MW49S (3 to 13 ft BTOC) to the bottom of the screened interval of NASP18-MW51D [50 to 60 ft below top-of-casing (BTOC)] is 47 ft. The difference in groundwater elevation and screened interval indicate a downward vertical gradient of approximately 0.09 feet/foot.

VERTICAL GRADIENT CALCULATION

	MW41S	**MW43D**	**MW49S**	**MW51D**
Relative Groundwater Elevation (ft)	23.71	18.11	21.10	16.82
Depth to Well (ft BTOC)	12.50	59.45	12.08	59.68
Vertical Distance (ft)	46.95		47.60	
Vertical Gradient (feet/foot)	**0.12**		**0.09**	

TABLE 3-2
GROUNDWATER ELEVATION SUMMARY
UST SITE 18 - APRIL 24, 2006
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Well ID	TOC Elevation (ft)	Depth of Well (ft BTOC)	Screened Interval (ft BTOC)	Depth to Water (ft BTOC)	Depth to Free Product (ft BTOC)	Free Product Thickness (ft)	Water Level Elevation (ft)
NASP18-GS01	26.65	11.93	1.5 - 11.5	3.03	ND	NA	23.62
NASP18-GS02	26.83	10.13	1.65 - 11.65	3.12	ND	NA	23.71
NASP18-GS03	27.54	10.33	2.4 - 12.4	4.25	ND	NA	23.29
NASP18-GS04	27.2	10.97	0.9 - 10.9	4.37	ND	NA	22.83
NASP18-GS05	27.34	12.85	2.4 - 12.4	4.57	ND	NA	22.77
NASP18-GS06	27.31	12.06	2.1 - 12.1	5.44	ND	NA	21.87
NASP18-GS07	28.53	11.30	0.9 - 10.9	4.70	ND	NA	23.83
NASP18-GS08	27.99	13.42	3.1 - 13.1	5.14	ND	NA	22.85
NASP18-GS09	28.12	14.71	4.3 - 14.3	6.30	ND	NA	21.82
NASP18-GS10	27.76	12.68	2.3 - 12.3	4.93	ND	NA	22.83
NASP18-GS11	27.92	12.34	2.0 - 12.0	5.08	ND	NA	22.84
NASP18-GS12	27.69	12.55	2.2 - 12.2	4.86	ND	NA	22.83
NASP18-GS13	27.91	13.08	2.7 - 12.7	5.26	ND	NA	22.65
NASP18-GS14	27.53	13.39	UNK	6.20	ND	NA	21.33
NASP18-GS15	27.77	19.60	UNK	14.05	ND	NA	13.72
NASP18-GS16	25.34	17.27	UNK	15.65	ND	NA	9.69
NASP18-GS17	25.04	12.73	UNK	3.66	ND	NA	21.38
NASP18-GS18	26.17	19.08	UNK	3.57	ND	NA	22.60
NASP18-GS19	25.29	UNK	UNK	UNK	ND	NA	NA
NASP18-GS20	25.05	19.69	UNK	3.32	ND	NA	21.73
NASP18-GS21	25.39	19.66	UNK	3.00	ND	NA	22.39
NASP18-GS22	26.13	17.10	UNK	4.42	ND	NA	21.71
NASP18-GM22	UNK	12.81	UNK	6.82	ND	NA	NA
NASP18-GM24	24.68	12.65	10.25 - 12.75	3.81	ND	NA	20.87
NASP18-GM25	30.33	6.65	UNK	12.79	ND	NA	17.54
NASP18-GS26	UNK	8.39	1.27 - 11.2	4.27	3.58	0.69	NA
NASP18-GS28	UNK	11.55	1.5 - 11.5	4.65	ND	NA	NA
NASP18-GS30	UNK	10.64	0.5 - 10.5	4.19	ND	NA	NA
NASP18-MW32S	27.54	12.94	3 - 13	5.21	ND	NA	22.33
NASP18-MW36S	25.93	12.96	3 - 13	3.50	ND	NA	22.43
NASP18-MW37S	26.46	12.62	3 - 13	3.41	ND	NA	23.05
NASP18-MW41S	28.50	12.50	3 - 13	4.79	ND	NA	23.71
NASP18-MW44S	27.22	12.85	3 - 13	3.47	ND	NA	23.75
NASP18-MW49S	26.50	12.08	3 - 13	5.40	ND	NA	21.10

TABLE 3-2
GROUNDWATER ELEVATION SUMMARY
UST SITE 18 - APRIL 24, 2006
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Well ID	TOC Elevation (ft)	Depth of Well (ft BTOC)	Screened Interval (ft BTOC)	Depth to Water (ft BTOC)	Depth to Free Product (ft BTOC)	Free Product Thickness (ft)	Water Level Elevation (ft)
NASP18-MW52S	25.90	12.85	3 - 13	5.41	ND	NA	20.49
NASP18-MW56S	25.31	12.68	3 - 13	3.86	ND	NA	21.45
NASP18-MW59S	24.20	11.75	3 - 13	3.88	ND	NA	20.32
NASP18-GI01	UNK	54.11	44.3 - 54.3	7.57	ND	NA	NA
NASP18-GI02	UNK	53.15	47.6 - 57.6	8.66	ND	NA	NA
NASP18-GI03	27.44	58.41	48.1 - 58.1	9.51	ND	NA	17.93
NASP18-GI04	UNK	57.35	47.0 - 57.0	9.61	ND	NA	NA
NASP18-GI05	UNK	58.42	48.1 - 58.1	10.30	ND	NA	NA
NASP18-GI06	28.08	43.29	32.9 - 42.9	9.68	ND	NA	18.40
NASP18-GI27	UNK	24.65	19.6 - 24.6	8.63	ND	NA	NA
NASP18-GI29	UNK	23.22	18.25 - 23.25	9.17	ND	NA	NA
NASP18-GI31	UNK	24.00	18.9 - 23.9	7.23	ND	NA	NA
NASP18-MW33I	27.63	35.25	25 - 35	9.86	ND	NA	17.77
NASP18-MW35I	27.47	35.01	25 - 35	8.94	ND	NA	18.53
NASP18-MW38I	25.91	34.91	25 - 35	7.48	ND	NA	18.43
NASP18-MW40I	24.77	35.11	25 - 35	6.45	ND	NA	18.32
NASP18-MW42I	28.53	35.20	25 - 35	10.25	ND	NA	18.28
NASP18-MW45I	26.93	35.05	25 - 35	6.63	ND	NA	20.30
NASP18-MW46I	27.36	35.18	25 - 35	9.60	ND	NA	17.76
NASP18-MW47I	24.59	35.22	25 - 35	6.66	ND	NA	17.93
NASP18-MW48I	24.68	35.06	25 - 35	6.78	ND	NA	17.90
MW50I	26.48	34.52	25 - 35	8.35	ND	NA	18.13
MW53I	25.93	34.20	25 - 35	7.24	ND	NA	18.69
MW54I	27.43	35.60	25 - 35	13.98	ND	NA	13.45
MW57I	25.32	34.78	25 - 35	7.34	ND	NA	17.98
MW58I	25.07	33.85	25 - 35	10.68	ND	NA	14.39
MW34D	27.58	59.53	50 - 60	9.99	ND	NA	17.59
MW39DD	25.27	74.61	65 - 75	8.64	ND	NA	16.63
MW43D	28.57	59.45	50 - 60	10.46	ND	NA	18.11
MW51D	26.61	59.68	50 - 60	9.79	ND	NA	16.82
MW55D	27.40	60.60	50 - 60	13.56	ND	NA	13.84

Notes:
NA = Not applicable
ND = Not detected
UNK = Unknown
ft = feet
BTOC = below top of casing

3.2.2 Groundwater Flow Direction

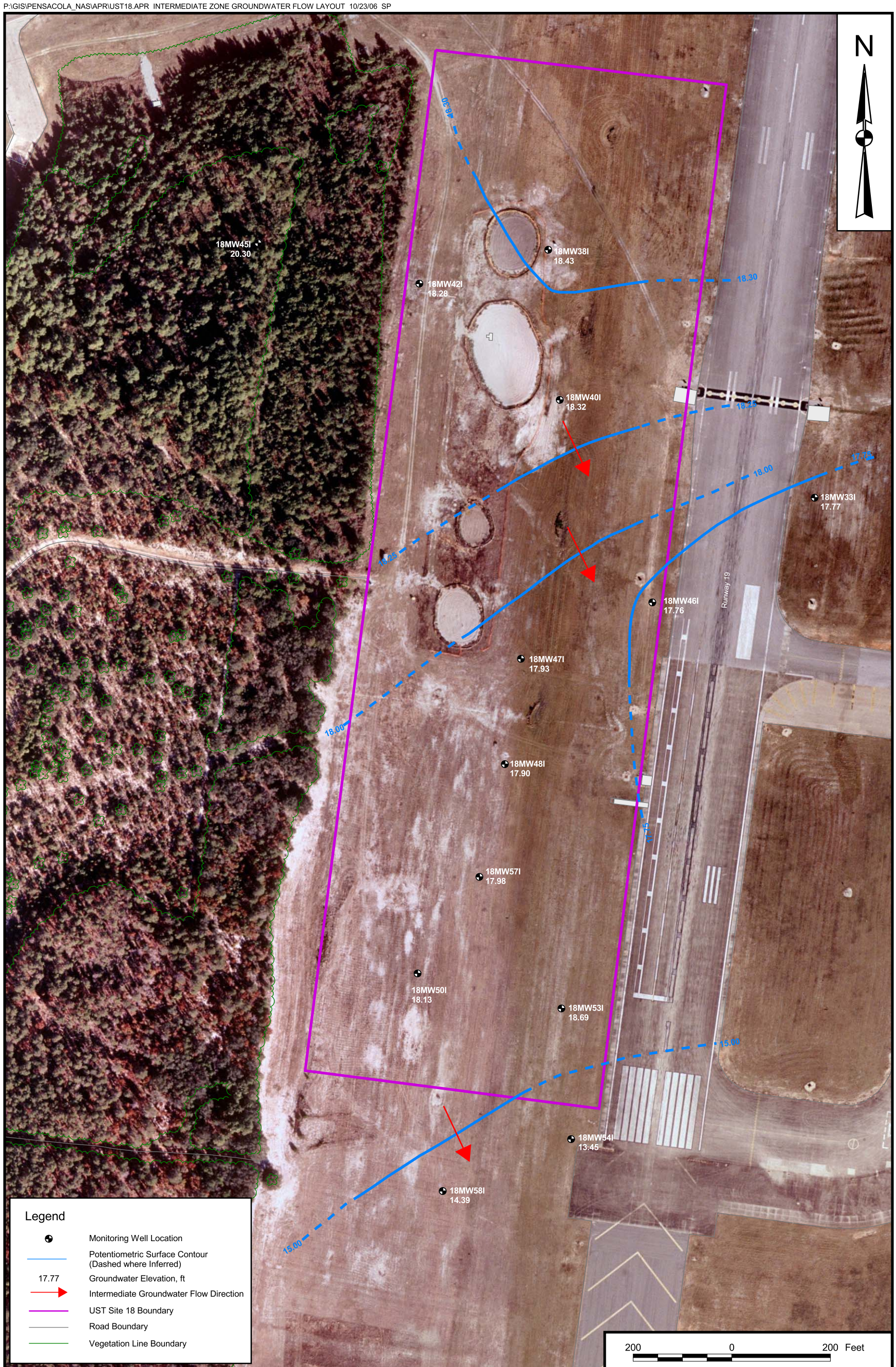
To evaluate the direction of groundwater flow at the site, the groundwater elevations from the shallow site monitoring wells were plotted on a site map. Groundwater flow direction for the shallow, intermediate, and deep aquifers is depicted by the large red arrows (Figures 3-1, 3-2, and 3-3, respectively). These arrows represent perpendicular lines to the groundwater elevation isocontours. Interpretation of data from the site gauging event indicates that groundwater flow in the shallow (3 to 20 ft bls) screened interval is generally to the southeast for the site. The northern end of the site has a more easterly flow direction but gradually changes into a southeastern direction toward the southern end of the site. Monitoring wells with screen intervals between 20 and 40 ft bls are considered to be intermediate depth. Deep wells have screens deeper than 40 ft bls. Groundwater flow in the intermediate and deep wells exhibited a similar southeastern flow direction as shallow groundwater. Groundwater flow direction is towards the Gulf of Mexico which is approximately 1/2 mile southeast of the site.

The southeastern groundwater flow direction is similar to what has been previously reported for this site. Historical Figure 2-2 (CH2MHILL, 2003) and historical Figure 2-1 (TtNUS, 2005) (both provided in Appendix A) show a general southeastern groundwater flow direction for UST Site 18. Both of these figures were created as part of quarterly sampling events that were performed at the site.

P:\GIS\PENSACOLA_NAS\APR\UST18.APR UPDATED SHALLOW ZONE GROUNDWATER FLOW LAYOUT 10/18/06 SP

DRAWN BY S. PAXTON	DATE 8/31/06	SHALLOW ZONE - GROUNDWATER FLOW UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 10/18/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 3 - 1 / REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR INTERMEDIATE ZONE GROUNDWATER FLOW LAYOUT 10/23/06 SP



DRAWN BY	DATE
S. PAXTON	10/18/06
CHECKED BY	DATE
K. WIMBLE	10/23/06
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

NAVFAC

INTERMEDIATE ZONE - GROUNDWATER FLOW

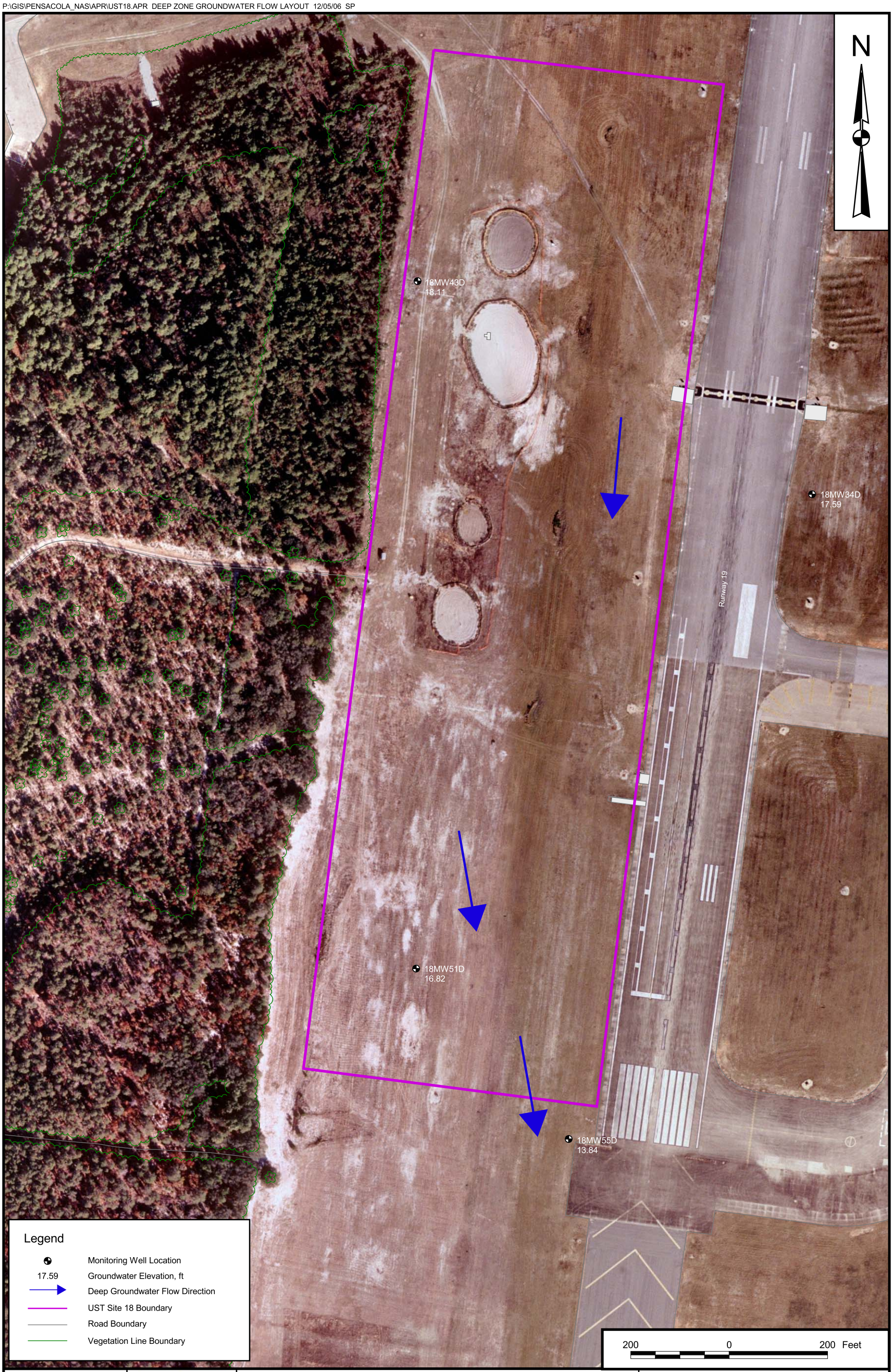
UST SITE 18

NAS PENSACOLA

PENSACOLA, FLORIDA

CONTRACT NUMBER	
CTO 0005	
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
DRAWING NO.	REV
FIGURE 3 - 2	0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR DEEP ZONE GROUNDWATER FLOW LAYOUT 12/05/06 SP



DRAWN BY S. PAXTON	DATE 10/18/06	DEEP ZONE - GROUNDWATER FLOW UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 12/05/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 3 - 3 / REV 0

4.0 SITE ASSESSMENT RESULTS

Groundwater samples were collected during the site assessment to evaluate the extent of petroleum impact resulting from past fire fighting training activities at Site 18. The results of groundwater analyses were compared to the GCTLs established in Chapter 62-777, FAC.

4.1.1 DPT Groundwater Screening Results – Mobile Laboratory

DPT groundwater samples were collected between 10 ft bls and 75 ft bls. In general, DPT groundwater samples were collected at 15 ft (shallow), 35 ft (intermediate), 55 ft (deep), and 75 ft (deep) bls from each DPT sample location. The groundwater samples were analyzed for BTEX, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene by the mobile laboratory. The mobile laboratory results for the 85 DPT locations and the 32 site monitoring wells are summarized in Table 4-1 and Table 4-2, respectively. The mobile laboratory analytical report is included as Appendix C.

During site assessment, the mobile laboratory detected exceedances of GCTLS at DPT groundwater samples in the shallow, intermediate, and deep sample intervals. The exceedances were generally distributed equally throughout all three sample intervals. Benzene was detected in 57 groundwater samples at concentrations exceeding the FDEP GCTL of 1 micrograms per liter (µg/L). The highest level of benzene was detected at shallow well NASP18-GS01 at a concentration of 470 µg/L. Total xylenes were detected in 42 groundwater samples at concentrations exceeding the FDEP GCTL of 20 µg/L. The highest level of total xylenes was detected in the deep aquifer at DPT location E37 at a depth of 55 ft bls (E37-55) at a concentration of 3,400 µg/L. 1-methylnaphthalene was detected in 23 groundwater samples at concentrations exceeding the FDEP GCTL of 28 µg/L. The highest level of 1-methylnapththalene was detected in the deep aquifer at DPT location C37 at a depth of 55 ft bls (C37-55) at a concentration of 820 µg/L. 2-methylnaphthalene was detected in 24 groundwater samples at concentrations exceeding the FDEP GCTL of 28 µg/L. The highest level of 2-methylnapththalene was detected in the deep aquifer at DPT location C37 at a depth of 55 ft bls at a concentration of 1,100 µg/L. Ethylbenzene was detected in 14 groundwater samples at concentrations exceeding the FDEP GCTL of 30 µg/L. The highest level of ethylbenzene was detected in the deep aquifer at DPT location E37 at a depth of 55 ft bls at a concentration of 240 µg/L. Naphthalene was detected in 21 groundwater samples at concentrations exceeding the FDEP GCTL of 14 µg/L. The highest level of naphthalene was detected in the deep aquifer at DPT location E37 at a depth of 55 ft bls at a concentration of 510 µg/L. Toluene was detected in five groundwater samples at concentrations exceeding the FDEP GCTL of 40 µg/L. The highest level of toluene was detected in the shallow aquifer at DPT location E37 at a depth of 10 ft bls at a concentration of 450 µg/L.

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 11

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/101-30	NASP18GW-DPT/103-75	NASP18GW-DPT/104-35	NASP18GW-DPT/104-75	NASP18GW-DPT/105-35	NASP18GW-DPT/105-75
Sample Date			02/09/06	03/13/06	03/13/06	03/13/06	03/13/06	03/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	2 U	1 U	1 U	**1.4**	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1.2	1 U
M+P-XYLENES	NC	NC	6.5	2 U	2 U	2 U	2.4	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	2	1 U	1 U	1 U	1.2	1 U
TOLUENE	40	400	1 U	1.2	1.1	1.3	3.9	1.3
XYLENES, TOTAL	20	200	8.5	ND	ND	ND	3.6	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/108-15	NASP18GW-DPT/108-35	NASP18GW-DPT/108-55	NASP18GW-DPT/109-15	NASP18GW-DPT/109-35	NASP18GW-DPT/109-55
Sample Date			03/16/06	03/16/06	03/16/06	03/16/06	03/16/06	03/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**10.4**	**14.7**	**2.5**	**1.4**	**31.9**	**10.3**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	28.2	1 U
M+P-XYLENES	NC	NC	12.3	15.4	2 U	3.6	35.6	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	3.5	4.7	1 U	1 U	7.9 U	1 U
TOLUENE	40	400	1.4	1.4	1 U	1 U	1.7	1
XYLENES, TOTAL	20	200	15.8	**20.1**	ND	3.6	**35.6**	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/110-35	NASP18GW-DPT/113-30	NASP18GW-DPT/A11-10	NASP18GW-DPT/A11-20	NASP18GW-DPT/A11-30	NASP18GW-DPT/A11-40
Sample Date			03/17/06	03/22/06	02/07/06	02/07/06	02/07/06	02/07/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	6.8	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5.9	5 U
BENZENE	1	100	1 U	**2.7**	**1.9**	**2.9**	**8.3**	**14**
ETHYLBENZENE	30	300	1 U	3.2	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	4.1	6.3	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.3	2.9	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	4.5	1 U	1 U	3.8	1 U
XYLENES, TOTAL	20	200	5.4	9.2	ND	ND	ND	ND

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A12-30	NASP18GW-DPT/A19-35	NASP18GW-DPT/A19-75	NASP18GW-DPT/A37-30	NASP18GW-DPT/A37-40	NASP18GW-DPT/A37-55
Sample Date			02/07/06	03/16/06	03/16/06	02/16/06	02/16/06	02/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.8**	1 U	**2.2**	**1.9**	**2.5**	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	3.9	2 U	2 U	2 U	2	2.2
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1.1	2	1.6	1.8	1.2
XYLENES, TOTAL	20	200	4.9	ND	ND	ND	2	2.2

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/B13 - 35	NASP18GW-DPT/B13 - 55	NASP18GW-DPT/B13-35	NASP18GW-DPT/B13-55	NASP18GW-DPT/B35-35	NASP18GW-DPT/B35-55
Sample Date			03/22/06	03/22/06	03/22/06	03/22/06	03/21/06	03/21/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.8**	**1.7**	**1.8**	**1.7**	1 U	**1.3**
ETHYLBENZENE	30	300	2.1	2.5	2.1	2.5	1 U	1 U
M+P-XYLENES	NC	NC	13.5	16.6	13.5	16.6	2 U	2.2
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	5	6	5	6	1 U	1
TOLUENE	40	400	1.3	1.2	1.3	1.2	1.1	1.7
XYLENES, TOTAL	20	200	18.5	**22.6**	18.5	**22.6**	ND	3.2

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/B9-10	NASP18GW-DPT/B9-20	NASP18GW-DPT/B9-30	NASP18GW-DPT/B9-55	NASP18GW-DPT/C15-55	NASP18GW-DPT/C19-10
Sample Date			02/09/06	02/09/06	02/09/06	02/09/06	02/09/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	**66**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	**74**
BENZENE	1	100	1 U	1 U	1 U	**4.5**	1 U	5 U
ETHYLBENZENE	30	300	1 U	1 U	2.8	1 U	1 U	**120**
M+P-XYLENES	NC	NC	2.3	16.9	101	2 U	2.4	1800
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	25 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	**93**
O-XYLENE	NC	NC	1 U	2.5	2.4	1 U	1 U	940
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	**110**
XYLENES, TOTAL	20	200	2.3	19.4	**103.4**	ND	2.4	**2740**

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	NASP18GW-DPT/C19-30	NASP18GW-DPT/C19-40	NASP18GW-DPT/C19-55	NASP18GW-DPT/C22-15	NASP18GW-DPT/C22-35	NASP18GW-DPT/C22-55
Sample Date			02/12/06	02/12/06	02/12/06	03/22/06	03/22/06	03/22/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**2.6**	1 U	**1.1**	1 U	1 U	1 U
ETHYLBENZENE	30	300	1.5	1 U	2.3	1	1 U	1 U
M+P-XYLENES	NC	NC	5.9	4.6	6.6	2.2	2 U	2.1
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	2.5	1.2	2.4	1 U	1 U	1 U
TOLUENE	40	400	5.2	1.5	3.8	1.3	1.3	1
XYLENES, TOTAL	20	200	8.4	5.8	9	2.2	ND	2.1

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C24-10	NASP18GW-DPT/C24-30	NASP18GW-DPT/C24-40	NASP18GW-DPT/C24-55	NASP18GW-DPT/C37-10	NASP18GW-DPT/C37-20
Sample Date			02/16/06	02/16/06	02/16/06	02/16/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	**69**	5.2
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	**79**	6.8
BENZENE	1	100	1 U	1 U	**1.6**	**6.3**	2 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	25	1 U
M+P-XYLENES	NC	NC	2.6	2 U	2 U	4.7	620	19.8
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	10 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	**54**	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1.3	110	3.3
TOLUENE	40	400	1 U	1.2	1.9	1.6	2 U	1 U
XYLENES, TOTAL	20	200	2.6	ND	ND	6	**730**	**23.1**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C37-30	NASP18GW-DPT/C37-40	NASP18GW-DPT/C37-55	NASP18GW-DPT/C43-30	NASP18GW-DPT/C43-40	NASP18GW-DPT/C43-55
Sample Date			02/15/06	02/15/06	02/15/06	02/16/06	02/16/06	02/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	20.1	**520**	**820**	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	22.9	**690**	**1100**	5 U	5 U	5 U
BENZENE	1	100	1 U	20 U	20 U	**1.4**	**1.5**	**8**
ETHYLBENZENE	30	300	3.8	**110**	**100**	1 U	1 U	2.3
M+P-XYLENES	NC	NC	76	2500	2400	2.3	3.8	13.2
METHYL TERT-BUTYL ETHER	20	200	5 U	100 U	100 U	5 U	5 U	5 U
NAPHTHALENE	14	140	8.6	**300**	**360**	5 U	5 U	5 U
O-XYLENE	NC	NC	13.4	460	420	1 U	1 U	2.3
TOLUENE	40	400	2	20 U	20 U	1.4	2	3.8
XYLENES, TOTAL	20	200	**89.4**	**2960**	**2820**	2.3	3.8	15.5

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C5-10	NASP18GW-DPT/C5-30	NASP18GW-DPT/C5-35	NASP18GW-DPT/C5-40	NASP18GW-DPT/C5-55	NASP18GW-DPT/C5-55
Sample Date			02/12/06	02/12/06	02/12/06	02/12/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	12.7	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	10.1	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1	**3.8**	**1.1**
ETHYLBENZENE	30	300	1.3	1 U	1 U	1 U	2.9	1 U
M+P-XYLENES	NC	NC	21.2	2.6	2 U	2.4	8.4	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	6.6	1 U	1 U	1 U	3	1 U
TOLUENE	40	400	1.9	1.1	1	2	3.3	1.2
XYLENES, TOTAL	20	200	**27.8**	2.6	ND	2.4	11.4	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/D10 - 15	NASP18GW-DPT/D10 - 35	NASP18GW-DPT/D10 - 55	NASP18GW-DPT/D10 - 75	NASP18GW-DPT/D29-15	NASP18GW-DPT/E17-15
Sample Date			03/22/06	03/22/06	03/22/06	03/22/06	03/19/06	03/19/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	10.1	**37.5**	24.8	**65.1**	7.7	11.8
2-METHYLNAPHTHALENE	28	280	12.2	**45.3**	**28.8**	**76.4**	7.2	9.8
BENZENE	1	100	**1.7**	**25.3**	**1.5**	**9.8**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1.2	1 U	2.4	1 U	3.5
M+P-XYLENES	NC	NC	12	9.4	6.6	23.8	2.7	26.8
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	9.9	6.6	**21.8**	5 U	5.4
O-XYLENE	NC	NC	5	2	1.5	5.5	1.2	13
TOLUENE	40	400	1 U	1.4	1 U	3.5	1 U	1.4
XYLENES, TOTAL	20	200	17	11.4	8.1	**29.3**	3.9	**39.8**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E17-35	NASP18GW-DPT/E17-55	NASP18GW-DPT/E34-55	NASP18GW-DPT/E37-10	NASP18GW-DPT/E37-20	NASP18GW-DPT/E37-30
Sample Date			03/19/06	03/19/06	02/15/06	02/14/06	02/14/06	02/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**190**	**120**	5 U	**240**	**170**	**160**
2-METHYLNAPHTHALENE	28	280	**200**	**130**	5 U	**280**	**220**	**210**
BENZENE	1	100	20 U	**3.8**	1 U	10 U	10 U	10 U
ETHYLBENZENE	30	300	23	**35.7**	1 U	**160**	**54**	**57**
M+P-XYLENES	NC	NC	170	160	2.7	1600	570	620
METHYL TERT-BUTYL ETHER	20	200	100 U	5 U	5 U	50 U	50 U	50 U
NAPHTHALENE	14	140	100 U	**52.4**	5 U	**350**	**130**	**120**
O-XYLENE	NC	NC	86	81	1	660	200	210
TOLUENE	40	400	20 U	6.7	1.6	**450**	**59**	**69**
XYLENES, TOTAL	20	200	**256**	**241**	3.7	**2260**	**770**	**830**

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E37-40	NASP18GW-DPT/E37-55	NASP18GW-DPT/E40-10	NASP18GW-DPT/E40-20	NASP18GW-DPT/E40-30	NASP18GW-DPT/E40-40
Sample Date			02/14/06	02/14/06	02/15/06	02/15/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**220**	**570**	**92**	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**300**	**740**	**110**	6.2	5 U	5.6
BENZENE	1	100	10 U	10 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	**72**	**240**	**75**	2.8	1 U	1.4
M+P-XYLENES	NC	NC	770	2500 L	1300	48.4	11.1	23.8
METHYL TERT-BUTYL ETHER	20	200	50 U	50 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**160**	**510**	**150**	5 U	5 U	5 U
O-XYLENE	NC	NC	260	900	370	11.8	2.7	6.1
TOLUENE	40	400	**93**	**330**	5.7	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**1030**	**3400 J**	**1670**	**60.2**	13.8	**29.9**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E40-55	NASP18GW-DPT/E44-55	NASP18GW-DPT/F04-35	NASP18GW-DPT/F04-75	NASP18GW-DPT/F19-10	NASP18GW-DPT/F19-20
Sample Date			02/15/06	02/15/06	03/15/06	03/15/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	24.1	5.5	5 U	5 U	**110**	25 U
2-METHYLNAPHTHALENE	28	280	**28.6**	5 U	5 U	5 U	**120**	25 U
BENZENE	1	100	1 U	1 U	1 U	1 U	20 U	5 U
ETHYLBENZENE	30	300	9	1 U	1 U	1 U	**120**	5.4
M+P-XYLENES	NC	NC	148	2 U	2 U	2 U	720	33
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	100 U	25 U
NAPHTHALENE	14	140	**17.3**	5 U	5 U	5 U	**150**	25 U
O-XYLENE	NC	NC	39	1	1 U	1 U	32	14
TOLUENE	40	400	1 U	1.6	1.5	1	20 U	5 U
XYLENES, TOTAL	20	200	**187**	1	ND	ND	**752**	**47**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/F19-30	NASP18GW-DPT/F19-40	NASP18GW-DPT/F19-55	NASP18GW-DPT/F21-10	NASP18GW-DPT/F21-20	NASP18GW-DPT/F21-30
Sample Date			02/12/06	02/12/06	02/12/06	02/12/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	25 U	25 U	**87**	8.8	5 U	5 U
2-METHYLNAPHTHALENE	28	280	25 U	25 U	**95**	7	5 U	5 U
BENZENE	1	100	5 U	5 U	5 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	5 U	5 U	20	2	1 U	1 U
M+P-XYLENES	NC	NC	18	30	230	9.9	2.7	3.2
METHYL TERT-BUTYL ETHER	20	200	25 U	25 U	25 U	5 U	5 U	5 U
NAPHTHALENE	14	140	25 U	25 U	**61**	5 U	5 U	5 U
O-XYLENE	NC	NC	6.8	11	66	4.1	1 U	1.1
TOLUENE	40	400	5 U	5 U	6.8	1 U	1 U	1.6
XYLENES, TOTAL	20	200	**24.8**	**41**	**296**	14	2.7	4.3

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/F21-40	NASP18GW-DPT/F21-55	NASP18GW-DPT/F28-35	NASP18GW-DPT/F28-55	NASP18GW-DPT/F42-15	NASP18GW-DPT/F42-75
Sample Date			02/12/06	02/12/06	03/21/06	03/21/06	03/20/06	03/20/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	**80**	**59**	9.2	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	**100**	**72**	10.6	5 U
BENZENE	1	100	1 U	1 U	10 U	10 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	10	10	13.9	1 U
M+P-XYLENES	NC	NC	5.8	3.4	85	47	163	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	50 U	50 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	50 U			5 U
O-XYLENE	NC	NC	1.6	1.2	34	17	41.8	1 U
TOLUENE	40	400	1.6	1 U	10 U	10 U	1	1.2
XYLENES, TOTAL	20	200	7.4	4.6	**119**	**64**	**204.8**	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G24-10	NASP18GW-DPT/G24-20	NASP18GW-DPT/G24-30	NASP18GW-DPT/G24-40	NASP18GW-DPT/G24-55	NASP18GW-DPT/G27-30
Sample Date			02/14/06	02/14/06	02/14/06	02/14/06	02/14/06	02/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**49.4**	5 U	5 U	5 U	5 U	7.5
2-METHYLNAPHTHALENE	28	280	**57.5**	5 U	5 U	5 U	5 U	6.8
BENZENE	1	100	**8.8**	1 U	1	**1.3**	1 U	**2**
ETHYLBENZENE	30	300	20.1	4.1	1	1.4	1 U	1.2
M+P-XYLENES	NC	NC	190	21.8	7.5	10.4	4.8	4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140		5 U	5 U	5.6	5 U	5 U
O-XYLENE	NC	NC	2	9.1	1	1.3	1 U	1.6
TOLUENE	40	400	1.3	1.2	1.5	1.6	1.3	3.2
XYLENES, TOTAL	20	200	**192**	**30.9**	8.5	11.7	4.8	5.6

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G27-55	NASP18GW-DPT/G30-10	NASP18GW-DPT/G30-55	NASP18GW-DPT/G35-10	NASP18GW-DPT/G35-20	NASP18GW-DPT/G35-30
Sample Date			02/14/06	02/14/06	02/14/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	18.3	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5.1
BENZENE	1	100	**1.2**	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	3.5	2 U	3.3	3.8	4	4.4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.1	1 U	1 U	1.1	1.1	1.2
TOLUENE	40	400	1.1	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	4.6	ND	3.3	4.9	5.1	5.6

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DU02-02132006	NASP18GW-DPT/G35-40	NASP18GW-DPT/G35-55	NASP18GW-DPT/G40-10	NASP18GW-DPT/G40-20	NASP18GW-DPT/G40-30
Sample Date			2/13/2006 **	02/13/06	02/13/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	11.1	**250**	**77**	**74**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	13.8	**310**	**63**	**100**
BENZENE	1	100	1 U	1 U	1 U	5 U	2 U	2 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	**49**	3.1	7.2
M+P-XYLENES	NC	NC	4.3	5.5	7.4	860	78.42	189
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	25 U	10 U	10 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**140**	9.22	**18**
O-XYLENE	NC	NC	1.2	1.5	2	300	9.34	22
TOLUENE	40	400	1 U	1.2	1 U	5	2 U	2
XYLENES, TOTAL	20	200	5.5	7	9.4	**1160**	**87.76**	**211**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G40-40	NASP18GW-DPT/G40-55	NASP18GW-DPT/G44-10	NASP18GW-DPT/G44-20	NASP18GW-DPT/G44-30	NASP18GW-DPT/G44-40
Sample Date			02/13/06	02/13/06	02/15/06	02/15/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**35**	**43**	14.9	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**50**	**59**	15.4	5 U	5 U	5 U
BENZENE	1	100	2 U	2 U	1 U	1 U	1 U	**1.2**
ETHYLBENZENE	30	300	4.5	6.4	3.2	1 U	1 U	2
M+P-XYLENES	NC	NC	93	120	56.8	3.9	7.4	23.3
METHYL TERT-BUTYL ETHER	20	200	10 U	10 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	10	13	13.5	5 U	5 U	5 U
O-XYLENE	NC	NC	11	15	17.1	1.1	2.2	7.5
TOLUENE	40	400	2	4	1 U	1 U	1 U	1.4
XYLENES, TOTAL	20	200	**104**	**135**	**73.9**	5	9.6	**30.8**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G44-55	NASP18GW-DPT/I17-10	NASP18GW-DPT/I17-20	NASP18GW-DPT/I17-30	NASP18GW-DPT/I17-40	NASP18GW-DPT/I21-15
Sample Date			02/15/06	02/11/06	02/11/06	02/11/06	02/11/06	03/19/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	9.4	**28**	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	9.8	**30**	5 U	5 U	5 U	5 U
BENZENE	1	100	**5.9**	5 U	**8.2**	**81.5**	**10**	**2**
ETHYLBENZENE	30	300	5.4	**58**	1	24	1 U	10.5
M+P-XYLENES	NC	NC	64.9	320	3.1	32.6	2 U	52.1
METHYL TERT-BUTYL ETHER	20	200	5 U	25 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	7.3	**47**	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	20	200	1.2	14.2	1 U	28.5
TOLUENE	40	400	2.1	**360**	1 U	1 U	1 U	2.1
XYLENES, TOTAL	20	200	**84.9**	**520**	4.3	**46.8**	ND	**80.6**

****** = NASP18GA-DU02-02132006 is a duplicate sample of NASP18GW-DPT/G35-30

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 8 OF 11

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I21-35	NASP18GW-DPT/I21-55	NASP18GW-DPT/I25-15	NASP18GW-DPT/I37-10	NASP18GW-DPT/I37-20	NASP18GW-DPT/I37-30
Sample Date			03/19/06	03/19/06	03/17/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1.7	2.1	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	8.4	11.8	3	4	5.3	7.5
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	4.8	6.3	1.4	1 U	1.4	2.1
TOLUENE	40	400	1.5	1.1	1 U	1 U	1 U	1
XYLENES, TOTAL	20	200	13.2	18.1	4.4	4	6.7	9.6

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I37-40	NASP18GW-DPT/I37-55	NASP18GW-DPT/I39-10	NASP18GW-DPT/I39-20	NASP18GW-DPT/I39-30	NASP18GW-DPT/I39-40
Sample Date			02/13/06	02/13/06	02/13/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	8	24.7	**99**	**140**	5.3	9.2
2-METHYLNAPHTHALENE	28	280	7	23.1	**130**	**190**	5 U	7.3
BENZENE	1	100	**1.1**	**3**	1 U	1 U	1 U	**4.3**
ETHYLBENZENE	30	300	1 U	2	3.5	**89.1**	1 U	2
M+P-XYLENES	NC	NC	8.4	28.5	1600 L	1800 L	5.4	24.8
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	9	**150**	**200**	5 U	4.3
O-XYLENE	NC	NC	2.5	8.1	520 L	580 L	1 U	7.3
TOLUENE	40	400	1.6	2.8	18.4	21.3	1 U	3.3
XYLENES, TOTAL	20	200	10.9	**36.6**	**2120 L**	**2380 L**	5.4	**32.1**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I39-55	NASP18GW-DPT/I41-15	NASP18GW-DPT/I41-35	NASP18GW-DPT/I41-55	NASP18GW-DPT/I45-15	NASP18GW-DPT/I45-35
Sample Date			02/13/06	03/20/06	03/20/06	03/20/06	03/20/06	03/20/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	10.2	7.1	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	12.3	7.5	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1.7	3.9	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	17.5	29.6	2.3	5.4	2.6	2.6
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	4.2	6.4	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	4.6	14.3	1 U	1.5	1 U	1 U
TOLUENE	40	400	2.5	1.3	1 U	1 U	1 U	1
XYLENES, TOTAL	20	200	**22.1**	**43.9**	2.3	6.9	2.6	2.6

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I45-55	NASP18GW-DPT/I5-30	NASP18GW-DPT/J07-20	NASP18GW-DPT/K11-20	NASP18GW-DPT/K11-30	NASP18GW-DPT/K11-40
Sample Date			03/20/06	02/11/06	03/16/06	02/08/06	02/08/06	02/08/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**1.3**	**1.4**	**1.1**	**1.2**	**2.6**
ETHYLBENZENE	30	300	1	1 U	1	1 U	1 U	1 U
M+P-XYLENES	NC	NC	3.7	2 U	2.3	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.1	1 U	1.1	1 U	1 U	1 U
TOLUENE	40	400	1.5	2	1.9	1 U	1.2	1.9
XYLENES, TOTAL	20	200	4.8	ND	3.4	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K11-55	NASP18GW-DPT/K13-20	NASP18GW-DPT/K15-10	NASP18GW-DPT/K15-20	NASP18GW-DPT/K15-55	NASP18GW-DPT/K17-20
Sample Date			02/08/06	02/08/06	02/08/06	02/08/06	02/08/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	50 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	50 U	5 U	5 U
BENZENE	1	100	**1.8**	**4.2**	**7.7**	**43**	1 U	**1.1**
ETHYLBENZENE	30	300	1 U	1 U	9.3	**78**	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2.6	52.4	440	2.6	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	50 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	8.6	**120**	5 U	5 U
O-XYLENE	NC	NC	1 U	1.3	18.4	140	1 U	1 U
TOLUENE	40	400	1.8	1 U	1 U	10 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	3.9	**70.8**	**580**	2.6	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K17.5-10	NASP18GW-DPT/K17.5-20	NASP18GW-DPT/K17.5-30	NASP18GW-DPT/K17.5-40	NASP18GW-DPT/K17.5-55	NASP18GW-DPT/K21-30
Sample Date			02/11/06	02/11/06	02/11/06	02/11/06	02/11/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.7**	**50.9**	**25**	**2**	1 U	1 U
ETHYLBENZENE	30	300	1 U	12.1	1 U	1 U	1 U	1.2
M+P-XYLENES	NC	NC	5.1	87.8	2 U	2.5	2.1	11.7
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.5	39.1	1 U	1 U	1 U	3.6
TOLUENE	40	400	1 U	1.7	1 U	1 U	1 U	1.1
XYLENES, TOTAL	20	200	6.6	**126.9**	ND	2.5	2.1	15.3

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K23-20	NASP18GW-DPT/K23-30	NASP18GW-DPT/K39-35	NASP18GW-DPT/K39-75	NASP18GW-DPT/K43-10	NASP18GW-DPT/K43-15
Sample Date			03/20/06	03/20/06	03/18/06	03/18/06	03/21/06	03/21/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	19.1	15.3
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	17.6	15
BENZENE	1	100	1 U	1 U	1 U	1 U	**1.3**	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	23.96	7
M+P-XYLENES	NC	NC	6.7	4.9	2 U	2 U	262 L	88.4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	**38.8**	**21.7**
O-XYLENE	NC	NC	1 U	1	1 U	1 U	7.5	1
TOLUENE	40	400	1	1	1.1	1.2	1.2	1 U
XYLENES, TOTAL	20	200	6.7	5.9	ND	ND	**269.5 L**	**89.4**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K43-20	NASP18GW-DPT/K43-30	NASP18GW-DPT/K43-35	NASP18GW-DPT/K43-40	NASP18GW-DPT/K43-55	NASP18GW-DPT/K43-55
Sample Date			03/21/06	03/21/06	03/21/06	03/21/06	03/21/06	03/21/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	6.4	7.9	5 U	10.8	**48.2**	5 U
2-METHYLNAPHTHALENE	28	280	7.5	8	5 U	12.8	**58.7**	5 U
BENZENE	1	100	1 U	**2.7**	1 U	**2.3**	**36.7**	1 U
ETHYLBENZENE	30	300	1 U	3.3	1.9	5.5	**34.5**	2.2
M+P-XYLENES	NC	NC	4.9	40	25.1	67	110	27
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	10.1	5 U	**17.2**	**85.8**	5 U
O-XYLENE	NC	NC	1 U	1	1 U	1.7	7.9	1 U
TOLUENE	40	400	1 U	1.8	1 U	2	5.2	1 U
XYLENES, TOTAL	20	200	4.9	41	**25.1**	**68.7**	**117.9**	**27**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/M19-15	NASP18GW-DPT/M19-35	NASP18GW-DPT/M19-75	NASP18GW-DPT/N15-20	NASP18GW-DPT/N15-30	NASP18GW-DPT/N15-40
Sample Date			03/15/06	03/15/06	03/15/06	02/11/06	02/11/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.4**	1 U	1 U	**2.8**	**1.2**	**1.2**
ETHYLBENZENE	30	300	1.5	1 U	1 U	2.2	1 U	1 U
M+P-XYLENES	NC	NC	11	2.8	2.9	11.6	2.5	2.3
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.9 U	1 U	1 U	2.2	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	11	2.8	2.9	13.8	2.5	2.3

TABLE 4-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 11 OF 11

Sample Designation	GCTL	NADSC	DPT Groundwater Locations	
			NASP18GW-DPT/N15-55	NASP18GW-DPT/N19-30
Sample Date			02/11/06	02/12/06
Volatile Organics - mobile (ug/L)				
1-METHYLNAPHTHALENE	28	280	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U
BENZENE	1	100	**2.4**	1 U
ETHYLBENZENE	30	300	1.4	1
M+P-XYLENES	NC	NC	3.5	8.2
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U
O-XYLENE	NC	NC	1 U	3.7
TOLUENE	40	400	1 U	1 U
XYLENES, TOTAL	20	200	3.5	11.9

Notes:
Bold shaded cell = exceedance of FDEP GCTLs
µg/L = micrograms per liter
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration
U = Less than laboratory method detection limit.
L = Off-scale high (estimated)
ND = not detected
GW-DPT = Sample type (DPT Groundwater)
NC = No concentration
Note: GW-DPT = Sample type (DPT Groundwater)
Note: QA/QC samples did that did not have detections are included in Appendix F.

These exceedances are not believed to be representative of the level of contamination in the deep aquifers; however, the deep monitor wells already existing in the vicinity of DPT locations C37 and E37 did not show exceedances for these aforementioned contaminants. The results for the monitor wells will be discussed in sections 4.1.2 and 4.1.7. "Step-out" sampling was conducted until both horizontal and vertical delineation (no GCTL exceedances) was achieved for Site 18.

4.1.2 Existing Monitoring Well Groundwater Results – Mobile Laboratory

Benzene was detected in five groundwater samples (18GI01, 18GI27, 18GS01, 18GS07, 18GS17) at concentrations exceeding the FDEP GCTL of 1 μg/L. Toluene was detected in one groundwater sample (18GS02) in excess of the FDEP GCTL of 40 μg/L. Six groundwater samples (18GS01, 18GS02, 18GS07, 18GS18, 18GS26, and 18GS28) contained concentrations of ethylbenzene in excess of its FDEP GCTL of 30 μg/L. Total xylenes were detected in 12 groundwater samples (18GS01, 18GS02, 18GS05, 18GS06, 18GS07, 18GS17, 18GS18, 18GS19, 18GS26, 18GS28, 18GS30, and 18GW25) at concentrations exceeding the FDEP GCTL of 20 μg/L. Ten groundwater samples (18GS01, 18GS02, 18GS05, 18GS06, 18GS07, 18GS17, 18GS18, 18GS26, 18GS28, and 18GW25) contained concentrations of naphthalene in excess of the FDEP GCTL of 14 μg/L. Six groundwater samples contained concentrations of 1-methylnaphthalene (18GS01, 18GS02, 18GS05, 18GS07, 18GS18, and 18GS26) in excess of the FDEP GCTL of 28 μg/L. Six groundwater samples contained concentrations of 2-methylnaphthalene (18GS01, 18GS02, 18GS05, 18GS07, 18GS18, and 18GS26) in excess of the FDEP GCTL of 28 μg/L. Based on the February and March 2006 sampling of the existing monitoring wells, benzene was the only contaminant detected as an exceedance of the FDEP GCTLS in the intermediate aquifer, and the remainder of the exceedances were detected in the shallow aquifer. The groundwater screening results showing all monitoring wells with detections are presented in Table 4-2. The complete summary of the groundwater screening results are presented in Appendix F. The extent of the VOC contamination based on the mobile laboratory results is shown in Figure 4-1. The locations of the new monitoring wells were based on these results.

4.1.3 Fixed-Base Laboratory Groundwater Confirmation Results

Seven confirmation samples, NASP18-GW-DPT/D10-15, NASP18-GW-DPT/D10-35, NASP18-GW-DPT/D10-55, NASP18-GW-DPT/D10-75, NASP18-GW-DPT/I41-15, NASP18-GW-DPT/I41-35, and NASP18-GW-DPT/I41-55, collected during the DPT screening investigation were submitted to an on-site mobile laboratory and were sent to an off-site fixed-based laboratory for confirmatory analysis. The seven samples were chosen from locations that represent the range (low, medium, and high) of BTEX concentrations detected during the mobile laboratory screening analysis. The results of the fixed-base laboratory confirmation samples with corresponding mobile

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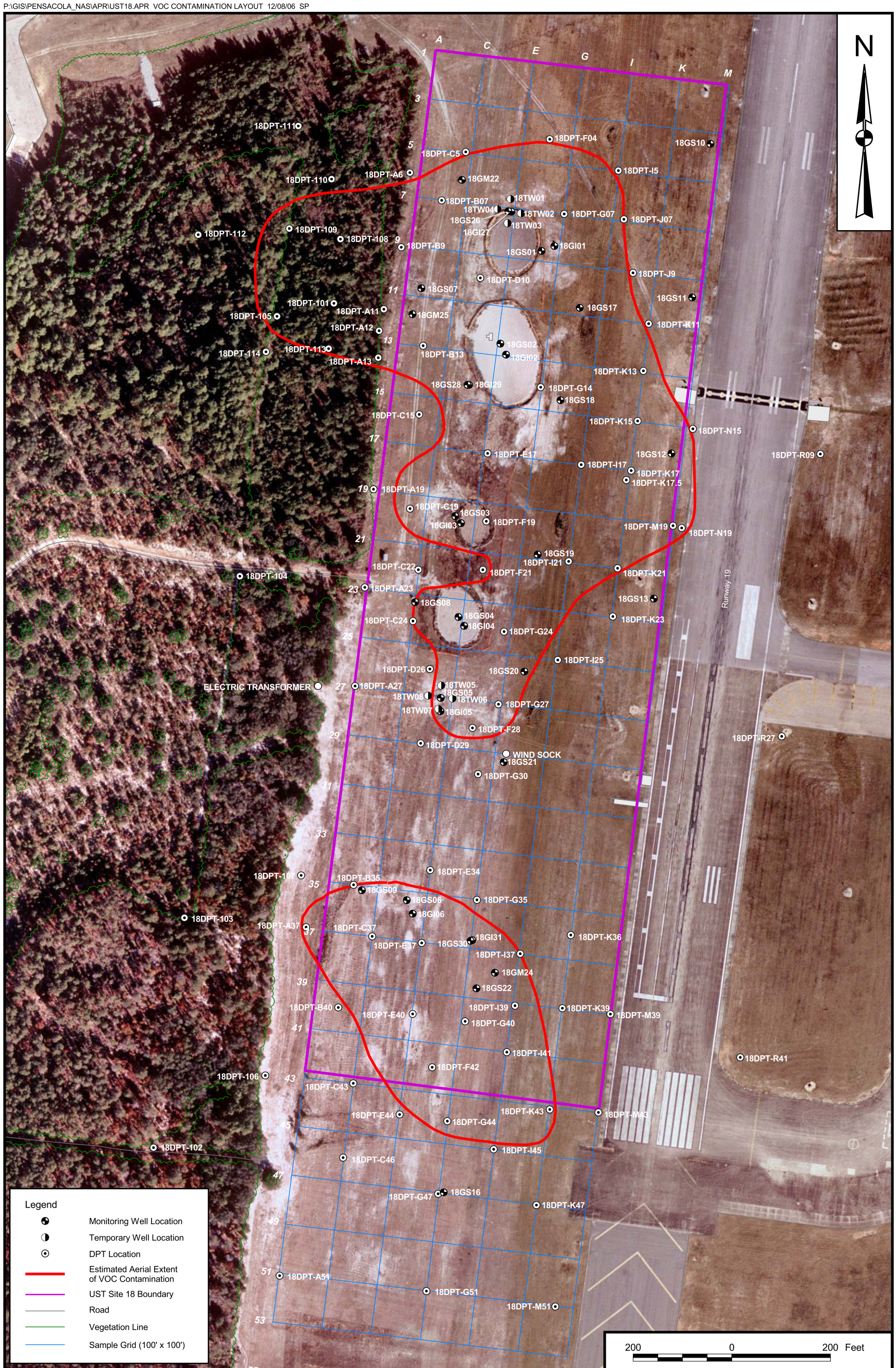

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S. PAXTON	10/12/06
CHECKED BY	DATE
C. METZ	12/08/06
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

NAVFAC

ESTIMATED EXTENT OF VOC CONTAMINATION

UST SITE 18

NAS PENSACOLA

PENSACOLA, FLORIDA

CONTRACT NUMBER	
CTO 0005	
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TABLE 4-2
MOBILE LABORATORY ANALYTICAL RESULTS - MONITORING WELL LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 2

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GI01-02102006	NASP18GW-GI27-02072006	NASP18GW-GS01	NASP18GW-DU01	NASP18GW-GS02
Sample Location			18GI01	18GI27	18GS01	Duplicate of 18GS01	18GS02
Sample Date			02/11/06	02/07/06	02/11/06	02/10/06	02/07/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	5 U	**45.6**	**39.5**	**85**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	**59.7**	**50.7**	**91**
BENZENE	1	100	**10.8**	**7.1**	**470**	**450**	10 U
ETHYLBENZENE	30	300	2.7	6	**130**	**130**	**130**
M+P-XYLENES	NC	NC	6.1	12.6	280	290	420
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	50 U
NAPHTHALENE	14	140	5 U	5 U	**180**	**160**	**160**
O-XYLENE	NC	NC	1	6.3	56.5	53.3	46
TOLUENE	40	400	1 U	1 U	5.7	5.6	**56**
XYLENES, TOTAL	20	200	7.1	18.9	**336.5**	**343.3**	**466**

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS04	NASP18GW-GS05	NASP18GW-GS06	NASP18GW-GS07	NASP18GW-GS17
Sample Location			18GS04	18GS05	18GS06	18GS07	18GS17
Sample Date			02/11/06	02/09/06	02/09/06	02/07/06	02/10/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	16.9	**29.6**	13	**31**	13.7
2-METHYLNAPHTHALENE	28	280	22.5	**32.2**	12	**36**	14.1
BENZENE	1	100	1	1 U	2 U	**3**	**17.5**
ETHYLBENZENE	30	300	1.6	8.4	16	**44**	19
M+P-XYLENES	NC	NC	3.2	36.8	140	200	39.2
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	10 U	10 U	5 U
NAPHTHALENE	14	140	6.7	**17.1**	**19**	**59**	**98.3**
O-XYLENE	NC	NC	1 U	22.1	51	6.7	1 U
TOLUENE	40	400	1 U	1 U	25	4.2	1 U
XYLENES, TOTAL	20	200	3.2	**58.9**	**191**	**206.7**	**39.2**

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS18	NASP18GW-GS19	NASP18GW-GS26-02072006	NASP18GW-GS28-02072006	NASP18GW-GS30-02082006
Sample Location			18GS18	18GS19	18GS26	18GS28	18GS30
Sample Date			02/10/06	02/10/06	02/07/06	02/07/06	02/08/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	**72**	5 U	**140**	50 U	50 U
2-METHYLNAPHTHALENE	28	280	**76**	5 U	**190**	50 U	50 U
BENZENE	1	100	**6.3**	**1.8**	10 U	10 U	10 U
ETHYLBENZENE	30	300	**160**	1 U	**160**	**120**	10 U
M+P-XYLENES	NC	NC	680	11.6	130	640	210
METHYL TERT-BUTYL ETHER	20	200	10 U	5 U	50 U	50 U	50 U
NAPHTHALENE	14	140	**160**	5 U	**280**	**73**	50 U
O-XYLENE	NC	NC	2.3	10.7	10 U	310	76
TOLUENE	40	400	2 U	1 U	10 U	39	10 U
XYLENES, TOTAL	20	200	**682.3**	**22.3**	**130**	**950**	**286**

TABLE 4-2
MOBILE LABORATORY ANALYTICAL RESULTS - MONITORING WELL LOCATIONS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 2 OF 2

Sample Designation	GCTL	NADSC	Monitor Well Locations
			NASP18GW-GW25-02072006
Sample Location			18GW25
Sample Date			02/07/06
Volatile Organics - mobile (ug/L)			
1-METHYLNAPHTHALENE	28	280	24.5
2-METHYLNAPHTHALENE	28	280	26.8
BENZENE	1	100	1 U
ETHYLBENZENE	30	300	8
M+P-XYLENES	NC	NC	38
METHYL TERT-BUTYL ETHER	20	200	5 U
NAPHTHALENE	14	140	**22.8**
O-XYLENE	NC	NC	1.6
TOLUENE	40	400	1 U
XYLENES, TOTAL	20	200	**39.6**

Notes:
Bold shaded cell = exceedance of FDEP GCTLs
µg/L = micrograms per liter
FCEB = Field Clean Equipment Blank
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration
U = Less than laboratory method detection limit.
L = Off-scale high (estimated)
ND = not detected

laboratory results are provided in Table 4-3. The fixed-based laboratory analytical report is included in Appendix D.

4.1.4 Fixed-Based Monitoring Well Sampling Results

Groundwater samples were collected from 65 newly installed and already existing monitoring wells at UST Site 18 in late April and early May of 2006. See Figure 1-3 for monitoring well locations. Monitoring wells with a screen interval shallower than 20 ft bls are considered to be shallow monitoring wells. Monitoring wells with screen intervals between 20 and 40 ft bls are considered to be intermediate depth. Deep wells have screens deeper than 40 ft bls. Groundwater samples collected from the monitoring wells were analyzed for VOCs, EDB, PAHs, TPH, and lead. Select wells were analyzed for natural attenuation parameters (iron, manganese, total organic carbon, alkalinity, anions, methane, ethane, and ethene). The results of the groundwater laboratory analyses are summarized in Table 4-4, and the validated laboratory analytical data is included in Appendix D.

Approximate plume maps for the shallow, intermediate, and deep flow zones, depicting the exceedances of GCTLs from the DPT/mobile laboratory results, the existing monitoring wells/mobile laboratory results, and the fixed-based monitoring well results are included as Figures 4-2, 4-3, and 4-4, respectively.

4.1.5 Shallow Monitoring Well Groundwater Samples

Four VOCs (benzene, ethylbenzene, toluene, and total xylenes) were detected in the shallow groundwater samples in excess of FDEP GCTLs. The shallow groundwater samples also contained FDEP GCTL exceedances of three PAH compounds: 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. Lead was detected in excess of FDEP GCTLs in 10 shallow groundwater monitoring wells. Iron was detected in excess of GCTLs in 30 shallow wells. Manganese was detected in excess of GCTLs in six shallow wells.

See Figure 4-5 and 4-6 for organic (VOCs and PAHs) GCTL and NADSC exceedances, respectively, detected in the monitoring wells. See Figure 4-7 and 4-8 for inorganic (lead, iron, manganese) GCTL and NADSC exceedances, respectively, detected in the monitoring wells. A summary of the GCTL exceedances, per 62-777, FAC, is provided below.

TABLE 4-3
COMPARISON OF MOBILE LABORATORY AND FIXED-BASE LABORATORY RESULTS
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

			NASP18-								
Sample Designation	**GCTL**	**NADSC**	GW-DPT/D10-15	GW-DPT/D10-15	% Difference	GW-DPT/D10-35	GW-DPT/D10-35	% Difference	GW-DPT/D10-55	GW-DPT/D10-55	% Difference
Sample Date			03/22/06	03/22/06	Fixed and Mobile	03/22/06	03/22/06	Fixed and Mobile	03/22/06	03/22/06	Fixed and Mobile
Volatile Organics - (ug/L)			**Fixed Base**	**Mobile ***		**Fixed Base**	**Mobile ***		**Fixed Base**	**Mobile ***	
BENZENE	1	100	0.91 J	**1.7**	46	**17**	**25**	32	0.93 J	1.5	38
ETHYLBENZENE	30	300	1 U	1 U	NA	0.44 J	1.2	63	0.31 J	1 U	NA
METHYL TERT-BUTYL ETHER	20	200	0.58 J	5 U	NA	1 U	5 U	NA	1 U	5 U	NA
NAPHTHALENE	14	140	1.1	5 U	NA	3.4	9.9	66	2.6	6.6	61
TOLUENE	40	400	0.38 J	1 U	NA	0.88 J	1.4	37	0.43 J	1 U	NA
TOTAL XYLENES	20	200	10	17	41	6.1	11.4	46	4.5	8.1	44

			NASP18-								
Sample Designation	**GCTL**	**NADSC**	GW-DPT/D10-75	GW-DPT/D10-75	% Difference	GW-DPT/I41-15	GW-DPT/I41-15	% Difference	GW-DPT/I41-35	GW-DPT/I41-35	% Difference
Sample Date			03/22/06	03/22/06	Fixed and Mobile	03/20/06	03/20/06	Fixed and Mobile	03/20/06	03/20/06	Fixed and Mobile
Volatile Organics - (ug/L)			**Fixed Base**	**Mobile ***		**Fixed Base**	**Mobile ***		**Fixed Base**	**Mobile ***	
BENZENE	1	100	**2.8**	**9.8**	71	1 U	1 U	NA	1 U	1 U	NA
ETHYLBENZENE	30	300	0.46 J	2.4	81	2.6	3.9	33	1 U	1 U	NA
METHYL TERT-BUTYL ETHER	20	200	1 U	5 U	NA	1 U	5 U	NA	1 U	5 U	NA
NAPHTHALENE	14	140	2.7	**21.8**	88	3.3	6.4	48	1 U	5 U	NA
TOLUENE	40	400	0.8 J	3.5	77	0.94 J	1.3	36	1 U	1 U	NA
TOTAL XYLENES	20	200	6.3	**29.3**	78	**27**	**43.9**	38	0.81 J	2.3	65

			NASP18-								
Sample Designation	**GCTL**	**NADSC**	GW-DPT/I41-55	GW-DPT/I41-55	% Difference	DPTC43-15-0406	DPTC43-35-0406	DPTC43-55-0406	114-15-0406	114-35-0406	B07-15-0406
Sample Date			03/20/06	03/20/06	Fixed and Mobile	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06
Volatile Organics (ug/L)			**Fixed Base**	**Mobile ***		**Fixed Base**					
BENZENE	1	100	0.13 J	1 U	NA	0.16 J	1 U		0.25 J	0.44 J	0.28 J
ETHYLBENZENE	30	300	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
METHYL TERT-BUTYL ETHER	20	200	1 U	5 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
NAPHTHALENE	14	140	1 U	5 U	NA	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	0.21 J	1 U	NA	0.36 J	0.37 J	0.61 J	0.33 J	0.9 J	0.45 J
TOTAL XYLENES	20	200	0.97 J	6.9	86	1 U	1 U	1 U	1 U	1 U	1 U

			NASP18-								
Sample Designation	**GCTL**	**NADSC**	B07-35-0406	B07-55-0406	G07-15-0406	G07-35-0406	G07-55-0406	G07-75-0406	G14-15-0406	G14-35-0406	G14-55-0406
Sample Date			04/06/06	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06	04/06/06
Volatile Organics (ug/L)			**Fixed Base**								
BENZENE	1	100	0.38 J	0.46 J	**7.3**	**2.2 J**	0.93 J	**4.4 J**	**13**	**7.7**	**4**
ETHYLBENZENE	30	300	1 U	1 U	0.81 J	1.4 J	0.8 J	2.1 J	30	9.2	28
METHYL TERT-BUTYL ETHER	20	200	1 U	1 U	1 U	2 UR	1 U	2 UR	1 U	1 U	1 U
NAPHTHALENE	14	140	1 U	1 U	8.9	3.9 J	1.7	6.9 J	**34**	**24**	**60**
TOLUENE	40	400	0.56 J	0.74 J	0.75 J	1.2 J	0.46 J	1.6 J	1.6	2	3.1
TOTAL XYLENES	20	200	1 U	1 U	17	12 J	7.2	18 J	**130**	**140**	**260**

			NASP18-			
Sample Designation	**GCTL**	**NADSC**	G14-75-0406	G44-15-0406	G44-35-0406	G44-55-0406
Sample Date			04/06/06	04/06/06	04/06/06	04/06/06
Volatile Organics (ug/L)			**Fixed Base**			
BENZENE	1	100	**3.3 J**	1 U	1 U	0.34 J
ETHYLBENZENE	30	300	13 J	6	1 U	1 U
METHYL TERT-BUTYL ETHER	20	200	2 UR	1 U	1 U	1 U
NAPHTHALENE	14	140	**38 J**	3	1 U	1 U
TOLUENE	40	400	2.7 J	0.47 J	1 U	1.1
TOTAL XYLENES	20	200	**120 J**	**39**	1 U	1.4

Notes:
* Mobile laboratory data is the split sample of the fixed-base laboratory data (confirmation sample).
Bold shaded cell = exceedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
µg/L = micrograms per liter

TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 1 OF 8

CONSTITUENT	GCTL	NADSC	SHALLOW								
			NASP18-								
			GS01-0506	GS02-0406	GS03-0506	GS04-0506	GS05-0406	GS06-0506	GS07-0506	GS08-0406	GS09-0406
			05/04/2006	04/25/2006	05/04/2006	05/03/2006	04/27/2006	05/03/2006	05/03/2006	04/27/2006	04/27/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	1.8 U	1.1 U	1.8 U	0.2 J	0.57 U	0.14 U	1.8 U	0.57 U	0.57 U
1,2-DICHLOROETHANE	3	300	1 U	0.26 U	1 U	0.15 U	0.13 U	0.15 U	1 U	0.13 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	1.4 U	0.48 U	1.4 U	0.53 U	0.24 U	0.53 U	1.4 U	0.24 U	0.24 U
BENZENE	1	100	**420**	**5.9**	1.4 U	0.11 U	0.12 U	0.11 U	**9.6**	0.12 U	0.12 U
CHLOROFORM	70	700	1 U	0.26 U	1 U	0.15 U	0.13 U	1.2	1 U	0.13 U	1.1
CIS-1,2-DICHLOROETHENE	70	700	1.4 U	0.28 U	1.4 U	0.44 U	0.14 U	0.44 U	1.4 U	0.14 U	0.14 U
ETHYLBENZENE	30	300	**60**	**140**	**140**	1.1	9.9	4	**190**	0.35 U	0.35 U
METHYL TERT-BUTYL ETHER	20	200	1.8 J	0.2 U	1.2 U	0.17 U	0.1 U	0.17 U	1.2 U	0.1 U	0.1 U
TOLUENE	40	400	3.9 J	**46**	**53**	0.18 U	0.32 J	3.6	10	0.16 U	0.16 U
TOTAL XYLENES	20	200	**240**	**580**	**2500**	0.59 J	**78**	**36**	**1100**	0.47 U	0.47 U
TRANS-1,2-DICHLOROETHENE	100	1000	1.1 U	0.3 U	1.1 U	0.4 U	0.15 U	0.4 U	1.1 U	0.15 U	0.15 U
TRICHLOROETHENE	3	300	1.9 J	0.46 U	2.8 J	0.28 U	0.23 U	0.28 U	1.9 J	0.23 U	0.23 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	5.3	NS	2	0.68 U	NS	0.68 U	NS	NS	NS
ETHENE	NC	NC	0.61 J	NS	0.38 U	0.38 U	NS	0.38 U	NS	NS	NS
METHANE	NC	NC	3500	NS	730	1000	NS	10 U	NS	NS	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	11	**51**	16	6.3	16	1.7	**39**	1.3	0.01 U
2-METHYLNAPHTHALENE	28	280	15	**58**	21	9	19	1.7	**52**	0.016 U	0.016 U
ACENAPHTHENE	20	200	0.1 U	0.01 U	0.2 U	0.12	0.11	0.01 U	0.21 U	0.98	0.01 U
ANTHRACENE	2100	21000	0.095 U	0.0098 U	0.19 U	0.01 U	0.01 U	0.0095 U	0.2 U	0.56	0.0098 U
BENZO(A)ANTHRACENE	0.05	5	0.1 U	0.011 U	0.21 U	0.012 U	0.011 U	0.01 U	0.22 U	0.011 U	0.011 U
BENZO(A)PYRENE	0.2	20	0.095 U	0.0098 U	0.19 U	0.01 U	0.01 U	0.0095 U	0.2 U	0.0097 U	0.0098 U
BENZO(B)FLUORANTHENE	0.05	5	0.16 U	0.016 U	0.33 U	0.018 U	0.017 U	0.016 U	0.33 U	0.016 U	0.016 U
BENZO(G,H,I)PERYLENE	210	2100	0.13 U	0.013 U	0.26 U	0.014 U	0.014 U	0.013 U	0.27 U	0.013 U	0.013 U
BENZO(K)FLUORANTHENE	0.5	50	0.13 U	0.013 U	0.26 U	0.014 U	0.014 U	0.013 U	0.27 U	0.013 U	0.013 U
CHRYSENE	4.8	480	0.09 U	0.0093 U	0.18 U	0.01 U	0.0098 U	0.009 U	0.19 U	0.0092 U	0.0093 U
FLUORANTHENE	280	2800	0.12 U	0.012 U	0.23 U	0.013 U	0.012 U	0.012 U	0.24 U	0.36	0.012 U
FLUORENE	280	2800	0.12 U	1.2	0.26 U	0.014 U	0.13	0.012 U	0.26 U	0.013 U	0.013 U
NAPHTHALENE	14	140	**52**	**79**	**32**	1.7	7.2	2.9	**99**	0.019 U	0.052 U
PHENANTHRENE	210	2100	0.14 U	0.014 U	0.42 J	0.09	0.015 U	0.014 U	0.29 U	0.014 U	0.014 U
PYRENE	210	2100	0.1 U	0.039 J	0.21 U	0.012 U	0.011 U	0.01 U	0.22 U	0.1	0.011 U
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	**41000**	**19000**	**18000**	1400	1500	450 U	**30000**	160 U	160 U
Inorganics (ug/L)											
IRON	300	3000	**408**	**4480**	**764**	197	**2290**	48.7	**2470**	**1140**	**2420**
LEAD	15	150	**23.5**	**17.4**	**35.4**	4.3	**156**	**27.1**	5.4	1.5 U	1.5 U
MANGANESE	50	500	9.3	**94.4**	23.1	48.8	14.9	21.7	7.4	11.2	28.3
Inorganics, Filtered (ug/L)											
IRON	300	3000	**310**	**4630**	**599**	89.6	270	30 U	**2300**	**525**	30 U
MANGANESE	50	500	7.6	**94.7**	20.6	43.4	9	26.2	7.3	11.7	24.9
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	264000	NS	4500	95800	NS	1000 U	NS	NS	NS
NITRATE-N	10000	100000	50 U	NS	50 U	50 U	NS	66 J	NS	NS	NS
ORTHOPHOSPHATE-P	NC	NC	24 J	NS	140	61	NS	10 U	NS	NS	NS
SULFATE	250000	2500000	11700	NS	1000 U	3900 J	NS	9000	NS	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	24400	NS	470 J	2200	NS	300 U	NS	NS	NS
TOTAL ORGANIC CARBON	NC	NC	136000	NS	17400	21500	NS	1400 J	NS	NS	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 2 OF 8

CONSTITUENT	GCTL	NADSC	SHALLOW								
			NASP18-								
			GS10-0506	GS11-0406	GS12-0406	GS13-0406	GS14-0406	GS15-0406	GS16-0406	GS17-0406	GS18-0406
			05/03/2006	04/27/2006	04/25/2006	04/25/2006	04/27/2006	04/27/2006	04/27/2006	04/27/2006	04/25/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	0.36 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	1.1 U
1,2-DICHLOROETHANE	3	300	0.2 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.28 UR	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U
BENZENE	1	100	0.29 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**9.3**	**10**
CHLOROFORM	70	700	0.21 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	2.4	0.13 U	0.26 U
CIS-1,2-DICHLOROETHENE	70	700	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.46 J
ETHYLBENZENE	30	300	0.3 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	20	**120**
METHYL TERT-BUTYL ETHER	20	200	0.24 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U
TOLUENE	40	400	0.3 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.38 J	1.7 J
TOTAL XYLENES	20	200	0.33 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	9.2	**520**
TRANS-1,2-DICHLOROETHENE	100	1000	0.22 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.3 U
TRICHLOROETHENE	3	300	0.27 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
ETHENE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
METHANE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	0.013 J	0.011 U	0.01 U	0.01 U	0.01 U	0.01 U	0.052 U	9.9	15
2-METHYLNAPHTHALENE	28	280	0.022 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.052 U	11	14
ACENAPHTHENE	20	200	0.011 U	0.011 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
ANTHRACENE	2100	21000	0.01 U	0.01 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0097 U	0.0095 U
BENZO(A)ANTHRACENE	0.05	5	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	**0.024 J**
BENZO(A)PYRENE	0.2	20	0.01 U	0.01 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0097 U	0.0095 U
BENZO(B)FLUORANTHENE	0.05	5	0.018 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.016 U	0.016 U
BENZO(G,H,I)PERYLENE	210	2100	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.013 U	0.013 U
BENZO(K)FLUORANTHENE	0.5	50	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.013 U	0.013 U
CHRYSENE	4.8	480	0.01 U	0.0096 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0092 U	0.017 J
FLUORANTHENE	280	2800	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.19
FLUORENE	280	2800	0.014 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.012 U
NAPHTHALENE	14	140	0.098 U	0.084 U	0.02 U	0.052 U	0.052 U	0.052 U	0.099 U	**48**	**24**
PHENANTHRENE	210	2100	0.016 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
PYRENE	210	2100	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.1
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	89 U	180 U	190 U	180 U	160 U	160 U	160 U	**11000**	**7200**
Inorganics (ug/L)											
IRON	300	3000	**1140**	**2070**	**3300**	**3250**	**352**	**704**	128	**487**	**5820**
LEAD	15	150	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	**118**
MANGANESE	50	500	3.0 U	3.2	4.1	7.0	3.0 U	16.9	23.5	23.0	**89.8**
Inorganics, Filtered (ug/L)											
IRON	300	3000	30 U	30 U	**514**	35.7	30 U	129	30 U	**458**	**1600**
MANGANESE	50	500	3 U	3 U	3 U	3 U	3 U	15.8	23.1	22.9	46.5
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE-N	10000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
ORTHOPHOSPHATE-P	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
SULFATE	250000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL ORGANIC CARBON	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 3 OF 8

CONSTITUENT	GCTL	NADSC	SHALLOW								
			NASP18-								
			GS19-0506	GS20-0506	GS21-0406	GS22-0506	GS26-0506	GS28-0406	GS30-0506	MW32S-0406	MW36S-0406
			05/03/2006	05/04/2006	04/25/2006	05/02/2006	05/03/2006	04/27/2006	05/02/2006	04/27/2006	04/25/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	0.14 U	0.36 U	0.57 U	0.36 U	0.28 U	2.8 U	1.8 U	0.57 U	0.57 U
1,2-DICHLOROETHANE	3	300	0.15 U	0.2 U	0.13 U	0.2 U	0.3 U	0.65 U	1 U	0.13 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.53 U	0.28 U	0.24 U	0.28 U	1.1 U	1.2 U	1.4 U	0.24 U	0.24 U
BENZENE	1	100	**1.4**	0.29 U	0.12 U	0.29 U	**9.6**	**4.4 J**	1.4 U	0.12 U	0.12 U
CHLOROFORM	70	700	0.15 U	0.21 U	0.13 U	3.4	0.3 U	0.65 U	1 U	0.13 U	0.13 U
CIS-1,2-DICHLOROETHENE	70	700	0.44 U	0.28 U	0.14 U	0.28 U	0.88 U	0.7 U	1.4 U	0.14 U	0.14 U
ETHYLBENZENE	30	300	0.14 U	0.3 U	0.35 U	0.3 U	**170**	**140**	25	0.35 U	0.35 U
METHYL TERT-BUTYL ETHER	20	200	0.17 U	0.24 U	0.1 U	0.24 U	0.34 U	0.5 U	1.2 U	0.1 U	0.1 U
TOLUENE	40	400	0.18 U	0.3 U	0.16 U	0.3 U	2.5	28	19	0.16 U	0.16 U
TOTAL XYLENES	20	200	17	0.33 U	0.47 U	0.33 U	**150**	**900**	**1200**	0.47 U	0.47 U
TRANS-1,2-DICHLOROETHENE	100	1000	0.4 U	0.22 U	0.15 U	0.22 U	0.8 U	0.75 U	1.1 U	0.15 U	0.15 U
TRICHLOROETHENE	3	300	0.28 U	0.27 U	0.23 U	0.27 U	0.56 U	1.2 U	1.4 U	0.23 U	0.23 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	1.2	NS	NS	NS	NS	NS	1.6	NS	NS
ETHENE	NC	NC	0.38 U	NS	NS	NS	NS	NS	0.38 U	NS	NS
METHANE	NC	NC	630	NS	NS	NS	NS	NS	270	NS	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	0.14	0.14	0.01 U	0.018 U	**200**	20	0.01 U	0.011 U	0.011 U
2-METHYLNAPHTHALENE	28	280	0.016 U	0.016 U	0.017 U	0.026 J	**290**	24	0.018 J	0.018 U	0.018 U
ACENAPHTHENE	20	200	0.01 U	0.01 U	0.01 U	0.01 U	3.2 U	0.01 U	0.01 U	0.011 U	0.011 U
ANTHRACENE	2100	21000	0.0098 U	0.0098 U	0.0099 U	0.0099 U	3 U	0.0098 U	0.0099 U	0.011 U	0.01 U
BENZO(A)ANTHRACENE	0.05	5	0.011 U	0.011 U	0.011 U	0.011 U	3.4 U	0.011 U	0.011 U	0.012 U	0.012 U
BENZO(A)PYRENE	0.2	20	0.0098 U	0.0098 U	0.0099 U	0.0099 U	3 U	0.0098 U	0.0099 U	0.011 U	0.01 U
BENZO(B)FLUORANTHENE	0.05	5	0.016 U	0.016 U	0.017 U	0.017 U	5.1 U	0.016 U	0.017 U	0.018 U	0.018 U
BENZO(G,H,I)PERYLENE	210	2100	0.013 U	0.013 U	0.014 U	0.014 U	4.2 U	0.013 U	0.014 U	0.015 U	0.014 U
BENZO(K)FLUORANTHENE	0.5	50	0.013 U	0.013 U	0.014 U	0.014 U	4.2 U	0.013 U	0.014 U	0.015 U	0.014 U
CHRYSENE	4.8	480	0.0093 U	0.0093 U	0.0094 U	0.0094 U	2.9 U	0.0093 U	0.0094 U	0.01 U	0.01 U
FLUORANTHENE	280	2800	0.012 U	0.012 U	0.012 U	0.012 U	3.7 U	0.012 U	0.012 U	0.013 U	0.013 U
FLUORENE	280	2800	0.013 U	0.013 U	0.013 U	0.013 U	4 U	0.36	0.013 U	0.014 U	0.014 U
NAPHTHALENE	14	140	0.59	0.063 U	0.02 U	0.092 U	**480**	**44**	0.036 U	0.057 U	0.021 U
PHENANTHRENE	210	2100	0.014 U	0.014 U	0.014 U	0.014 U	4.5 U	0.014 U	0.014 U	0.016 U	0.016 U
PYRENE	210	2100	0.011 U	0.011 J	0.011 U	0.011 U	3.4 U	0.011 U	0.011 U	0.012 U	0.012 U
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	2900	260 U	200 U	180 U	**6700**	**20000**	4000	180 U	180 U
Inorganics (ug/L)											
IRON	300	3000	**417**	**759**	**789**	**454**	**1060**	**502**	52.0	**630**	212
LEAD	15	150	1.5 U	1.5 U	1.5 U	1.5 U	5.7	12.0	11.3	1.5 U	1.5 U
MANGANESE	50	500	7.8	14.8	8.3	**105**	15.8	6.4	19.1	5.9	3.0 U
Inorganics, Filtered (ug/L)											
IRON	300	3000	**388**	**628**	**555**	30 U	**985**	**370**	36.6	151	96.8
MANGANESE	50	500	7.5	13.6	6.9	**100**	15.4	5.6	19.5	5.2	3 U
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	8000	NS	NS	NS	NS	NS	9000	NS	NS
NITRATE-N	10000	100000	50 U	NS	NS	NS	NS	NS	300	NS	NS
ORTHOPHOSPHATE-P	NC	NC	19 J	NS	NS	NS	NS	NS	10 U	NS	NS
SULFATE	250000	2500000	1000 U	NS	NS	NS	NS	NS	6600	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	3200	NS	NS	NS	NS	NS	300 UJ	NS	NS
TOTAL ORGANIC CARBON	NC	NC	18400	NS	NS	NS	NS	NS	1600 J	NS	NS

Notes:
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MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 4 OF 8

CONSTITUENT	GCTL	NADSC	SHALLOW							
			NASP18-							
			MW37S-0406	MW41S-0506	MW-41S-0506	MW-41S-0506D	MW44S-0406	MW49S-0506	MW49S-0506-D	MW52S-0406
			04/25/2006	05/03/2006	05/03/2006	05/03/2006	04/25/2006	05/02/2006	05/02/2006	04/27/2006
Volatile Organics (ug/L)										
1,2,4-TRICHLOROBENZENE	70	700	0.57 U	0.7 U	NS	NS	0.57 U	1.8 U	1.8 U	0.57 U
1,2-DICHLOROETHANE	3	300	0.13 U	0.75 U	NS	NS	0.13 U	1 U	1 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.24 U	2.6 U	NS	NS	0.24 U	1.4 U	1.4 U	0.24 U
BENZENE	1	100	0.12 U	**10**	NS	NS	0.12 U	1.4 U	1.4 U	0.12 U
CHLOROFORM	70	700	0.13 U	0.75 U	NS	NS	0.13 U	1 U	1 U	0.38 J
CIS-1,2-DICHLOROETHENE	70	700	0.14 U	2.2 U	NS	NS	0.14 U	1.4 U	1.4 U	0.14 U
ETHYLBENZENE	30	300	0.35 U	**150**	NS	NS	0.35 U	**43 J**	29 J	0.35 U
METHYL TERT-BUTYL ETHER	20	200	0.1 U	0.85 U	NS	NS	0.1 U	1.2 U	1.2 U	0.1 U
TOLUENE	40	400	0.16 U	8.4	NS	NS	0.16 U	24 J	17 J	0.16 U
TOTAL XYLENES	20	200	0.47 U	**700**	NS	NS	0.47 U	**1000**	**760**	0.47 U
TRANS-1,2-DICHLOROETHENE	100	1000	0.15 U	2 U	NS	NS	0.15 U	1.1 U	1.1 U	0.15 U
TRICHLOROETHENE	3	300	0.23 U	1.4 U	NS	NS	0.23 U	1.4 U	1.4 U	0.23 U
Volatile Gases (ug/L)										
ETHANE	NC	NC	NS	0.68 U	0.68 U	NS	NS	1.3	0.91 J	NS
ETHENE	NC	NC	NS	0.38 U	0.38 U	NS	NS	0.38 U	0.38 U	NS
METHANE	NC	NC	NS	2400	NS	2400	NS	120 J	78 J	NS
PAHs (ug/L)										
1-METHYLNAPHTHALENE	28	280	0.012 U	**58**	NS	NS	0.01 U	8.1	9.9	0.028 J
2-METHYLNAPHTHALENE	28	280	0.019 U	**82**	NS	NS	0.017 U	11	12	0.016 U
ACENAPHTHENE	20	200	0.012 U	0.011 U	NS	NS	0.01 U	0.011 U	0.01 U	0.01 U
ANTHRACENE	2100	21000	0.011 U	0.01 U	NS	NS	0.0099 U	0.01 U	0.0095 U	0.0097 U
BENZO(A)ANTHRACENE	0.05	5	0.012 U	0.011 U	NS	NS	0.011 U	0.011 U	0.01 U	0.011 U
BENZO(A)PYRENE	0.2	20	0.011 U	0.01 U	NS	NS	0.0099 U	0.01 U	0.0095 U	0.0097 U
BENZO(B)FLUORANTHENE	0.05	5	0.019 U	0.017 U	NS	NS	0.017 U	0.017 U	0.016 U	0.016 U
BENZO(G,H,I)PERYLENE	210	2100	0.015 U	0.014 U	NS	NS	0.014 U	0.014 U	0.013 U	0.013 U
BENZO(K)FLUORANTHENE	0.5	50	0.015 U	0.014 U	NS	NS	0.014 U	0.014 U	0.013 U	0.013 U
CHRYSENE	4.8	480	0.01 U	0.0096 U	NS	NS	0.0094 U	0.0098 U	0.009 U	0.0092 U
FLUORANTHENE	280	2800	0.014 U	0.012 U	NS	NS	0.012 U	0.012 U	0.012 U	0.012 U
FLUORENE	280	2800	0.015 U	0.79	NS	NS	0.013 U	0.08	0.012 U	0.013 U
NAPHTHALENE	14	140	0.022 U	**110**	NS	NS	0.052 U	**22**	**26**	0.067 U
PHENANTHRENE	210	2100	0.016 U	0.23	NS	NS	0.014 U	0.015 U	0.016 J	0.014 U
PYRENE	210	2100	0.012 U	0.011 U	NS	NS	0.011 U	0.011 U	0.01 U	0.011 U
Petroleum Hydrocarbons (ug/L)										
TPH (C08-C40)	5000	50000	170 U	**19000**	NS	NS	220 U	2900	3100	180 U
Inorganics (ug/L)										
IRON	300	3000	**1330**	**12200**	NS	NS	**1390**	171	160	**475**
LEAD	15	150	1.5 U	1.9	NS	NS	1.5 U	**19.5**	**18.8**	1.5 U
MANGANESE	50	500	10.8	**134**	NS	NS	10.3	24.2	25.4	**50.2**
Inorganics, Filtered (ug/L)										
IRON	300	3000	**826**	**11700**	NS	NS	**1310**	114	146	**303**
MANGANESE	50	500	12.1	**132**	NS	NS	5.9	19.8 J	27.2 J	48.8
Miscellaneous Parameters (ug/L)										
ALKALINITY	NC	NC	NS	47900	NS	NS	NS	2000	2000	NS
NITRATE-N	10000	100000	NS	50 U	NS	NS	NS	50 U	50 U	NS
ORTHOPHOSPHATE-P	NC	NC	NS	37	NS	NS	NS	10 U	10 U	NS
SULFATE	250000	2500000	NS	3100 J	NS	NS	NS	5600	6100	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	2000	NS	NS	NS	690 J	400 J	NS
TOTAL ORGANIC CARBON	NC	NC	NS	19400	NS	NS	NS	1100 J	1300 J	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
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TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
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CONSTITUENT	GCTL	NADSC	SHALLOW						INTERMEDIATE		
			NASP18-								
			MW56S-0406	MW59S-0506	18GW0202	GM24-0506	GM25-0406	MWUNKNOWN01-	GI01-0506	GI02-0406	GI03-0406
			04/27/2006	05/02/2006	05/10/2006	05/02/2006	04/25/2006	04/27/2006	05/04/2006	04/25/2006	04/27/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	0.57 U	1.8 U	NS	0.36 U	0.57 U	0.57 U	0.36 U	0.57 U	0.57 U
1,2-DICHLOROETHANE	3	300	0.13 U	1 U	NS	0.2 U	0.13 U	0.13 U	0.2 U	0.13 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.24 UR	1.4 U	NS	0.28 U	0.24 U	0.24 U	0.28 U	0.24 U	0.24 U
BENZENE	1	100	0.12 U	1.4 U	NS	0.29 U	**1.1**	0.12 U	**3.4**	0.79 J	0.12 U
CHLOROFORM	70	700	0.97 J	1 U	NS	1.5	0.13 U	0.13 U	0.21 U	0.13 U	0.13 U
CIS-1,2-DICHLOROETHENE	70	700	0.14 U	1.4 U	NS	0.28 U	16	0.14 U	0.28 U	0.14 U	0.14 U
ETHYLBENZENE	30	300	0.35 U	**98**	NS	0.3 U	12	0.35 U	0.3 U	0.35 U	0.35 U
METHYL TERT-BUTYL ETHER	20	200	0.1 U	1.2 U	NS	0.24 U	0.1 U	0.1 U	0.24 U	0.1 U	0.1 U
TOLUENE	40	400	0.16 U	**90**	NS	0.3 U	0.28 J	0.44 J	0.3 U	0.16 U	0.16 U
TOTAL XYLENES	20	200	0.47 U	**2000**	NS	0.33 U	**66**	12	0.33 U	0.47 U	0.47 U
TRANS-1,2-DICHLOROETHENE	100	1000	0.15 U	1.1 U	NS	0.22 U	0.64 J	0.15 U	0.22 U	0.15 U	0.15 U
TRICHLOROETHENE	3	300	0.23 U	1.4 U	NS	0.27 U	0.65 J	0.23 U	0.27 U	0.23 U	0.23 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	NS	NS	NS	NS	NS	NS	0.89 J	NS	NS
ETHENE	NC	NC	NS	NS	NS	NS	NS	NS	0.38 U	NS	NS
METHANE	NC	NC	NS	NS	NS	NS	NS	NS	520	NS	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	0.011 U	25	NS	0.024 U	9.8	0.01 U	0.01 U	0.01 U	0.05 U
2-METHYLNAPHTHALENE	28	280	0.017 U	**35**	NS	0.033 J	12	0.016 U	0.016 U	0.016 U	0.05 U
ACENAPHTHENE	20	200	0.011 U	0.15	NS	0.01 U	0.14	0.01 U	0.01 U	0.01 U	0.01 U
ANTHRACENE	2100	21000	0.01 U	0.01 U	NS	0.0097 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0095 U
BENZO(A)ANTHRACENE	0.05	5	0.011 U	0.011 U	NS	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.01 U
BENZO(A)PYRENE	0.2	20	0.01 U	0.01 U	NS	0.0097 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0095 U
BENZO(B)FLUORANTHENE	0.05	5	0.017 U	0.017 U	NS	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U
BENZO(G,H,I)PERYLENE	210	2100	0.014 U	0.014 U	NS	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
BENZO(K)FLUORANTHENE	0.5	50	0.014 U	0.014 U	NS	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
CHRYSENE	4.8	480	0.0096 U	0.0098 U	NS	0.0092 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.009 U
FLUORANTHENE	280	2800	0.012 U	0.012 U	NS	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
FLUORENE	280	2800	0.013 U	0.22	NS	0.013 U	0.29	0.013 U	0.013 U	0.013 U	0.012 U
NAPHTHALENE	14	140	0.053 U	**57**	NS	0.092 U	9.9	0.056 U	0.097 U	0.02 U	0.054 U
PHENANTHRENE	210	2100	0.015 U	0.015 U	NS	0.014 U	0.059	0.014 U	0.014 U	0.014 U	0.014 U
PYRENE	210	2100	0.011 U	0.011 U	NS	0.011 U	0.011 U	0.011 U	0.025 J	0.011 U	0.01 U
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	180 U	**6200**	NS	150 U	1500	300 U	200 U	3000	160 U
Inorganics (ug/L)											
IRON	300	3000	**1030**	**2100**	NS	115	**851**	**1920**	**1620**	**685**	**617**
LEAD	15	150	1.5 U	**18**	**59.5**	1.5 U	1.5 U	1.5 U	1.5 U	3.6	1.5 U
MANGANESE	50	500	22.3	35.7	NS	**69**	10.3	8.9	5.0	6.0	3.5
Inorganics, Filtered (ug/L)											
IRON	300	3000	30 U	**1800**	NS	30 U	**861**	**1870**	**1420**	**640**	**561**
MANGANESE	50	500	19	38	NS	**69.4**	11	13.5	4.8	6	3.7
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	NS	NS	NS	NS	NS	NS	13000	NS	NS
NITRATE-N	10000	100000	NS	NS	NS	NS	NS	NS	50 U	NS	NS
ORTHOPHOSPHATE-P	NC	NC	NS	NS	NS	NS	NS	NS	43	NS	NS
SULFATE	250000	2500000	NS	NS	NS	NS	NS	NS	5300	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	NS	NS	NS	NS	NS	870 J	NS	NS
TOTAL ORGANIC CARBON	NC	NC	NS	NS	NS	NS	NS	NS	3200	NS	NS

Notes:
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NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 6 OF 8

CONSTITUENT	GCTL	NADSC	INTERMEDIATE								
			NASP18-								
			GI04-0406	GI05-0406	GI06-0406	GI27-0506	GI29-0406	GI31-0506	MW33I-0406	MW35I-0406	MW42I-0406
			04/27/2006	04/27/2006	04/27/2006	05/03/2006	04/27/2006	05/02/2006	04/27/2006	04/25/2006	04/25/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	0.57 U	0.57 U	0.57 U	0.14 U	0.57 U	0.36 U	0.57 U	0.57 U	0.57 U
1,2-DICHLOROETHANE	3	300	0.13 U	0.13 U	0.13 U	0.15 U	0.13 U	0.2 U	0.13 U	0.13 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.24 U	0.24 U	0.24 U	0.53 U	0.24 U	0.28 U	0.24 U	0.24 U	0.24 U
BENZENE	1	100	0.12 U	0.12 U	0.12 U	**38**	0.12 U	0.29 U	0.16 J	0.19 J	0.61 J
CHLOROFORM	70	700	0.13 U	0.13 U	0.13 U	0.15 U	0.13 U	0.21 U	0.13 U	0.13 U	0.13 U
CIS-1,2-DICHLOROETHENE	70	700	0.14 U	0.14 U	0.14 U	0.44 U	0.14 U	0.28 U	0.14 U	0.14 U	0.14 U
ETHYLBENZENE	30	300	0.35 U	0.35 U	0.35 U	14	0.35 U	0.3 U	0.35 U	0.35 U	0.35 U
METHYL TERT-BUTYL ETHER	20	200	0.1 U	0.1 U	0.1 U	0.17 U	0.1 U	0.24 U	0.1 U	0.1 U	0.1 U
TOLUENE	40	400	0.16 U	0.16 U	0.16 U	1.4	0.16 U	0.3 U	0.35 J	0.33 J	0.45 J
TOTAL XYLENES	20	200	0.47 U	0.47 U	0.47 U	**52**	0.47 U	0.33 U	0.47 U	0.47 U	1.7
TRANS-1,2-DICHLOROETHENE	100	1000	0.15 U	0.15 U	0.15 U	0.4 U	0.15 U	0.22 U	0.15 U	0.15 U	0.15 U
TRICHLOROETHENE	3	300	0.23 U	0.23 U	0.23 U	0.28 U	0.23 U	0.27 U	0.23 U	0.23 U	0.23 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
ETHENE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
METHANE	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	0.053 U	0.011 U	0.01 U	1.1	0.014 J	20	0.013 J	0.011 U	0.052 U
2-METHYLNAPHTHALENE	28	280	0.053 U	0.017 U	0.016 U	0.82	0.016 U	28	0.018 J	0.017 U	0.052 U
ACENAPHTHENE	20	200	0.011 U	0.011 U	0.01 U	0.011 U	0.01 U	0.01 U	0.011 U	0.011 U	0.01 U
ANTHRACENE	2100	21000	0.01 U	0.01 U	0.0098 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.01 U	0.0099 U
BENZO(A)ANTHRACENE	0.05	5	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.049 J	0.042 J
BENZO(A)PYRENE	0.2	20	0.01 U	0.01 U	0.0098 U	0.01 U	0.0098 U	0.0099 U	0.01 U	0.01 U	0.0099 U
BENZO(B)FLUORANTHENE	0.05	5	0.017 U	0.017 U	0.016 U	0.017 U	0.016 U	0.017 U	0.017 U	0.021 J	0.022 J
BENZO(G,H,I)PERYLENE	210	2100	0.014 U	0.014 U	0.013 U	0.014 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U
BENZO(K)FLUORANTHENE	0.5	50	0.014 U	0.014 U	0.013 U	0.014 U	0.013 U	0.014 U	0.014 U	0.014 U	0.014 U
CHRYSENE	4.8	480	0.0096 U	0.0098 U	0.0093 U	0.0098 U	0.0093 U	0.0094 U	0.0098 U	0.0098 U	0.0094 U
FLUORANTHENE	280	2800	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
FLUORENE	280	2800	0.013 U	0.014 U	0.013 U	0.014 U	0.013 U	0.12	0.014 U	0.014 U	0.013 U
NAPHTHALENE	14	140	0.053 U	0.054 U	0.052 U	1.5	0.087 U	**41**	0.054 U	0.021 U	0.095 U
PHENANTHRENE	210	2100	0.015 U	0.015 U	0.014 U	0.015 U	0.014 U	0.014 U	0.015 U	0.015 U	0.014 U
PYRENE	210	2100	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.025 J	0.027 J
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	160 U	160 U	160 U	3400	180 U	140 U	180 U	190 U	410 U
Inorganics (ug/L)											
IRON	300	3000	**318**	244	**720**	**1120**	**478**	**1250**	**32600**	**29800**	**23900**
LEAD	15	150	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	8.8	**16.3**
MANGANESE	50	500	3.0 U	3.0 U	3.0 U	10.1	4.7	23.7	**562**	**840**	**487**
Inorganics, Filtered (ug/L)											
IRON	300	3000	**328**	197	**626**	**976**	**462**	**966**	**24400**	**8110**	**12400**
MANGANESE	50	500	3 U	3 U	3 U	9.2	4.8	21.2	**478**	**336**	**293**
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE-N	10000	100000	NS	NS	NS	NS	NS	NS	NS	NS	NS
ORTHOPHOSPHATE-P	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
SULFATE	250000	2500000	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL ORGANIC CARBON	NC	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

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MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 7 OF 8

CONSTITUENT	GCTL	NADSC	INTERMEDIATE							
			NASP18-							
			MW45I-0406	MW46I-0406	MW47I-0406	MW48I-0406	MW50I-0506	MW53I-0406	MW54I-0406	MW57I-0406
			04/25/2006	04/25/2006	04/27/2006	04/25/2006	05/02/2006	04/27/2006	04/27/2006	04/27/2006
Volatile Organics (ug/L)										
1,2,4-TRICHLOROBENZENE	70	700	0.57 U	0.57 U	0.57 U	0.57 U	0.36 U	0.57 U	0.57 U	0.57 U
1,2-DICHLOROETHANE	3	300	0.57 J	0.13 U	0.13 U	0.13 U	0.2 U	0.13 U	0.13 U	0.13 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.24 U	0.24 U	0.24 U	0.24 U	0.28 U	0.24 U	0.24 U	0.24 U
BENZENE	1	100	**12**	0.81 J	0.18 J	0.12 U	0.29 U	0.12 U	**13**	0.12 U
CHLOROFORM	70	700	0.13 U	0.13 U	0.13 U	0.13 U	0.21 U	0.13 U	0.13 U	0.13 U
CIS-1,2-DICHLOROETHENE	70	700	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.14 U	0.72 J	0.14 U
ETHYLBENZENE	30	300	17	0.35 U	0.35 U	0.35 U	0.3 U	0.35 U	0.35 U	0.35 U
METHYL TERT-BUTYL ETHER	20	200	0.1 U	0.1 U	0.1 U	0.1 U	0.24 U	0.1 U	0.1 U	0.1 U
TOLUENE	40	400	0.19 J	0.28 J	0.35 J	0.16 U	0.3 U	0.16 U	0.16 U	0.16 U
TOTAL XYLENES	20	200	**26**	0.47 U	0.47 U	0.47 U	0.33 U	0.47 U	8.5	0.47 U
TRANS-1,2-DICHLOROETHENE	100	1000	0.15 U	0.15 U	0.15 U	0.15 U	0.22 U	0.15 U	0.15 U	0.15 U
TRICHLOROETHENE	3	300	0.23 U	0.23 U	0.23 U	0.23 U	0.27 U	0.23 U	0.23 U	0.23 U
Volatile Gases (ug/L)										
ETHANE	NC	NC	NS	NS	NS	NS	4.7	NS	NS	NS
ETHENE	NC	NC	NS	NS	NS	NS	1.9	NS	NS	NS
METHANE	NC	NC	NS	NS	NS	NS	45	NS	NS	NS
PAHs (ug/L)										
1-METHYLNAPHTHALENE	28	280	0.01 U	0.01 U	0.01 U	0.01 U	0.011 U	0.032 J	0.01 U	0.01 U
2-METHYLNAPHTHALENE	28	280	0.016 U	0.017 U	0.017 U	0.016 U	0.017 U	0.027 J	0.016 U	0.017 U
ACENAPHTHENE	20	200	0.01 U	0.01 U	0.01 U	0.01 U	0.011 U	0.01 U	0.01 U	0.01 U
ANTHRACENE	2100	21000	0.0095 U	0.0099 U	0.0099 U	0.0098 U	0.01 U	0.0097 U	0.0098 U	0.0099 U
BENZO(A)ANTHRACENE	0.05	5	**0.061**	0.08	0.026 J	0.011 U	0.011 U	0.011 U	**0.016 J**	**0.076**
BENZO(A)PYRENE	0.2	20	0.0095 U	0.039 J	0.013 J	0.0098 U	0.01 U	0.0097 U	0.0098 U	0.0099 U
BENZO(B)FLUORANTHENE	0.05	5	0.026 J	**0.073**	0.018 J	0.016 U	0.017 U	0.016 U	0.016 U	**0.087**
BENZO(G,H,I)PERYLENE	210	2100	0.013 U	0.014 U	0.02 J	0.013 U	0.014 U	0.013 U	0.013 U	0.014 U
BENZO(K)FLUORANTHENE	0.5	50	0.013 U	0.036 J	0.014 U	0.013 U	0.014 U	0.013 U	0.013 U	0.014 U
CHRYSENE	4.8	480	0.015 J	0.034 J	0.0094 U	0.0093 U	0.0096 U	0.0092 U	0.0093 U	0.0094 U
FLUORANTHENE	280	2800	0.03 J	0.018 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
FLUORENE	280	2800	0.012 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
NAPHTHALENE	14	140	0.05 U	0.02 U	0.052 U	0.02 U	0.065 U	0.14 U	0.056 U	0.052 U
PHENANTHRENE	210	2100	0.014 U	0.014 U	0.014 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U
PYRENE	210	2100	0.11	0.022 J	0.052 J	0.011 U	0.011 U	0.011 U	0.011 U	0.047 J
Petroleum Hydrocarbons (ug/L)										
TPH (C08-C40)	5000	50000	530 U	180 U	180 U	210 U	160 U	180 U	180 U	180 U
Inorganics (ug/L)										
IRON	300	3000	**3190**	**25100**	**23500**	**19800**	**13600**	**8350**	**22100**	**26200**
LEAD	15	150	2.4	12.3	5.6	1.5 U	2.2	1.5 U	1.5 U	13.2
MANGANESE	50	500	29.5	**633**	**1200**	**872**	**404**	**140**	**323**	**558**
Inorganics, Filtered (ug/L)										
IRON	300	3000	**3430**	**3190**	**4350**	**19700**	**7480**	**7230**	**12900**	**8970**
MANGANESE	50	500	38.9	**139**	**695**	**855**	**304**	**128**	**241**	**301**
Miscellaneous Parameters (ug/L)										
ALKALINITY	NC	NC	NS	NS	NS	NS	15000	NS	NS	NS
NITRATE-N	10000	100000	NS	NS	NS	NS	210	NS	NS	NS
ORTHOPHOSPHATE-P	NC	NC	NS	NS	NS	NS	13 J	NS	NS	NS
SULFATE	250000	2500000	NS	NS	NS	NS	2800 J	NS	NS	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	NS	NS	NS	1500 J	NS	NS	NS
TOTAL ORGANIC CARBON	NC	NC	NS	NS	NS	NS	7400	NS	NS	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

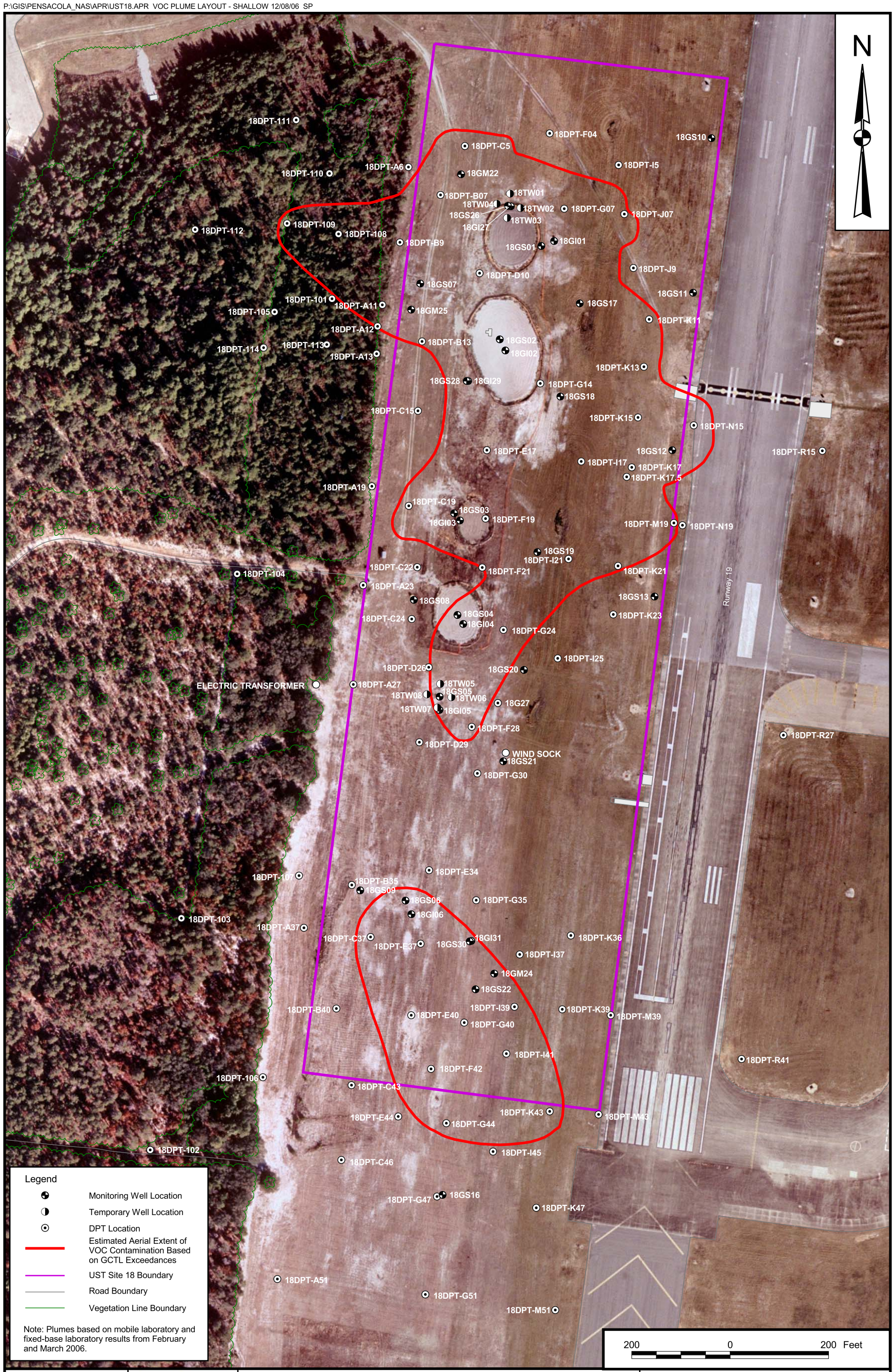
TABLE 4-4
SUMMARY OF FIXED-BASE LABORATORY RESULTS
MONITORING WELL DATA (2006)
UST SITE 18
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA
PAGE 8 OF 8

CONSTITUENT	GCTL	NADSC	INTERMEDIATE		DEEP						
					NASP18-						
			MW58I-0506	MW38-0506	MW34D-0406	MW43D-0406	MW55D-0406	MW39-0506	MW39-0506-D	MW40-0506	MW51-0506
			05/02/2006	05/03/2006	04/27/2006	04/25/2006	04/27/2006	05/02/2006	05/02/2006	05/02/2006	05/02/2006
Volatile Organics (ug/L)											
1,2,4-TRICHLOROBENZENE	70	700	0.36 U	0.14 U	0.57 U	0.57 U	0.57 U	0.36 U	0.36 U	0.36 U	0.36 U
1,2-DICHLOROETHANE	3	300	0.2 U	0.15 U	0.13 U	0.13 U	0.13 U	0.2 U	0.2 U	0.2 U	0.2 U
2-CHLOROETHYL VINYL ETHER	NC	NC	0.28 U	0.53 U	0.24 UR	0.24 UR	0.24 U	0.28 UR	0.28 U	0.28 U	0.28 U
BENZENE	1	100	0.29 U	**2.4**	0.12 U	**7.1**	0.12 U	0.29 U	0.29 U	**19**	0.29 U
CHLOROFORM	70	700	0.93 J	0.15 U	0.13 U	0.13 U	0.13 U	0.21 U	0.21 U	0.21 U	0.21 U
CIS-1,2-DICHLOROETHENE	70	700	0.28 U	0.44 U	0.14 U	0.14 U	0.14 U	0.28 U	0.28 U	0.36 J	0.28 U
ETHYLBENZENE	30	300	0.3 U	0.26 J	0.35 U	0.35 U	0.35 U	0.3 U	0.3 U	0.3 U	0.3 U
METHYL TERT-BUTYL ETHER	20	200	0.24 U	0.17 U	0.1 U	0.1 U	0.1 U	0.24 U	0.24 U	0.24 U	0.24 U
TOLUENE	40	400	0.3 U	0.25 J	0.16 U	0.16 U	0.16 U	0.4 J	0.35 J	0.99 J	0.3 U
TOTAL XYLENES	20	200	0.33 U	0.41 J	0.47 U	0.47 U	0.47 U	0.33 U	0.33 U	1.9	0.33 U
TRANS-1,2-DICHLOROETHENE	100	1000	0.22 U	0.4 U	0.15 U	0.15 U	0.15 U	0.22 U	0.22 U	0.22 U	0.22 U
TRICHLOROETHENE	3	300	0.27 U	0.28 U	0.23 U	0.23 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U
Volatile Gases (ug/L)											
ETHANE	NC	NC	NS	10	NS	NS	NS	NS	NS	27	NS
ETHENE	NC	NC	NS	5.2	NS	NS	NS	NS	NS	10	NS
METHANE	NC	NC	NS	980	NS	NS	NS	NS	NS	650	NS
PAHs (ug/L)											
1-METHYLNAPHTHALENE	28	280	0.012 U	0.039 U	0.011 U	0.01 U	0.01 U	0.022 U	0.019 U	0.01 U	0.01 U
2-METHYLNAPHTHALENE	28	280	0.019 U	0.016 U	0.017 U	0.017 U	0.016 U	0.028 J	0.026 J	0.016 U	0.017 U
ACENAPHTHENE	20	200	0.012 U	0.01 U	0.011 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
ANTHRACENE	2100	21000	0.011 U	0.0097 U	0.01 U	0.0099 U	0.0097 U	0.0097 U	0.0099 U	0.0098 U	0.0099 U
BENZO(A)ANTHRACENE	0.05	5	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
BENZO(A)PYRENE	0.2	20	0.011 U	0.0097 U	0.01 U	0.0099 U	0.0097 U	0.0097 U	0.0099 U	0.0098 U	0.0099 U
BENZO(B)FLUORANTHENE	0.05	5	0.019 U	0.016 U	0.017 U	0.017 U	0.016 U	0.016 U	0.017 U	0.016 U	0.017 U
BENZO(G,H,I)PERYLENE	210	2100	0.015 U	0.013 U	0.014 U	0.014 U	0.013 U	0.013 U	0.014 U	0.013 U	0.014 U
BENZO(K)FLUORANTHENE	0.5	50	0.015 U	0.013 U	0.014 U	0.014 U	0.013 U	0.013 U	0.014 U	0.013 U	0.014 U
CHRYSENE	4.8	480	0.01 U	0.0092 U	0.0098 U	0.0094 U	0.0092 U	0.0092 U	0.0094 U	0.0093 U	0.0094 U
FLUORANTHENE	280	2800	0.014 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.016 J	0.012 U
FLUORENE	280	2800	0.015 U	0.013 U	0.014 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U	0.013 U
NAPHTHALENE	14	140	0.081 U	0.1 U	0.054 U	0.052 U	0.051 U	0.064 U	0.073 U	0.08 U	0.039 U
PHENANTHRENE	210	2100	0.016 U	0.014 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
PYRENE	210	2100	0.012 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
Petroleum Hydrocarbons (ug/L)											
TPH (C08-C40)	5000	50000	120 U	880	180 U	170 U	160 U	250 U	410 U	2000	160 U
Inorganics (ug/L)											
IRON	300	3000	**11800**	**22000**	**3470**	**18300**	**1010**	**398**	**401**	**8660**	**6030**
LEAD	15	150	1.5 U	5.9	1.5 U	2.4	1.5 U	1.5 U	1.5 U	5.4	1.5 U
MANGANESE	50	500	**233**	**893**	40.1	**364**	9.0	8.3	9.7	**584**	**63.8**
Inorganics, Filtered (ug/L)											
IRON	300	3000	**7620**	**10500**	**2890**	**12000**	**848**	30 U	30 U	**1590**	**4880**
MANGANESE	50	500	**187**	**645**	37.7	**244**	16.6	3 U	3 U	**187**	**57.2**
Miscellaneous Parameters (ug/L)											
ALKALINITY	NC	NC	NS	42900	NS	NS	NS	NS	NS	152000	NS
NITRATE-N	10000	100000	NS	50 U	NS	NS	NS	NS	NS	50 U	NS
ORTHOPHOSPHATE-P	NC	NC	NS	470	NS	NS	NS	NS	NS	10 U	NS
SULFATE	250000	2500000	NS	1400 J	NS	NS	NS	NS	NS	11000	NS
TOTAL KJELDAHL NITROGEN	NC	NC	NS	5600	NS	NS	NS	NS	NS	1400 J	NS
TOTAL ORGANIC CARBON	NC	NC	NS	14100	NS	NS	NS	NS	NS	46200	NS

Notes:
Bold shaded cell = eedance of FDEP GCTLs
J = Estimated value.
U = Less than laboratory method detection limit.
NC = No concentration available.
µg/L = micrograms per liter

NS = Not sampled
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration

P:\GIS\PENSACOLA_NAS\APR\UST18.APR VOC PLUME LAYOUT - SHALLOW 12/08/06 SP



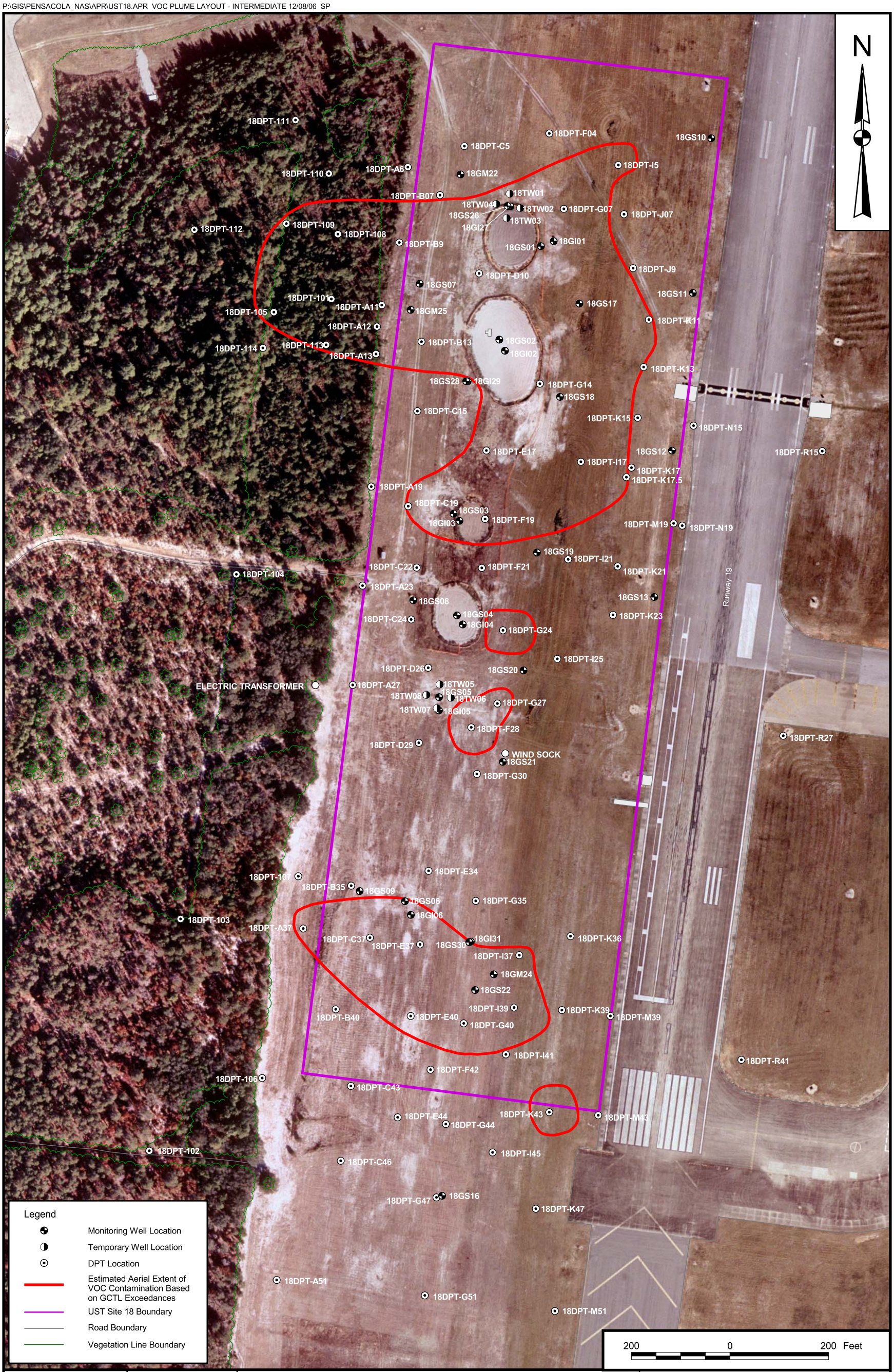
DRAWN BY	DATE
S. PAXTON	10/13/06
CHECKED BY	DATE
K. WIMBLE	12/08/06
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

NAVFAC

ESTIMATED VOC CONTAMINATION
DPT SAMPLES BETWEEN 10 AND 20 FEET BLS
UST SITE 18
NAS PENSACOLA
PENSACOLA, FLORIDA

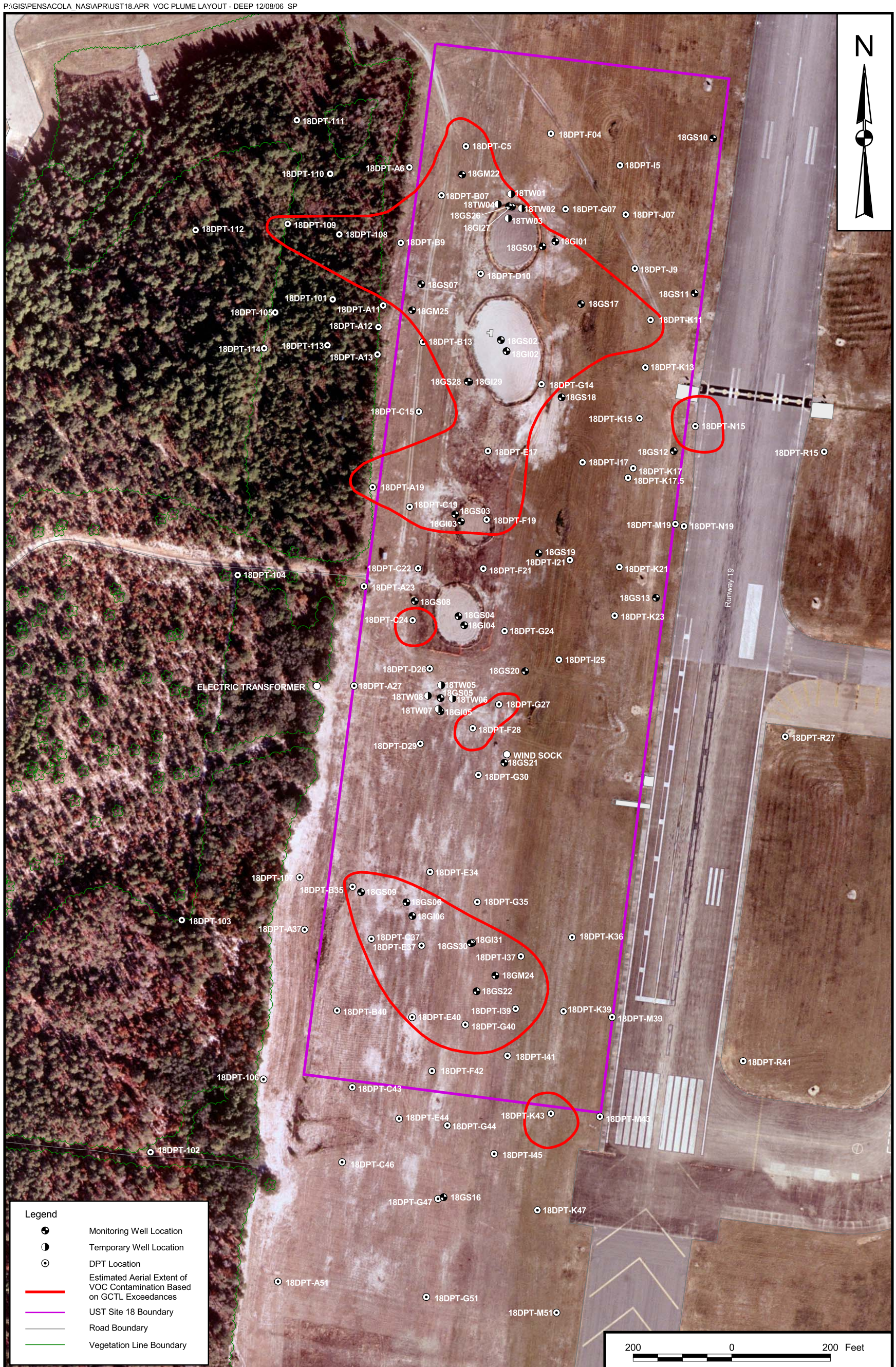
CONTRACT NUMBER	
CTO 0005	
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
DRAWING NO.	REV
FIGURE 4 - 2	0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR VOC PLUME LAYOUT - INTERMEDIATE 12/08/06 SP



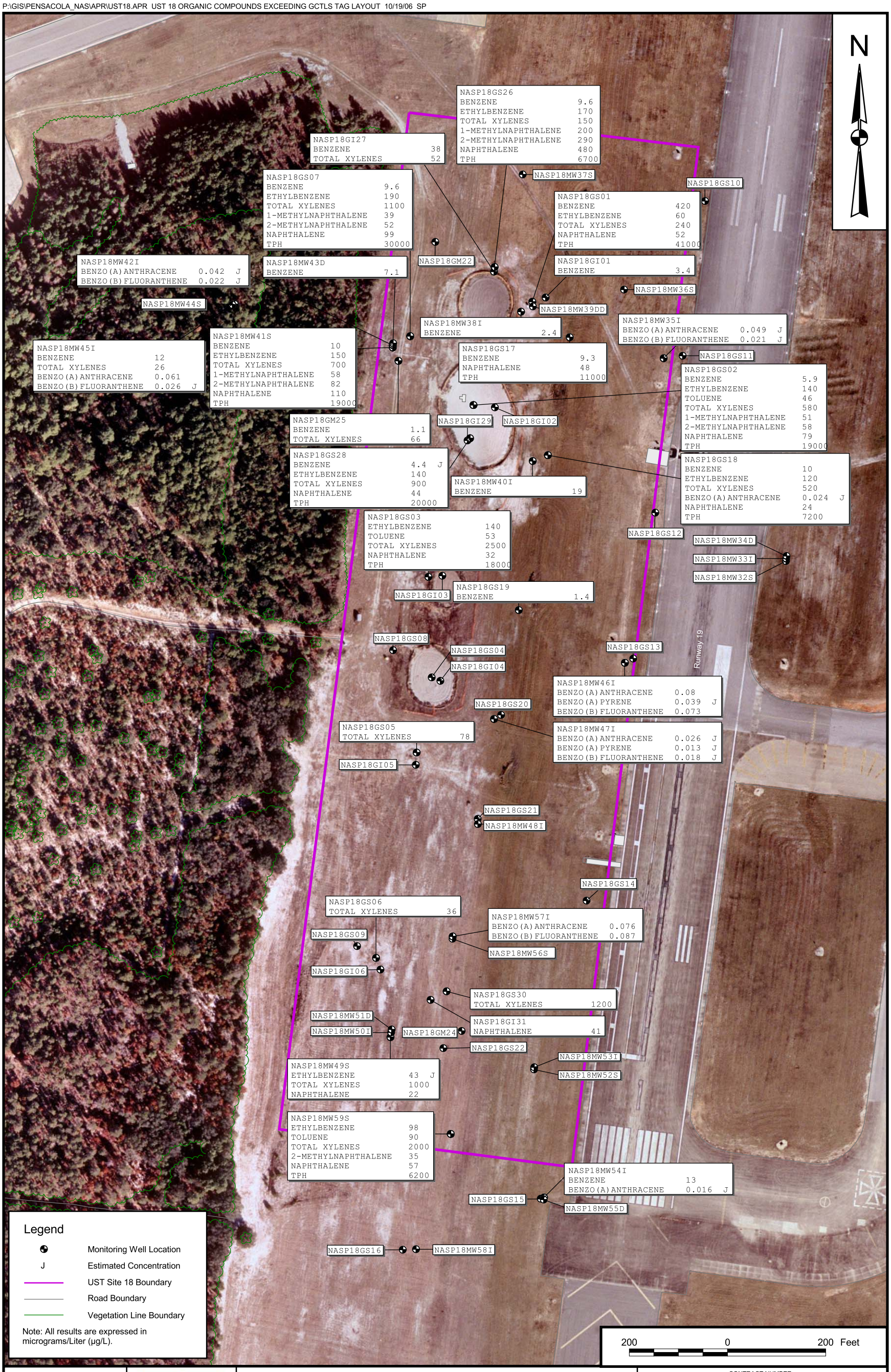
DRAWN BY S. PAXTON	DATE 10/13/06	ESTIMATED VOC CONTAMINATION DPT SAMPLES BETWEEN 20 AND 40 FEET BLS UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 12/08/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 3 / REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR VOC PLUME LAYOUT - DEEP 12/08/06 SP



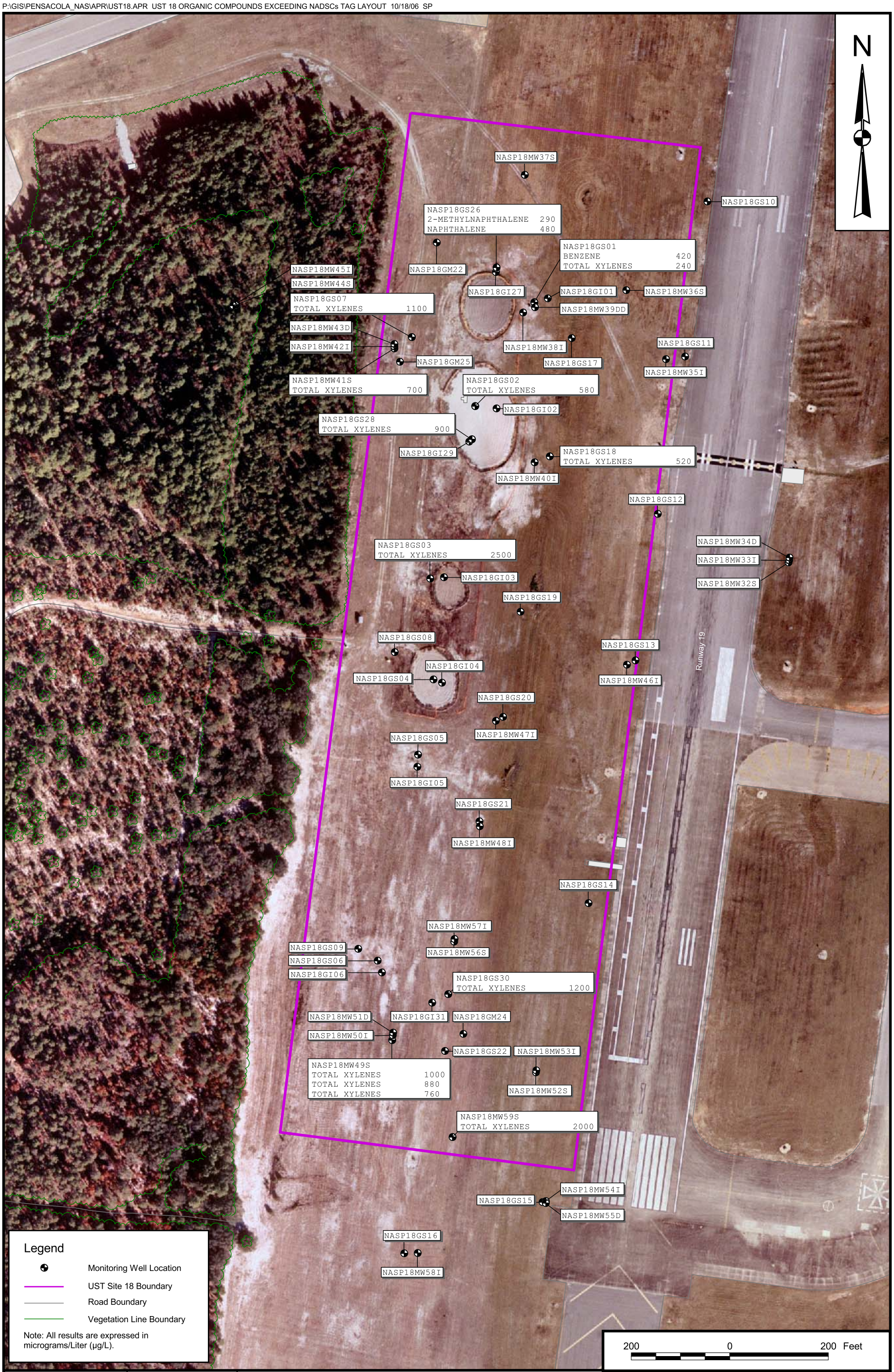
DRAWN BY S. PAXTON	DATE 10/13/06	ESTIMATED VOC CONTAMINATION DPT SAMPLES BELOW 40 FEET BLS UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 12/08/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 4 / REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR UST 18 ORGANIC COMPOUNDS EXCEEDING GCTLS TAG LAYOUT 10/19/06 SP



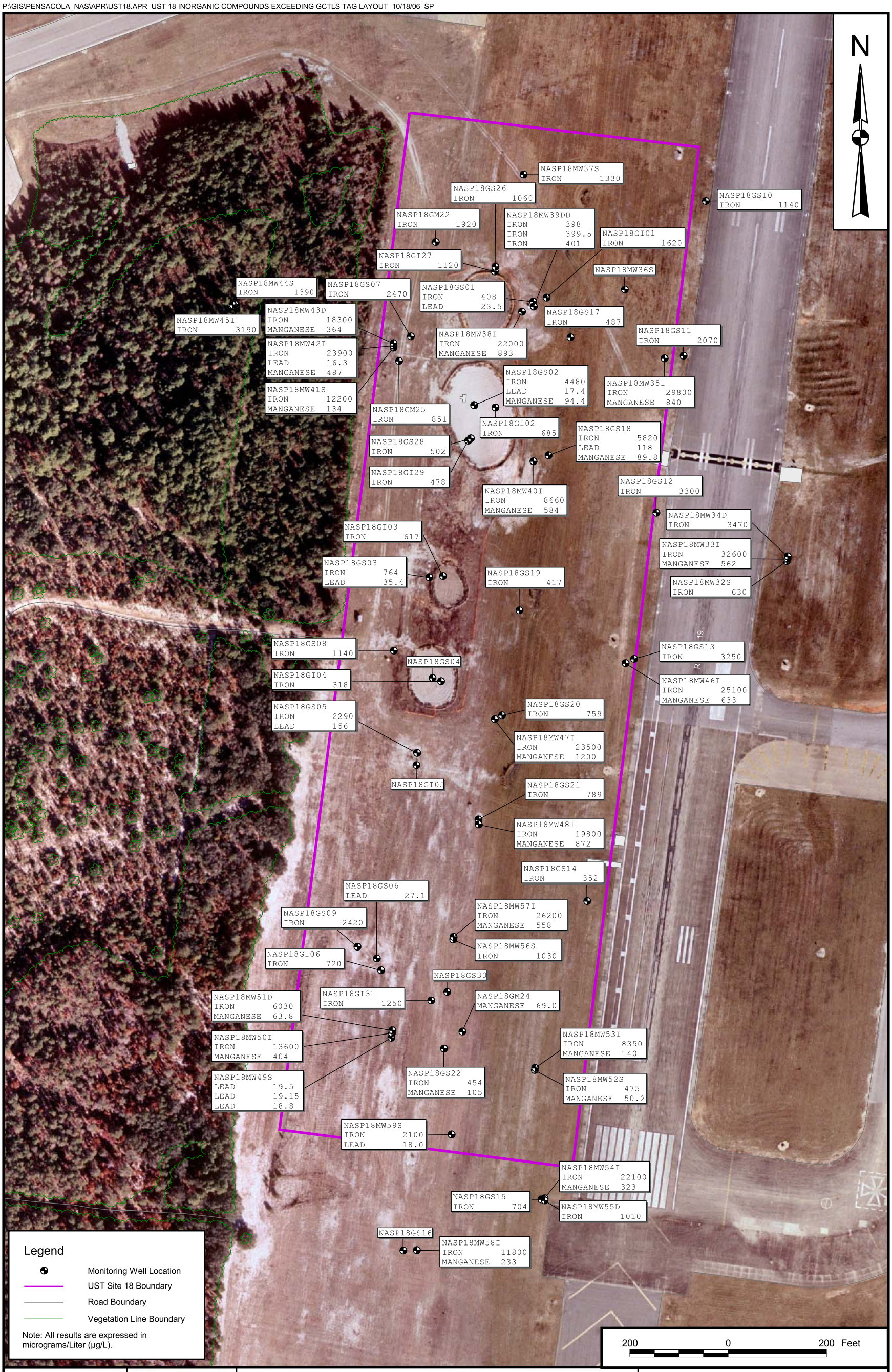
DRAWN BY S. PAXTON	DATE 8/15/06	MONITORING WELLS WITH ORGANIC COMPOUNDS IN EXCEEDANCE OF FLORIDA GCTLs UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 10/19/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 5 REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR UST 18 ORGANIC COMPOUNDS EXCEEDING NADSCs TAG LAYOUT 10/18/06 SP



DRAWN BY	DATE			CONTRACT NUMBER
S. PAXTON	8/15/06	MONITORING WELLS WITH ORGANIC COMPOUNDS		CTO 0005
CHECKED BY	DATE	IN EXCEEDANCE OF FLORIDA NADSCs		APPROVED BY / DATE
K. WIMBLE	10/18/06	UST SITE 18		APPROVED BY / DATE
COST/SCHEDULE-AREA		NAS PENSACOLA		DRAWING NO. FIGURE 4 - 6 / REV 0
SCALE AS NOTED		PENSACOLA, FLORIDA		

P:\GIS\PENSACOLA_NAS\APR\UST18.APR UST 18 INORGANIC COMPOUNDS EXCEEDING GCTLS TAG LAYOUT 10/18/06 SP



DRAWN BY S. PAXTON	DATE 8/15/06	MONITORING WELLS WITH INORGANIC COMPOUNDS IN EXCEEDANCE OF FLORIDA GCTLs UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 10/18/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 7 REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR UST 18 INORGANIC COMPOUNDS EXCEEDING NADSCs TAG LAYOUT 10/18/06 SP

DRAWN BY S. PAXTON	DATE 8/15/06	MONITORING WELLS WITH INORGANIC COMPOUNDS IN EXCEEDANCE OF FLORIDA NADSCs UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 10/18/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 8 REV 0

SHALLOW MONITORING WELL ANALYTICAL SUMMARY

CHEMICAL	MAX CONCENTRATION (µg/L)	FDEP GCTL (µg/L)	NO. OF SAMPLES WITH EXCEEDANCES
Benzene	420	1	9
Ethylbenzene	190	30	10
Toluene	90	40	3
Total Xylenes	2,500	20	14
1-Methylnaphthalene	200	28	4
2-Methylnaphthalene	290	28	5
Naphthalene	480	14	12
Iron	12,200	300	30
Lead	156	15	10
Manganese	134	50	6
TPH	41,000	500	15

4.1.6 Intermediate Monitoring Well Groundwater Samples

Two VOCs (benzene and total xylenes) were detected in the intermediate groundwater samples in excess of FDEP GCTLs. The intermediate groundwater samples also contained FDEP GCTL exceedances of PAH compounds: naphthalene, benzo(a)anthracene, and benzo(b)fluoranthene; however, the total benzo(a)pyrene equivalents for these PAH compounds, as required by FDEP, were less than GCTLs. Lead was detected in excess of FDEP GCTLs in one intermediate groundwater monitoring well. Iron was detected in excess of GCTLs in 21 intermediate wells. Manganese was detected in excess of GCTLs in 12 intermediate wells. See Figure 4-5 and 4-6 for organic (VOCs and PAHs) GCTL and NADSC exceedances, respectively. See Figure 4-7 and 4-8 for inorganic (lead, iron, manganese) GCTL and NADSC exceedances, respectively. A summary of the GCTL exceedances is provided below.

INTERMEDIATE MONITORING WELL ANALYTICAL SUMMARY

CHEMICAL	MAX CONCENTRATION (µg/L)	FDEP GCTL (µg/L)	NO. OF SAMPLES WITH EXCEEDANCES
Benzene	38	1	6
Total Xylenes	26	20	2
Naphthalene	41	14	1
Benzo(a)anthracene	0.076	0.05	3
Benzo(b)fluoranthene	0.087	0.05	2
Iron	32,600	300	21
Lead	16.3	15	1
Manganese	1,200	50	12

4.1.7 Deep Monitoring Well Groundwater Samples

Four deep monitoring wells were sampled during the most recent sampling event (May 2006). One VOC (benzene) was detected at 18MW43D at a concentration of 7.1 µg/L, in excess of its FDEP GCTL of 1 µg/L. Iron was detected in excess of GCTLs in all six deep wells. Manganese was detected in excess of GCTLs in three deep wells. Please note that 18MW51, which is located approximately 50 ft south of 18DPT-E37 and located approximately 100 ft south-southeast of 18DPT-C37 did not show the exceedances reflected in the DPT mobile laboratory results discussed in Section 4.1.1. See Figure 4-1 for the location of the groundwater exceedances.

INTERMEDIATE MONITORING WELL ANALYTICAL SUMMARY

CHEMICAL	MAX CONCENTRATION (µg/L)	FDEP GCTL (µg/L)	NO. OF SAMPLES WITH EXCEEDANCES
Benzene	7.1	1	1
Iron	18,300	300	6
Manganese	584	50	3

4.2 DISCUSSION

Data collected during this site assessment report addendum were used to evaluate the current site conditions. The significant findings from the supplemental site assessment addendum activities are discussed below.

4.2.1 Groundwater Assessment

Groundwater samples were collected at 85 DPT boring locations and 35 monitoring wells for mobile laboratory analysis during the assessment in February and March 2006. Twenty-eight new wells were installed following evaluation of the mobile laboratory data. These 28 wells along with 37 existing site wells were sampled and submitted to a fixed based laboratory for analysis in April and May 2006.

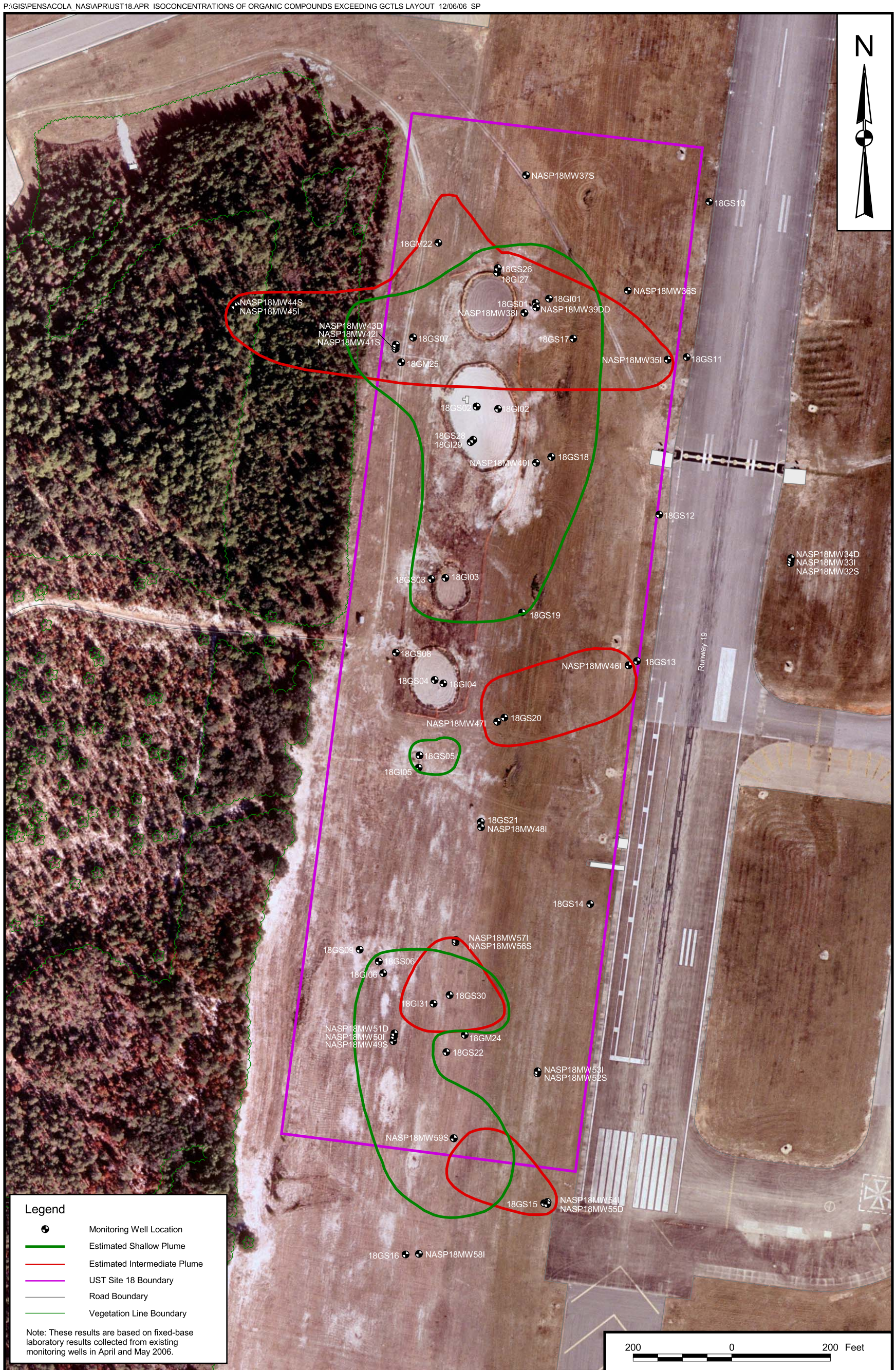
Based on the results of the groundwater assessment, concentrations of dissolved petroleum constituents in excess of FDEP GCTLs are present from the water table (approximately 3 ft bls) to approximately 60 ft bls. Two main plumes are present in the northern and southern areas of the site. The northern plume has GCTL exceedances to 60 ft bls, but the southern plume does not have any exceedances in the deep aquifer. These two plumes are depicted on Figure 4-9 and represent the boundary for GCTL exceedances. Downward migration of the shallow groundwater contamination into the intermediate zone (20 to 40 ft bls) is present and is also depicted on Figure 4-9. One deep well (MW43D – screened above the thin clay layer) in the northern plume had slight benzene GCTL exceedances. This exceedance indicates that the plume migrated to the top of the thin clay layer (60 ft bls). Monitoring well MW39D, installed below the thin clay layer, had no reported exceedances of GCTLs.

The GCTL exceedances represented in Figure 4-9 were compared to NADSC values. Figure 4-10 represents the aerial extent of contamination that exceeds NADSCs values.

4.2.2 Source of Hydrocarbons

The major source of the impacted groundwater at UST Site 18 is the former fire fighting training activities that were conducted in the former fire pit area. A secondary source of contamination was not identified west of the northern plume during DPT “step-outs;” however, the area of contamination was delineated. The DPT assessment identified GCTL exceedances in the wooded area directly west of NASP18-GS01. Installation and sampling of monitoring wells NASP18-MW41S, NASP18-MW42I, NASP18-MW43D, NASP18-MW44S, and NASP18-MW45I confirmed the DPT results.

P:\GIS\PENSACOLA_NAS\APR\UST18.APR ISOCONCENTRATIONS OF ORGANIC COMPOUNDS EXCEEDING GCTLS LAYOUT 12/06/06 SP



DRAWN BY S. PAXTON	DATE 8/31/06	ESTIMATED PLUME WITH ORGANIC COMPOUNDS IN EXCEEDANCE OF FLORIDA GCTLs UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 12/06/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 9 REV 0

P:\GIS\PENSACOLA_NAS\APR\UST18.APR ISOCONCENTRATIONS OF ORGANIC COMPOUNDS EXCEEDING NADSCs LAYOUT 12/06/06 SP

DRAWN BY S. PAXTON	DATE 8/31/06	ESTIMATED PLUME WITH ORGANIC COMPOUNDS IN EXCEEDANCE OF FLORIDA NADSCs UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER CTO 0005
CHECKED BY K. WIMBLE	DATE 12/06/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED	NAVFAC		DRAWING NO. FIGURE 4 - 10 REV 0

5.0 CONCLUSIONS AND RECOMMENDATION

The conclusions based on the data collected during the supplemental site assessment performed by TtNUS at UST Site 18, Former Fire Fighting Training Area, are summarized as follows:

- The low permeability clay unit identified approximately 60 feet (ft) below land surface (bls) is not believed to be continuous across the entire site. The unit ranges in thickness from 2 to 4 ft and is not present at the southern portion of the site. However, a deeper clay unit at approximately 82 ft bls is believed to act as an aquitard across the site throughout the entire investigation area.

- General horizontal groundwater flow is across the site toward the south-southeast. A downward vertical gradient in groundwater flow exists at UST Site 18.

- LNAPL was present in monitoring well NASP18-GS26. LNAPL was not detected in any other on-site monitor wells or in temporary wells installed within 25 ft of monitoring wells NASP18-GS26 and NASP18-GS05.

- Petroleum contaminants, including as benzene, toluene, ethylbenzene, and total xylenes (BTEX), detected at concentrations above the Florida Department of Environmental Protection (FDEP) GCTLs are present in the groundwater from the water table (approximately 3 ft bls) to approximately 60 ft bls. The majority of contamination is present in the shallow groundwater zone from the water table to approximately 20 feet below land surface (water table to 20 ft bls). Contamination was reported observed in the groundwater at approximately 75 ft bls between the two clay units identified in the northern portion of the site. Contamination of the deeper groundwater flow zone (approximately 62 ft bls) was not reported in the southern portion of the site, where the upper clay unit is believed to be absent.

- Two separate groundwater plumes were identified on the site. The largest plume is present over the northern and central portions of the site and is present down to 60 ft bls. A smaller plume extends over the southern portion of the site and extends vertically to approximately 40 ft bls. Both plumes contain contamination concentrations exceeding the GCTLs and Natural Attenuation Default Source Concentration (NADSCs) values.

- Iron and manganese were detected above FDEP GCTLs in most of the shallow, intermediate, and deep groundwater monitoring wells.

- Groundwater contamination was identified upgradient (northwest) of the previously defined site activity area. It is unclear if the exceedances in this area are related to the fire fighting training activities or from additional activity previously conducted in the vicinity.

Based upon the data presented in this SARA, petroleum constituents are present at concentrations that exceed both FDEP GCTL and NADSC values. The highest concentrations are present directly under the areas previously used for fire fighting training activities. The groundwater contamination is moving in a downgradient direction, which is to be expected.

Because impacted groundwater is present in excess of NADSC values, TtNUS recommends that a RAP addendum be completed for UST Site 18. In addition, TtNUS recommends that immediate remediation of free product occur by bailing or using sorbent materials in the monitoring well NASP18-GS26.

REFERENCES

CH2MHILL (CH2M Hill Constructors, Inc.), 2003. Groundwater Monitoring Report Fourth Quarter 2002 UST Site 18, NAS Pensacola, Florida.

Ensafe (EnSafe Inc.), 1997. Remedial Action Plan UST 18 Naval Air Station Pensacola, Florida.

EAH (EnSafe/Allen & Hoshall), 1996. Contamination Assessment Report UST 18, NAS Pensacola, Florida.

TtNUS (Tetra Tech NUS, Inc.), 2003. Enhanced Natural Attenuation Treatability Study Work Plan UST Site 18, NAS Pensacola, Florida.

TtNUS, 2005. Treatability Study Evaluation Report UST Site 18, NAS Pensacola, Florida.

APPENDIX A

HISTORICAL FIGURES

LEGEND

Monitoring Well Location ◉

Notes:

1. All units are µg/L.
2. J = Estimated Value
3. NE = No exceedances
4. The FDEP Groundwater Cleanup Target Levels are:

Benzene	1
Toluene	40
Ethylbenzene	30
Xylenes (total)	20
Naphthalene	20
1-Methylnaphthalene	20
2-Methylnaphthalene	20
TRPH	5000
Lead	15

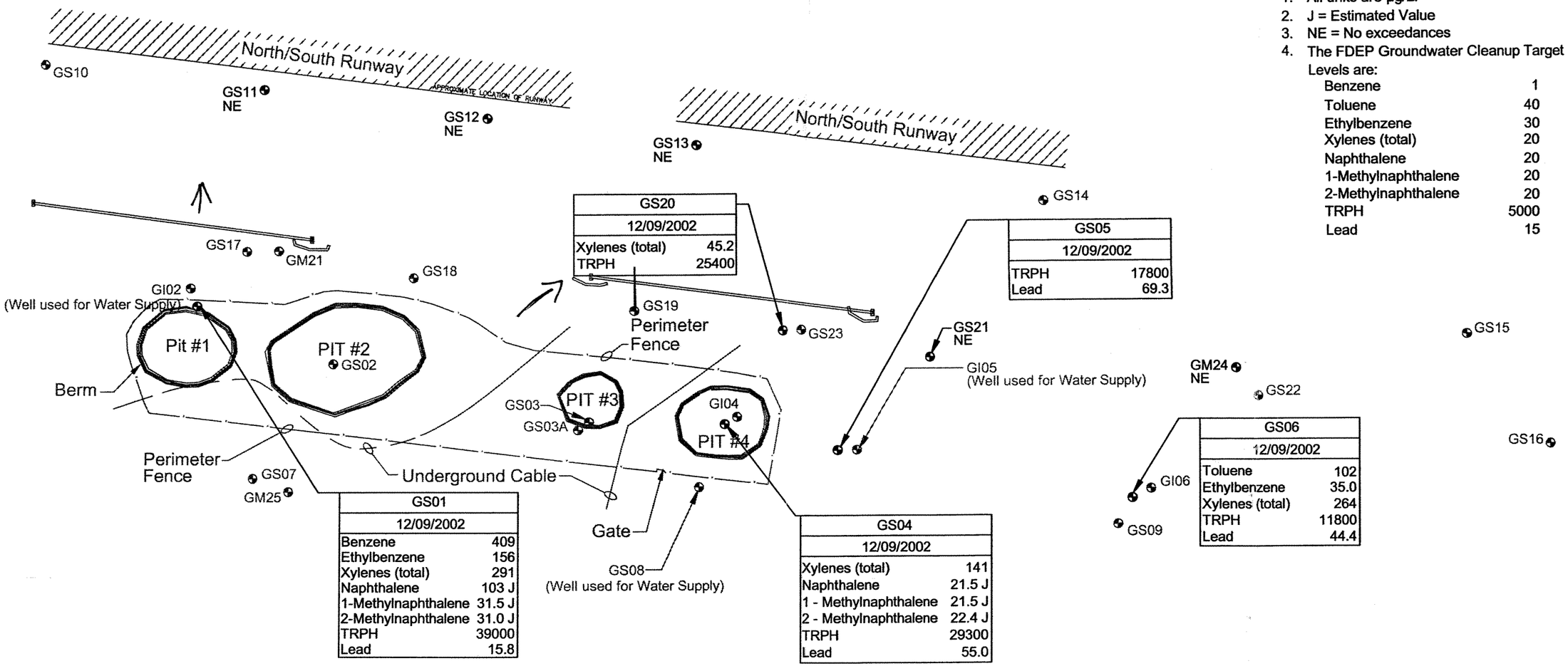


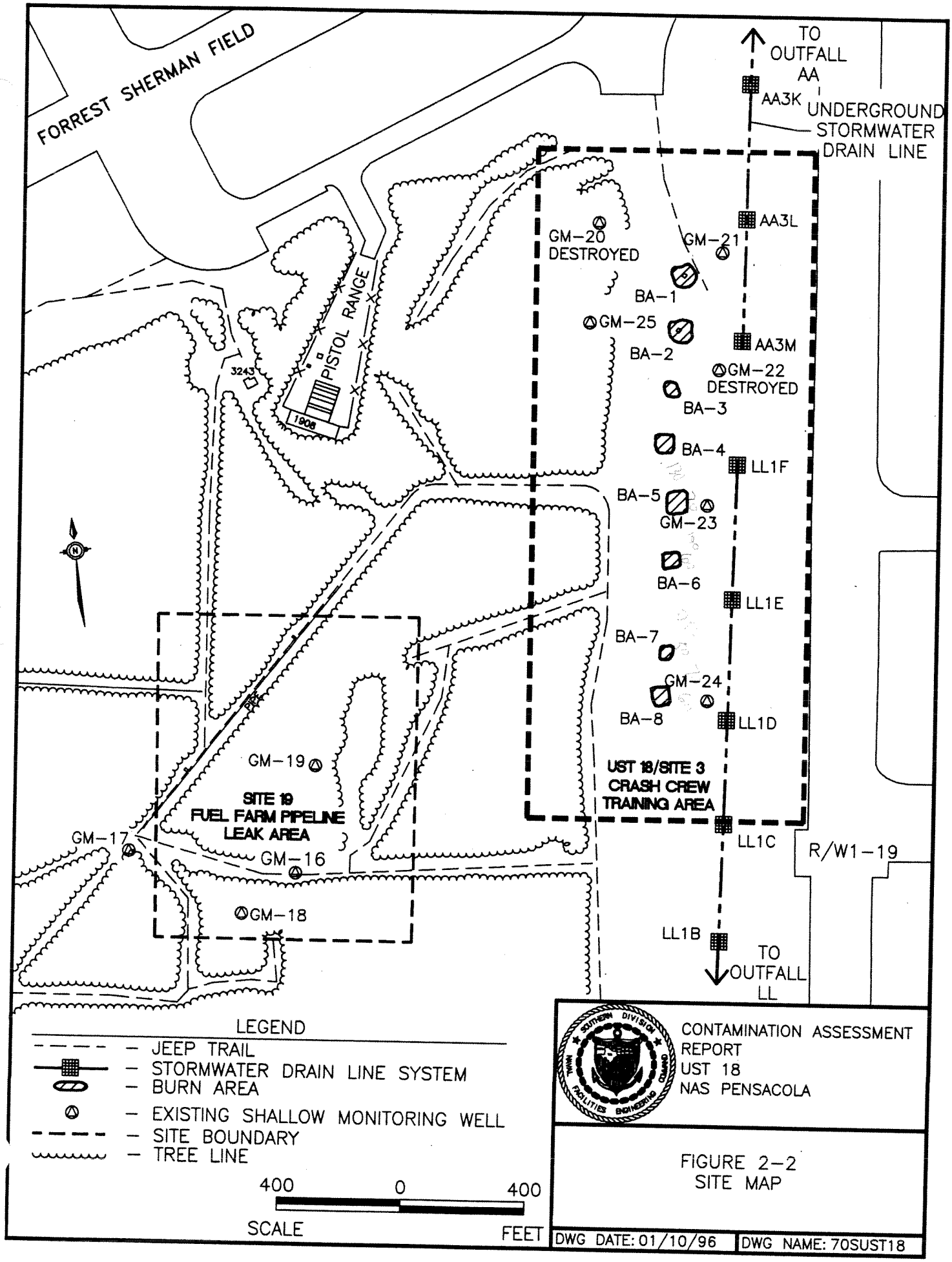
FIGURE 2-3

COCs in Groundwater (December 2002)

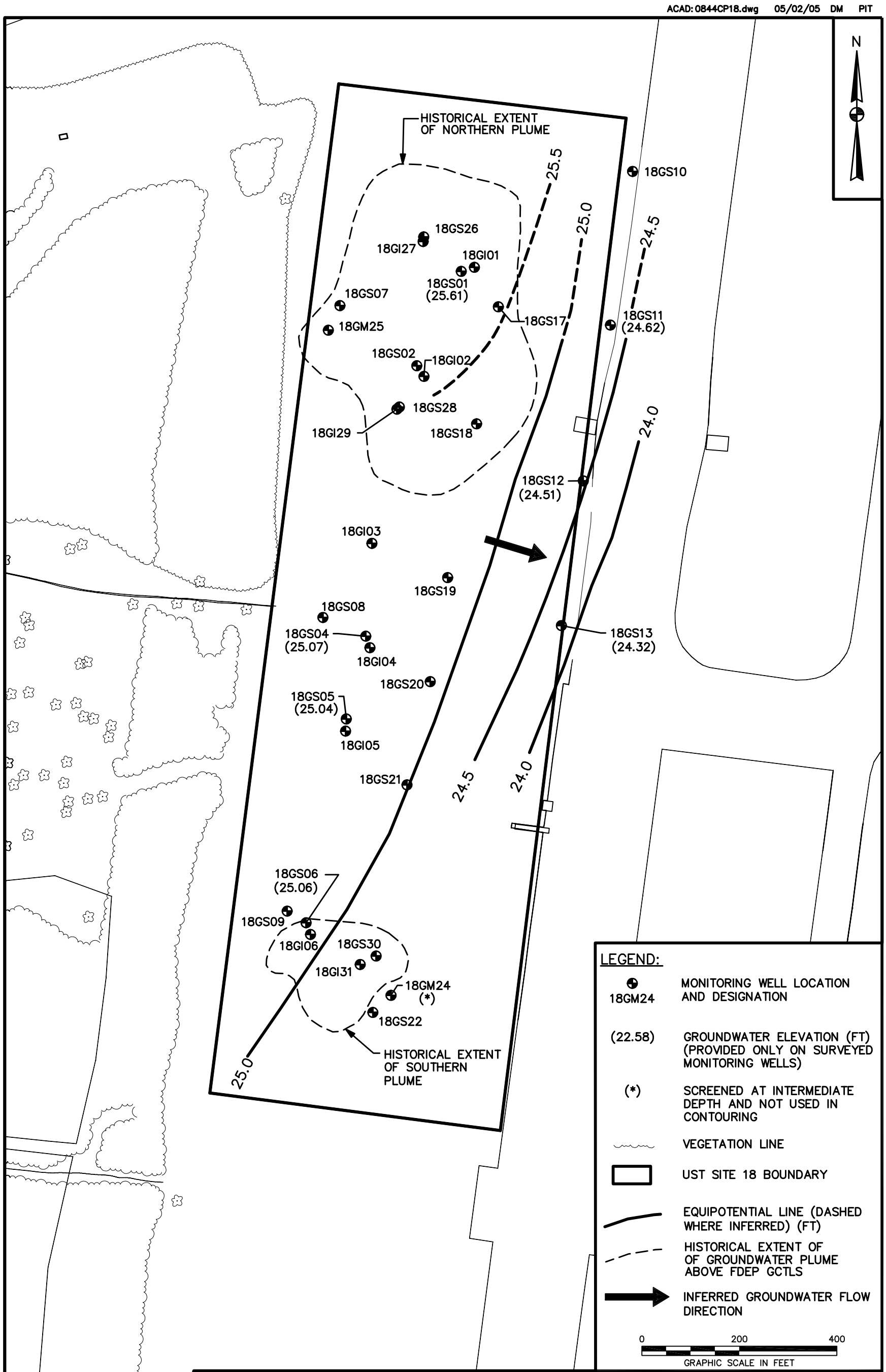
UST 18, NAS Pensacola

CH2MHILL

rp3_18_f2-3.dwg
4-Feb-2003


FORREST SHERMAN FIELD
TO OUTFALL AA
AA3K
UNDERGROUND STORMWATER DRAIN LINE
AA3L
GM-20 DESTROYED
GM-21
BA-1
GM-25
BA-2
AA3M
GM-22 DESTROYED
BA-3
BA-4
LL1F
BA-5
GM-23
BA-6
LL1E
BA-7
GM-24
BA-8
LL1D
PISTOL RANGE
3243
1906
GM-19
SITE 19
FUEL FARM PIPELINE LEAK AREA
GM-17
GM-16
GM-18
UST 18/SITE 3
CRASH CREW TRAINING AREA
LL1C
R/W1-19
LL1B
TO OUTFALL LL
LEGEND
JEEP TRAIL
STORMWATER DRAIN LINE SYSTEM
BURN AREA
EXISTING SHALLOW MONITORING WELL
SITE BOUNDARY
TREE LINE
400 0 400
SCALE FEET
CONTAMINATION ASSESSMENT REPORT
UST 18
NAS PENSACOLA
FIGURE 2-2
SITE MAP
DWG DATE: 01/10/96
DWG NAME: 70SUST18

ACAD: 0844CP18.dwg 05/02/05 DM PIT



DRAWN BY	DATE			CONTRACT NO.
DM	5/2/05		GROUNDWATER ELEVATIONS TREATABILITY STUDY EVALUATION REPORT UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	N0844
CHECKED BY	DATE			OWNER NO. 0000
REVISED BY	DATE			APPROVED BY / DATE
SCALE AS NOTED		NAVFAC		DRAWING NO. FIGURE 2-1 / REV. 0

FORM CADD NO. SDIV-BV.DWG - REV 1 - 9/10/98

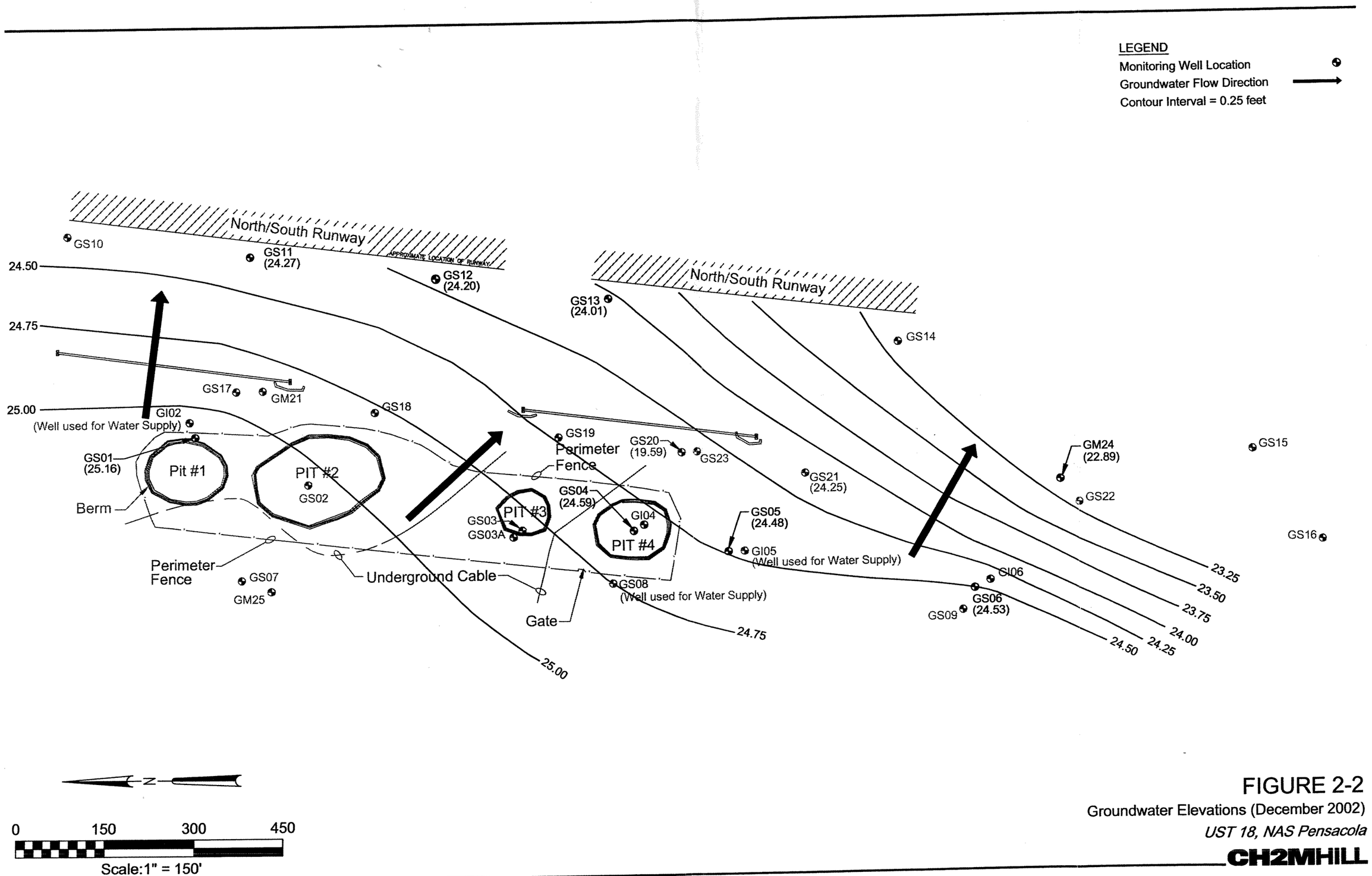


FIGURE 2-2

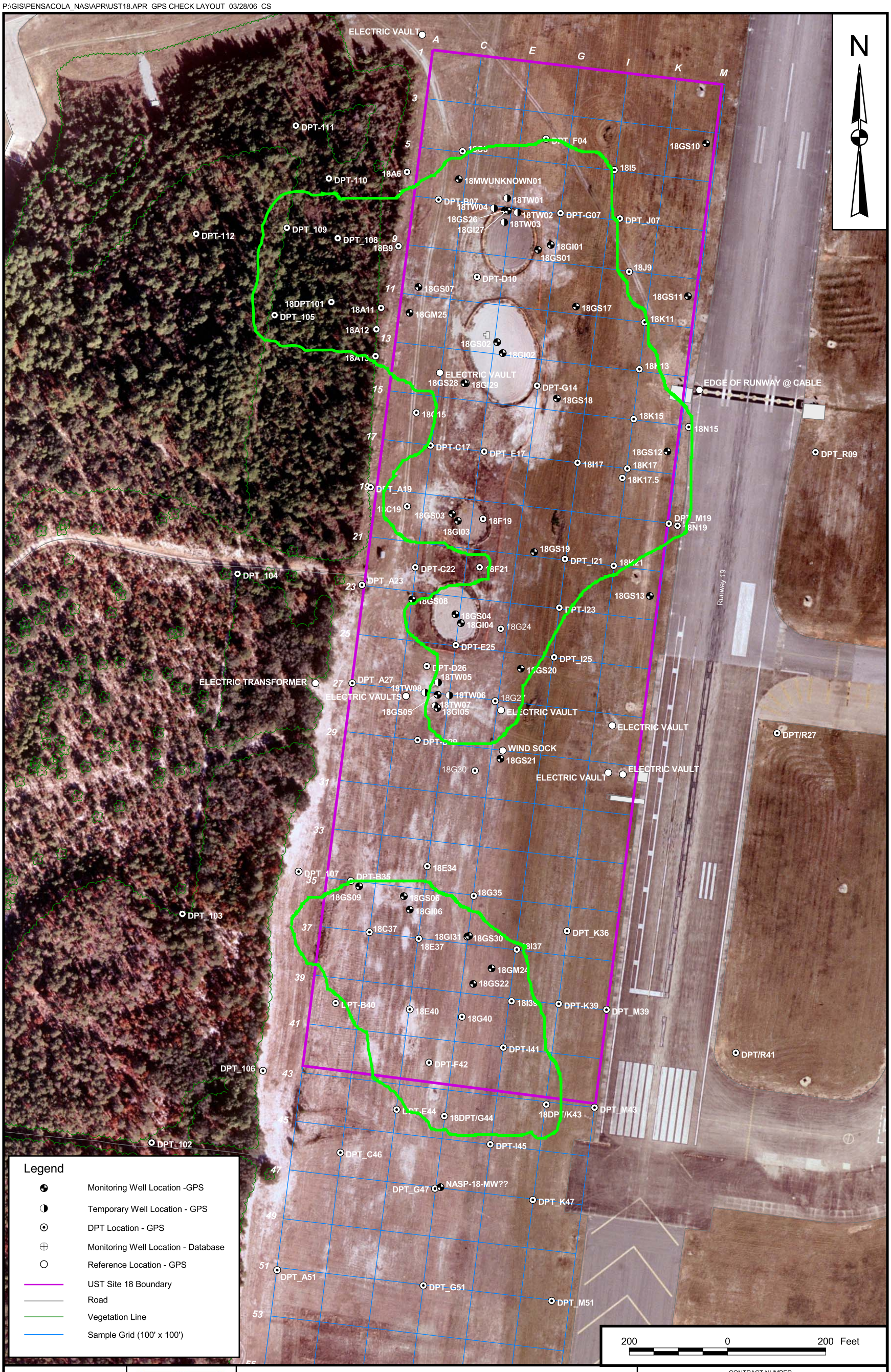
Groundwater Elevations (December 2002)

UST 18, NAS Pensacola

CH2MHILL

rp3_18_f2-2.dwg
4-Feb-2003

P:\GIS\PENSACOLA_NAS\APR\UST18.APR GPS CHECK LAYOUT 03/28/06 CS



DRAWN BY C. SPEHAR	DATE 01/06/06	GPS AND GROUNDWATER SAMPLE LOCATIONS UST SITE 18 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NUMBER 00140
CHECKED BY C. PIKE	DATE 01/09/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 1 REV 0

APPENDIX B

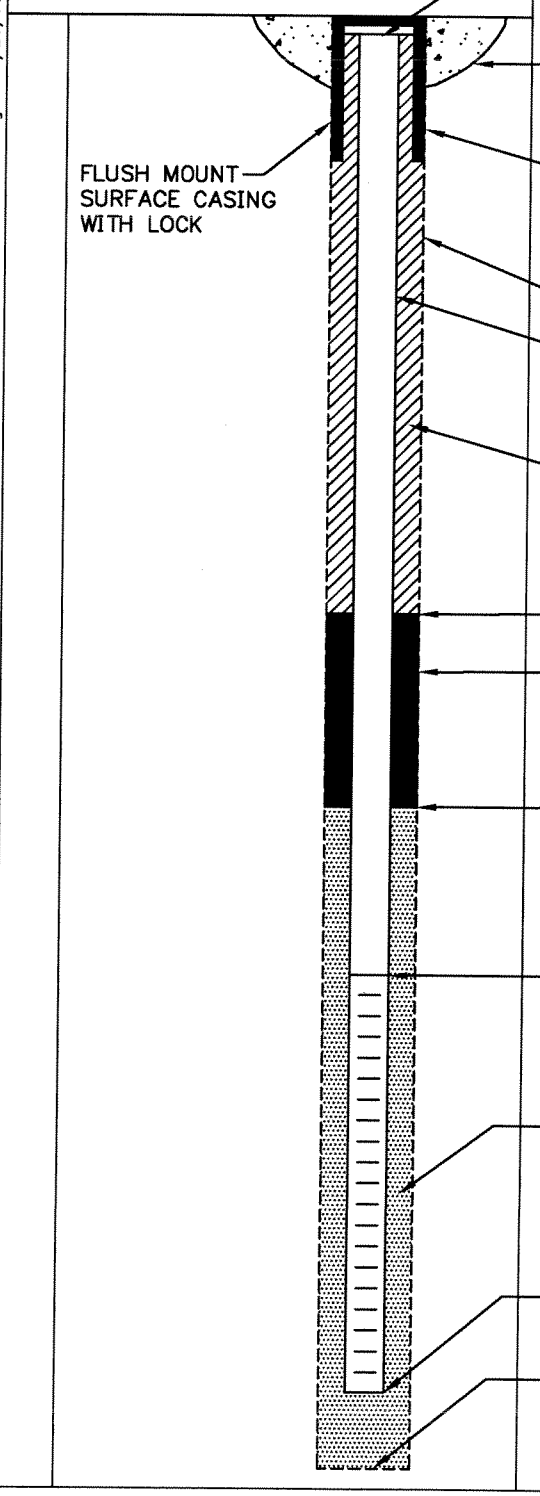
FIELD DATA FORMS

WELL NO.: MW-32s

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-9-06	DATE COMPLETED	DEVELOPMENT METHOD
FIELD GEOLOGIST D. Hickey		
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11'

ELEVATION/DEPTH TOP OF SCREEN: 13'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

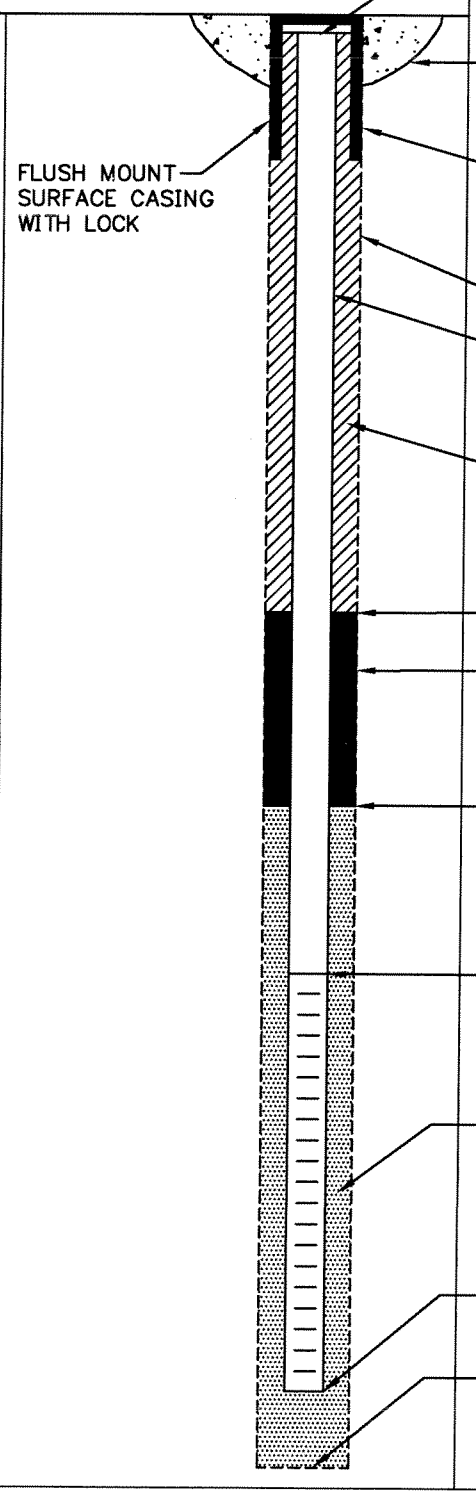
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-33I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-9-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout (Cement/Bentonite)

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

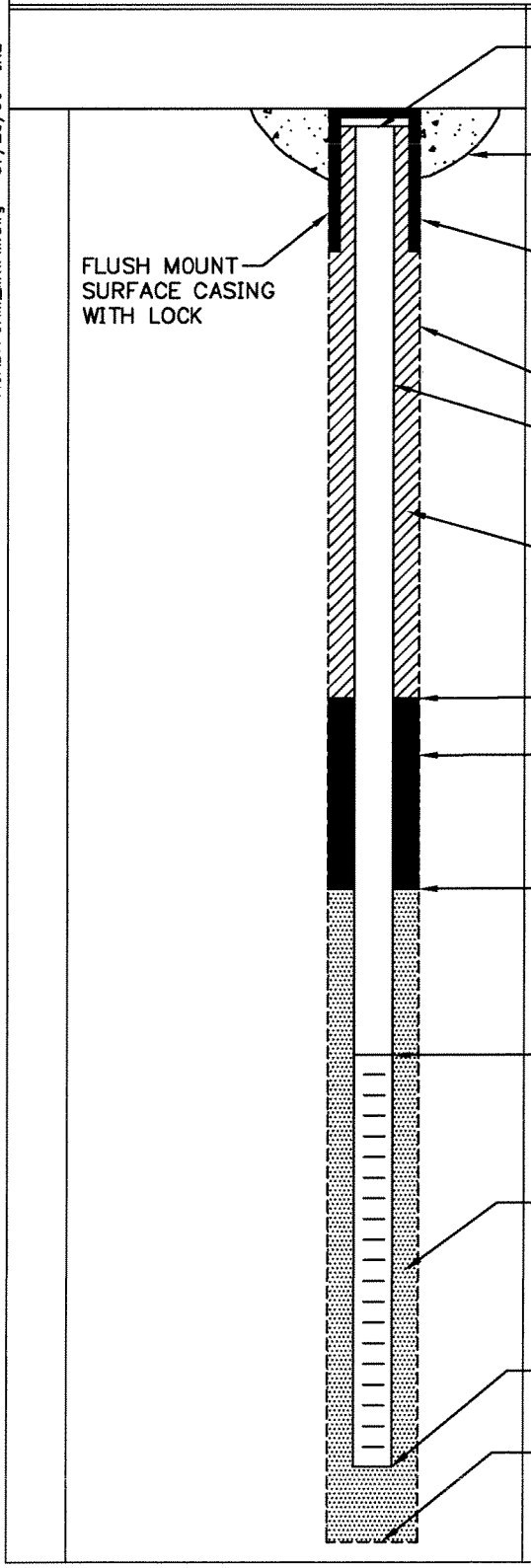
ACAD: FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-34D

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-9-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 145'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 148'

ELEVATION/DEPTH TOP OF SCREEN: 150'

TYPE OF SCREEN: 2" ID, sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 160'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 160'

BACKFILL MATERIAL BELOW SAND:

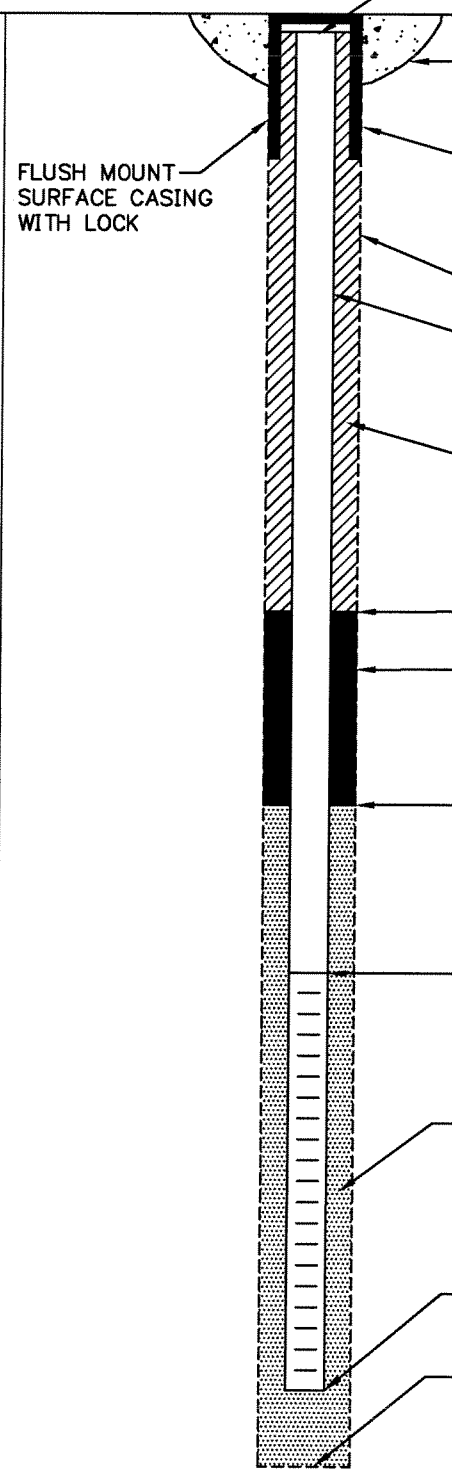
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-35I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-6-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10' S

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

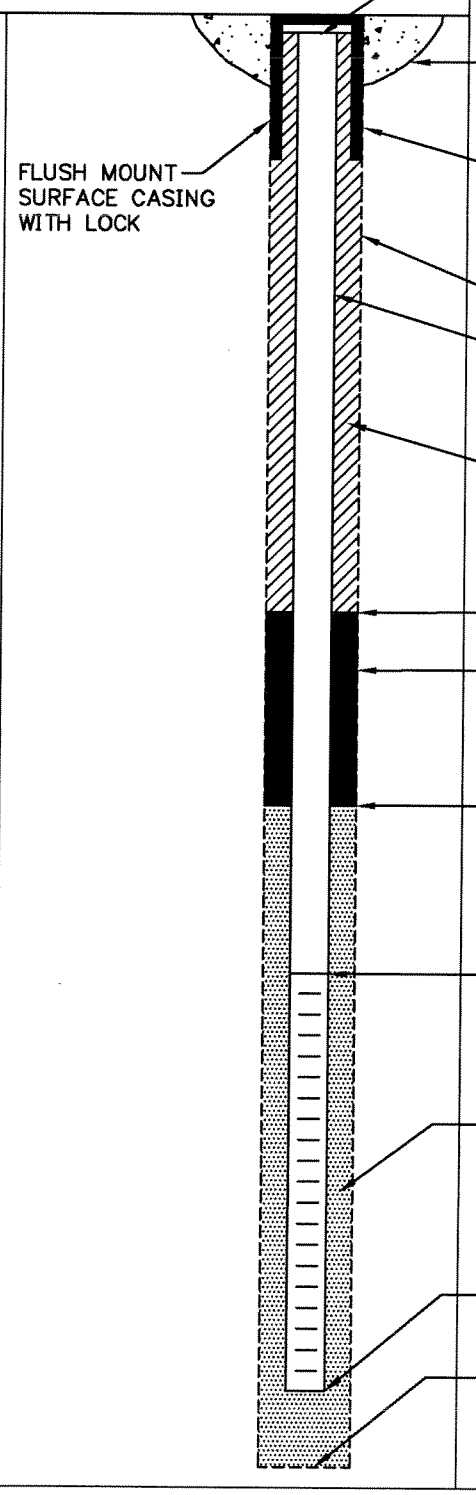
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-365

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-6-06	DATE COMPLETED	DEVELOPMENT METHOD
FIELD GEOLOGIST		
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: ~~Grout~~ DH NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11'

ELEVATION/DEPTH TOP OF SCREEN: 13'

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

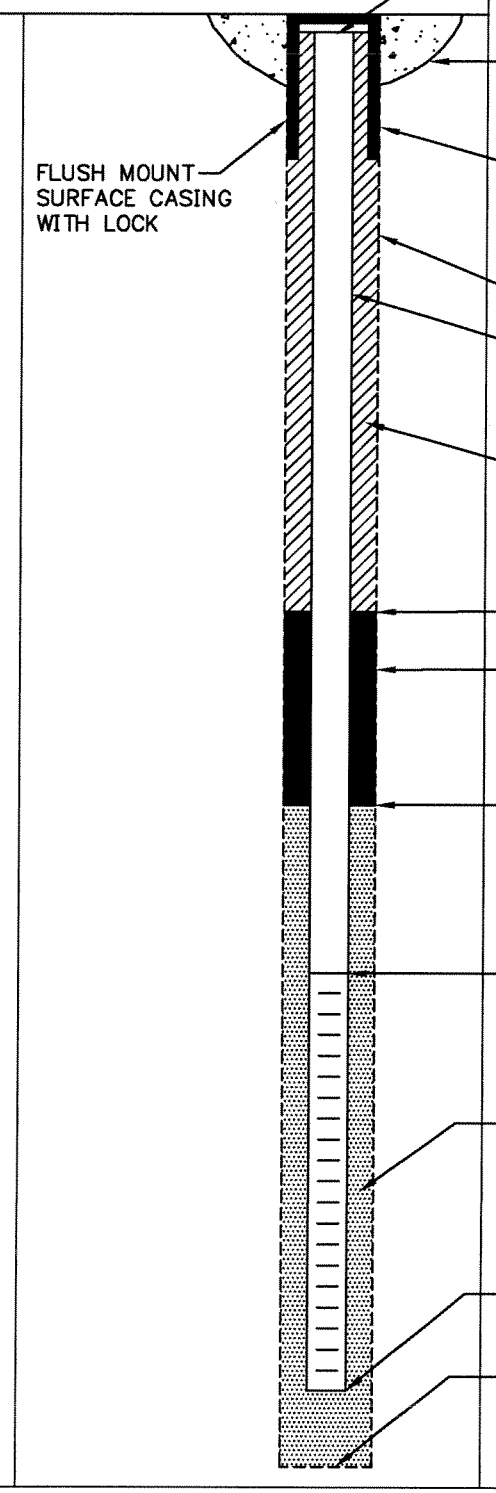
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-37~~2~~S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark Mclean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-5-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11'

ELEVATION/DEPTH TOP OF SCREEN: 13'

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

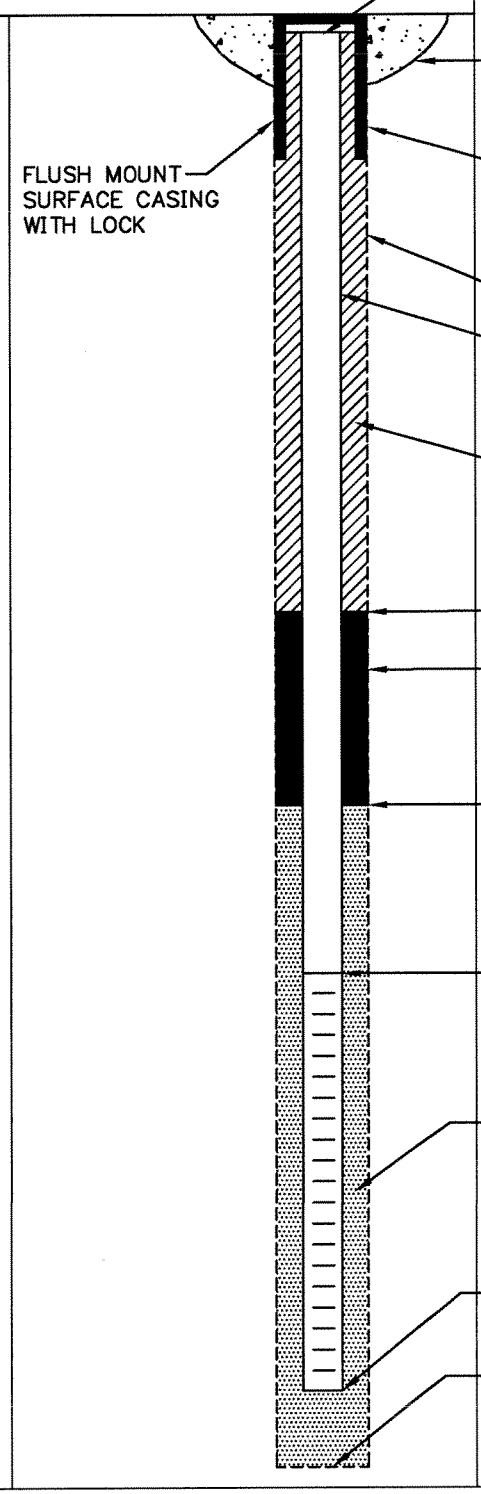
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-38I

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-6-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 Pvc

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 Pvc

SLOT SIZE x LENGTH:

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

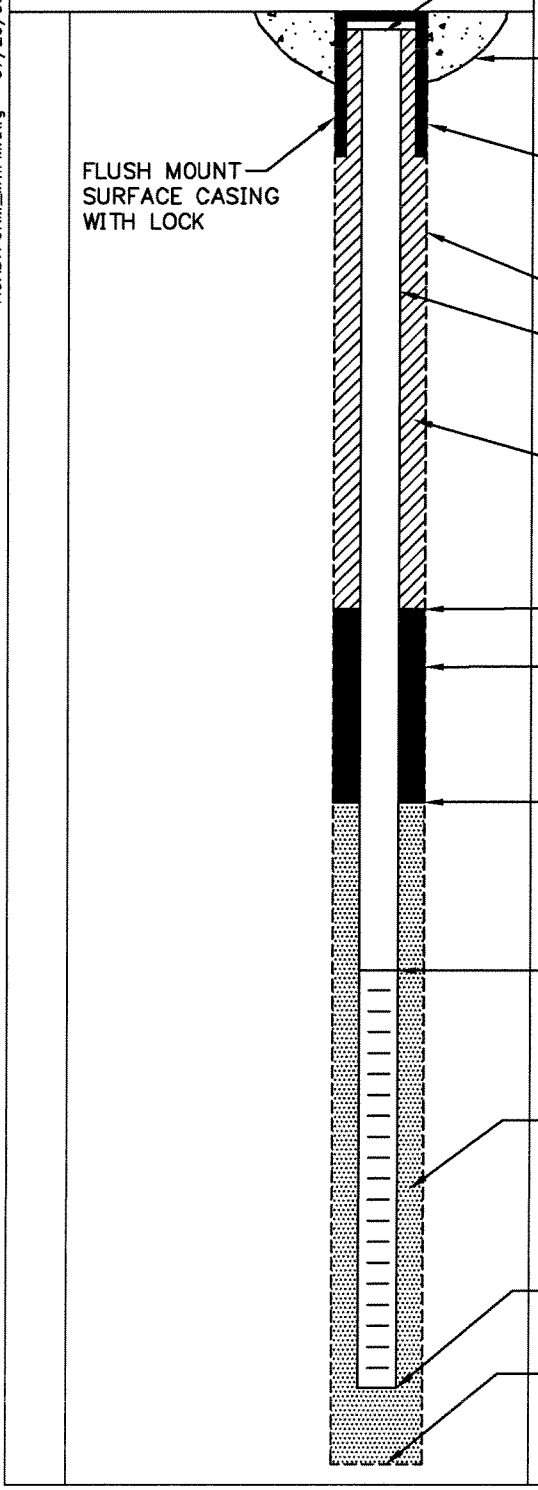
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-39DD

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark Mclean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-5-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 160'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 163'

ELEVATION/DEPTH TOP OF SCREEN: 165'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 175'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 175'

BACKFILL MATERIAL BELOW SAND:

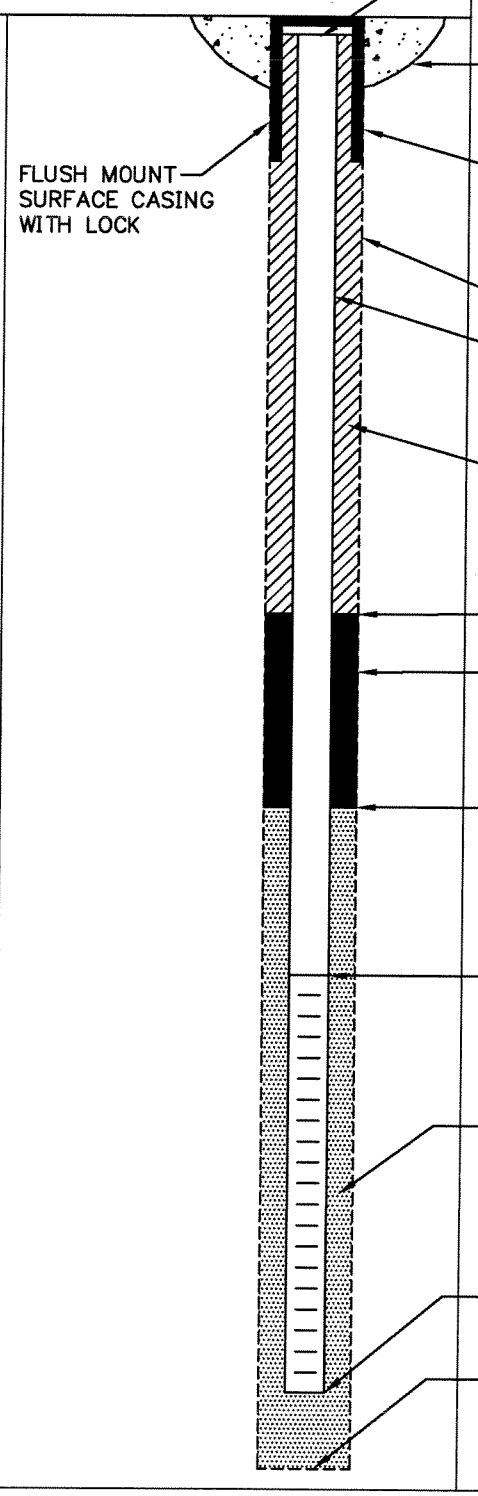
ACAD: FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-40I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER
PROJECT NO.	BORING	DRILLING METHOD Roto Sonic
DATE BEGUN 4-3-06	DATE COMPLETED	
FIELD GEOLOGIST D. Nickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE:

TYPE OF RISER PIPE:

RISER PIPE I.D.:

TYPE OF BACKFILL/SEAL:

ELEVATION/DEPTH TOP OF SEAL: /

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: /

ELEVATION/DEPTH TOP OF SCREEN: /25

TYPE OF SCREEN:

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK:

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: /35

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: /35

BACKFILL MATERIAL BELOW SAND:

ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-41s

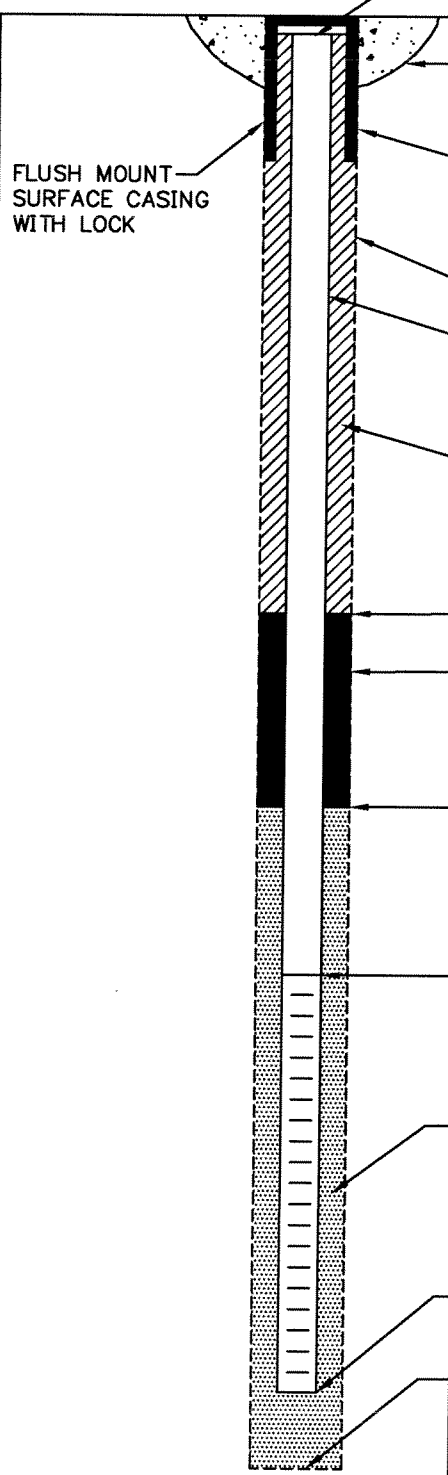
Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT NAS Pensacola
PROJECT NO.
DATE BEGUN 4-6-06
FIELD GEOLOGIST D. Hickey
GROUND ELEVATION

LOCATION Site 18
BORING
DATE COMPLETED
DATUM

DRILLER Mark McLean
DRILLING METHOD Rotosonic
DEVELOPMENT METHOD



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11'

ELEVATION/DEPTH TOP OF SCREEN: 13'

TYPE OF SCREEN: 2" ID, Sch-40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

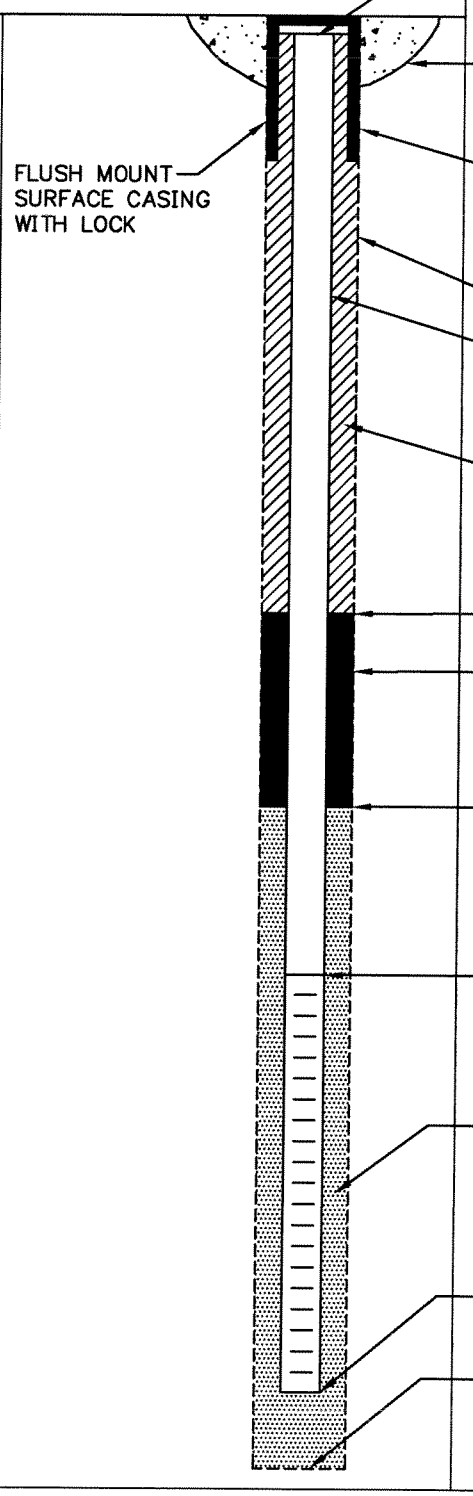
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-42 I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-6-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

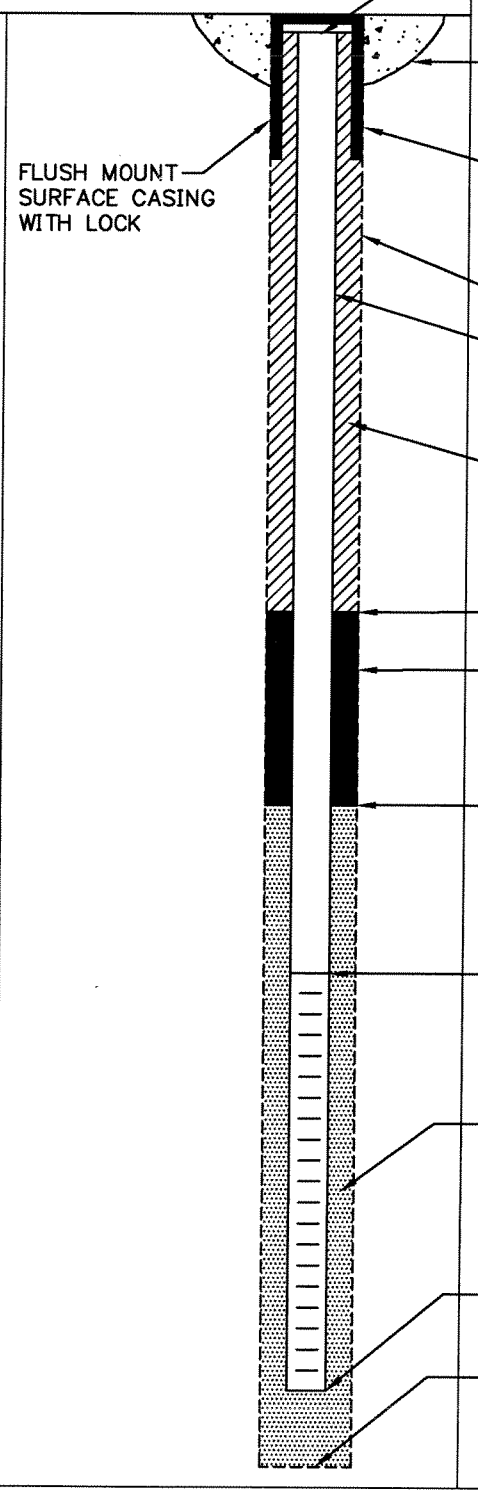
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-43D

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-6-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 145'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 148'

ELEVATION/DEPTH TOP OF SCREEN: 150'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 160'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 160'

BACKFILL MATERIAL BELOW SAND:

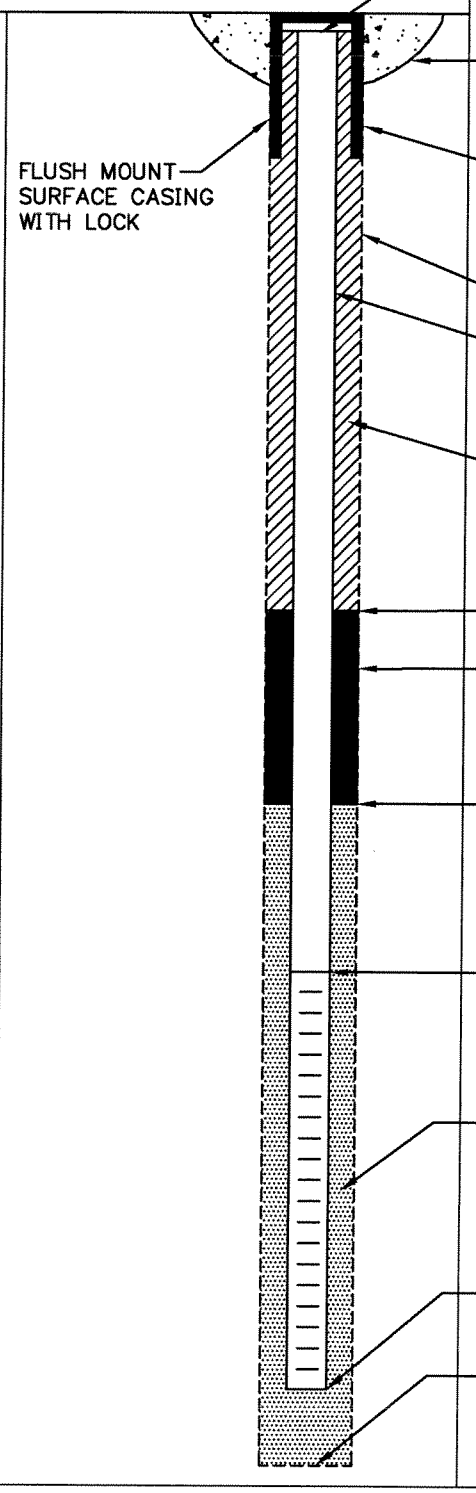
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-46I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-7-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION /	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

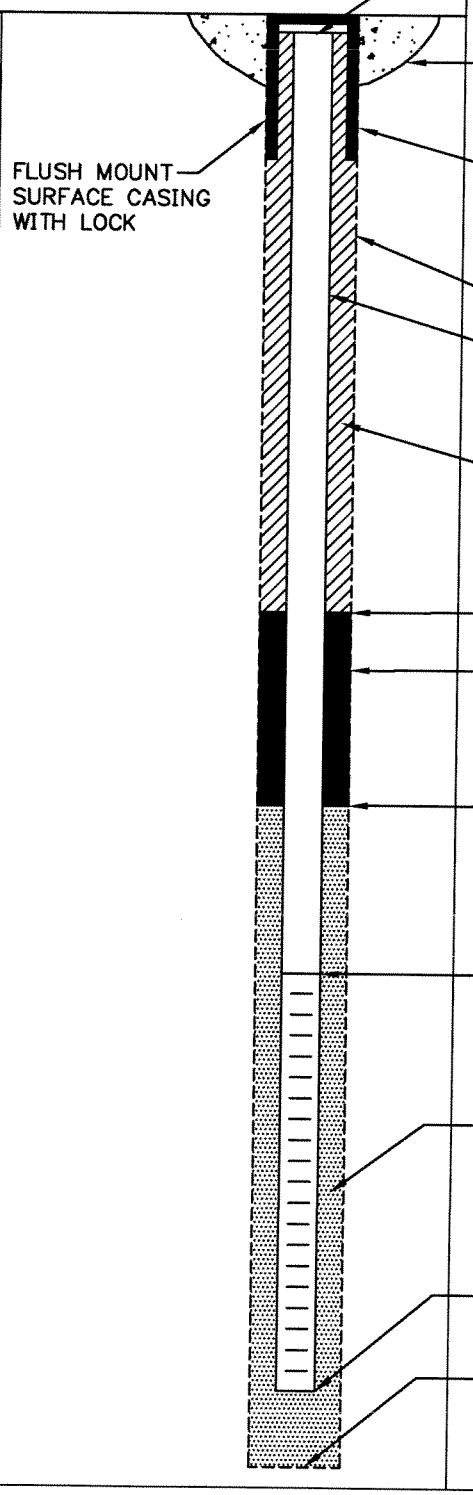
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-47I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotasonic
DATE BEGUN 4-3-06	DATE COMPLETED	
FIELD GEOLOGIST D. Hickey		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: /

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: /

ELEVATION/DEPTH TOP OF SCREEN: /25

TYPE OF SCREEN: 2" ID, sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: /35

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: /35

BACKFILL MATERIAL BELOW SAND:

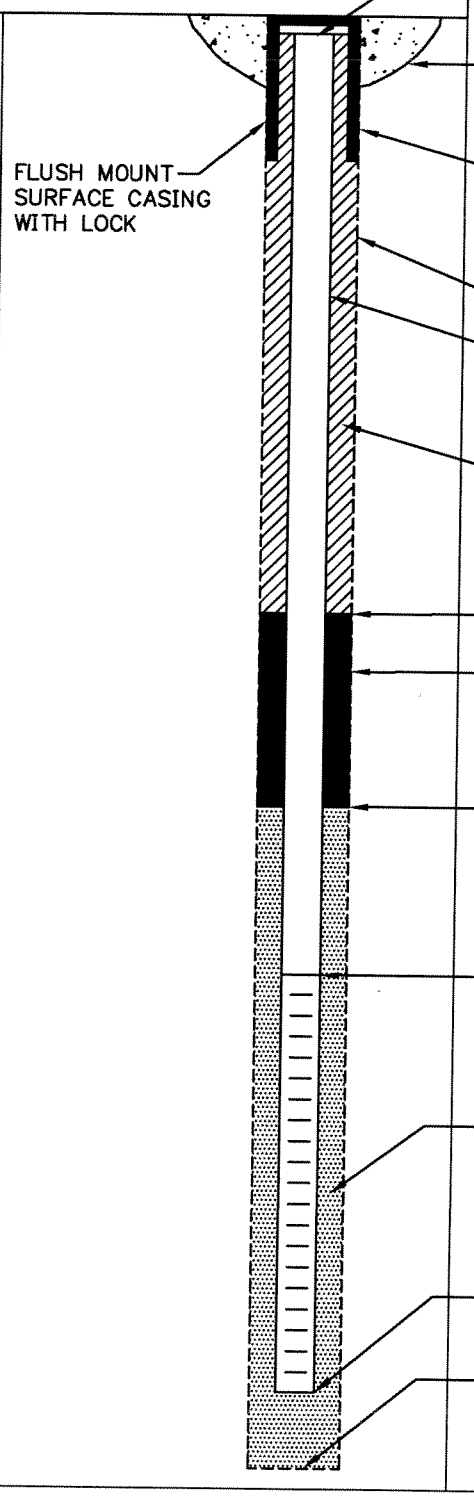
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-48I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola
PROJECT NO.
DATE BEGUN 4-4-06
FIELD GEOLOGIST D. Hickey
GROUND ELEVATION
LOCATION Site 18
BORING
DATE COMPLETED
DATUM
DRILLER
DRILLING METHOD Rotosonic
DEVELOPMENT METHOD



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: 2" ID, Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Cement/Bent. Grout

ELEVATION/DEPTH TOP OF SEAL: /20

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: /23

ELEVATION/DEPTH TOP OF SCREEN: /25

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN ~~BEDROCK~~: 6"

ELEVATION / DEPTH BOTTOM OF SCREEN: /35

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: /35

BACKFILL MATERIAL BELOW SAND:

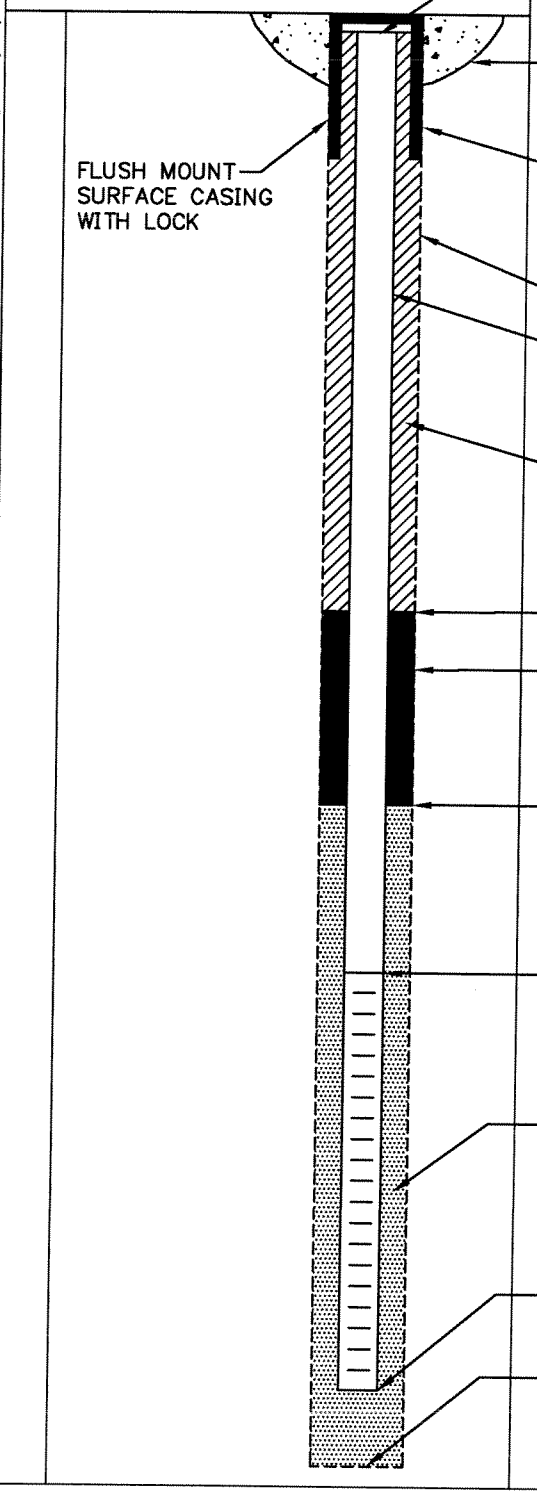
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-49S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: NAS Pensacola
PROJECT NO.:
DATE BEGUN: 4-4-06
FIELD GEOLOGIST: D. Hickey
GROUND ELEVATION: 1
LOCATION: Site 18
BORING:
DATE COMPLETED:
DATUM:
DRILLER: Mark McLean
DRILLING METHOD: Rotosonic
DEVELOPMENT METHOD:



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11'

ELEVATION/DEPTH TOP OF SCREEN: 13'

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN ~~BEDROCK~~: 6 inch

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

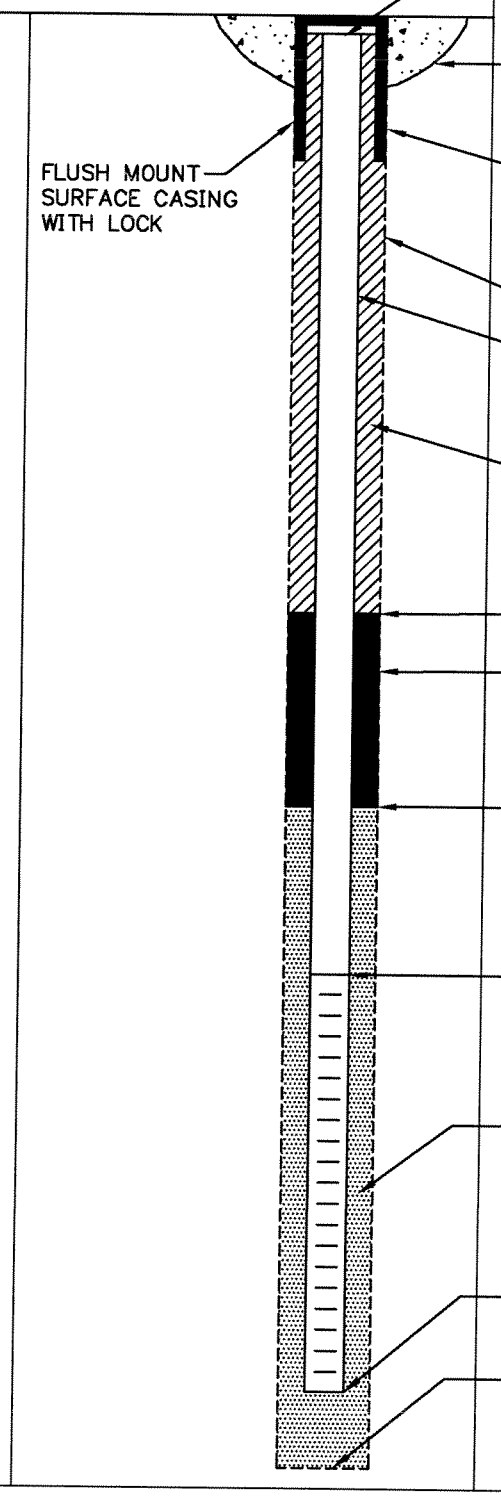
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-50I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: NAS Pensacola
PROJECT NO.:
DATE BEGUN: 4-5-06
FIELD GEOLOGIST: D. Hickey
GROUND ELEVATION: 7
LOCATION: Site 18
BORING:
DATE COMPLETED:
DATUM:
DRILLER: Mark McLean
DRILLING METHOD: Rotosonic
DEVELOPMENT METHOD:



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK: 6 inch

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

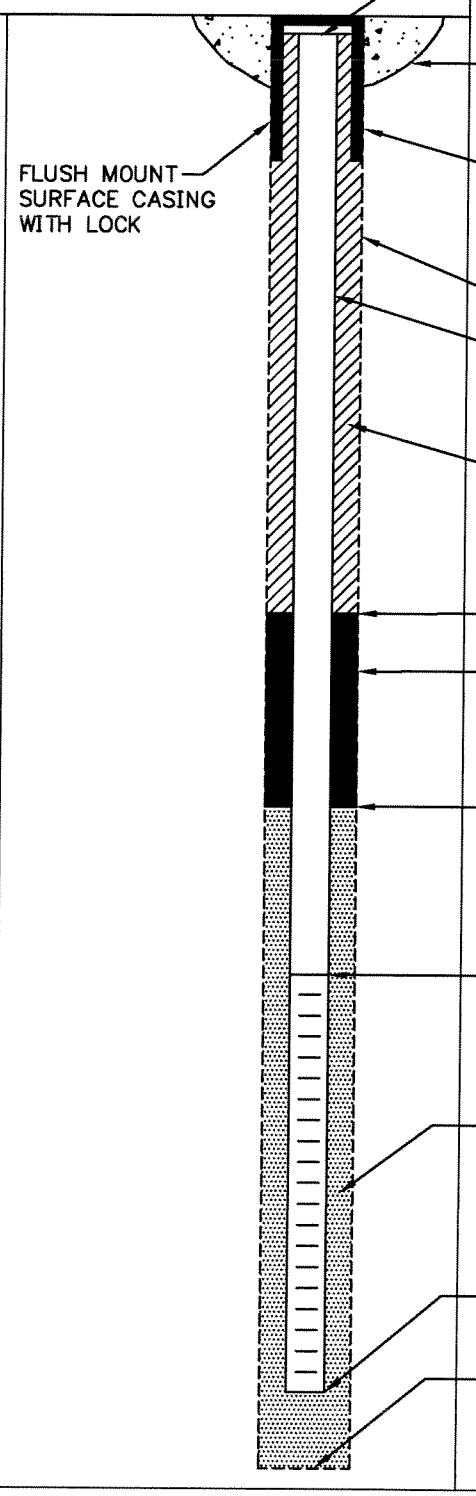
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-51D

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD RotoSonic
DATE BEGUN 4-4-06	DATE COMPLETED 4-4-06	DEVELOPMENT METHOD
FIELD GEOLOGIST D. Hickey		
GROUND ELEVATION /	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: / 45'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: / 48'

ELEVATION/DEPTH TOP OF SCREEN: / 50'

TYPE OF SCREEN: 2" ID Sch40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN ~~BEDROCK~~: 6 inch

ELEVATION / DEPTH BOTTOM OF SCREEN: / 60'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: / 60'

BACKFILL MATERIAL BELOW SAND:

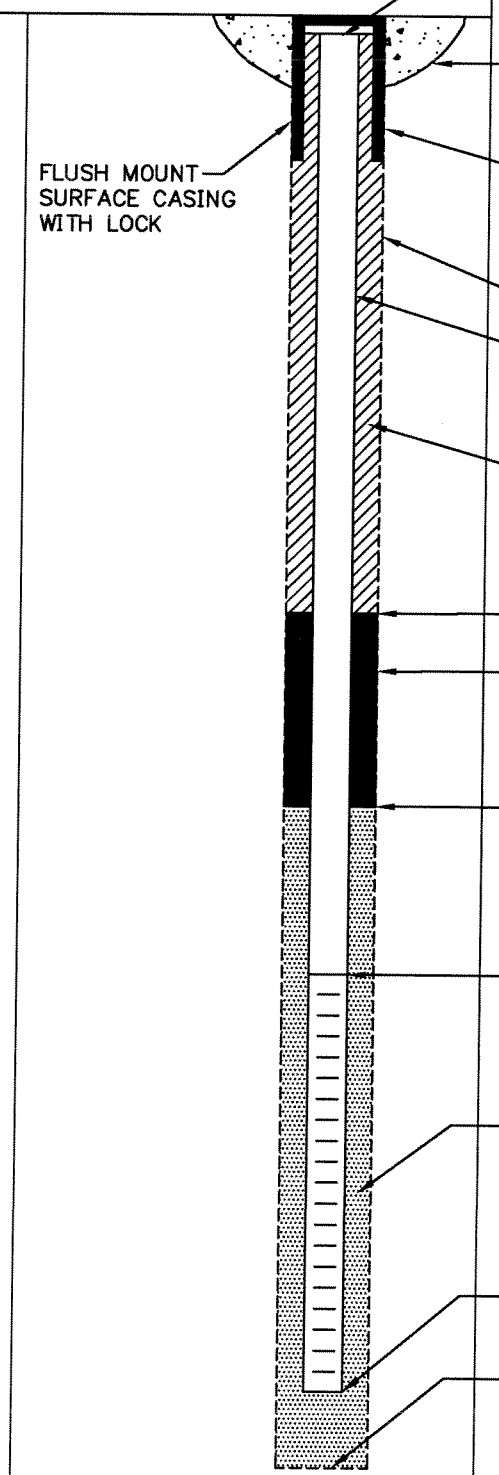
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-52s

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola
PROJECT NO.
DATE BEGUN 4-7-06
FIELD GEOLOGIST D. Hickey
GROUND ELEVATION
LOCATION Site 18
BORING
DATE COMPLETED
DATUM
DRILLER Mark McLean
DRILLING METHOD Rotosonic
DEVELOPMENT METHOD



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: ~~13~~ 11' DH

ELEVATION/DEPTH TOP OF SCREEN: ~~10'~~ 3' DH

TYPE OF SCREEN: 2" ID, sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 13'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 13'

BACKFILL MATERIAL BELOW SAND:

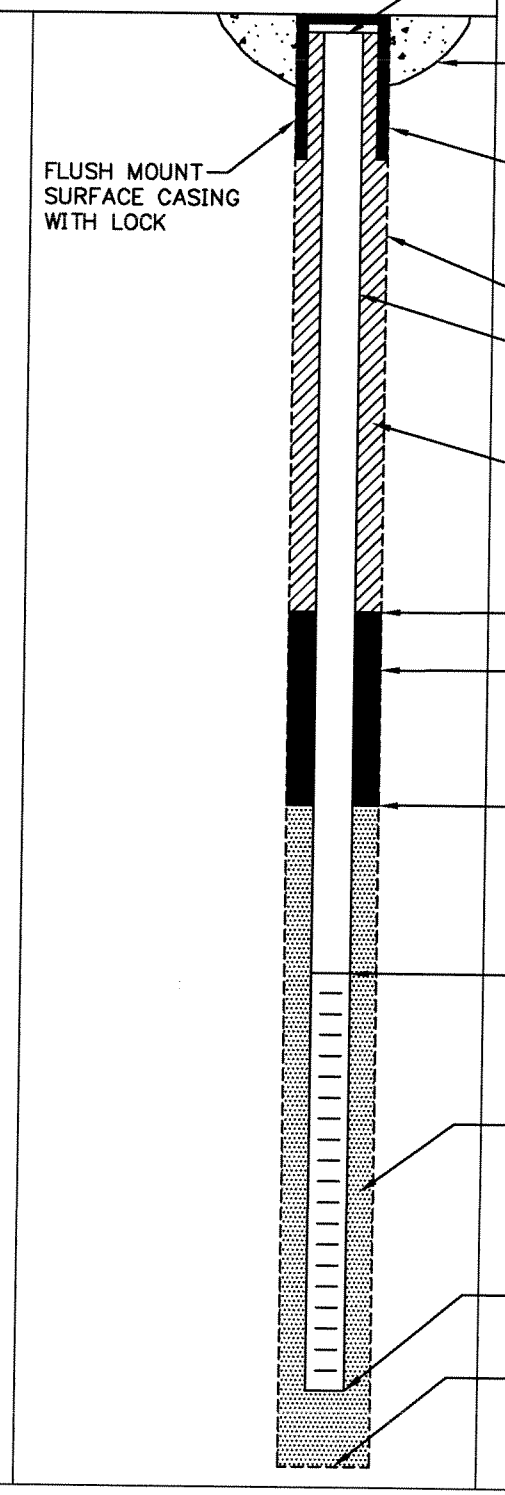
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-53I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola
PROJECT NO.
DATE BEGUN 4-7-06
FIELD GEOLOGIST D. Hickey
GROUND ELEVATION
LOCATION Site 18
BORING
DATE COMPLETED
DATUM
DRILLER Mark McLean
DRILLING METHOD Rotosonic
DEVELOPMENT METHOD



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-54I

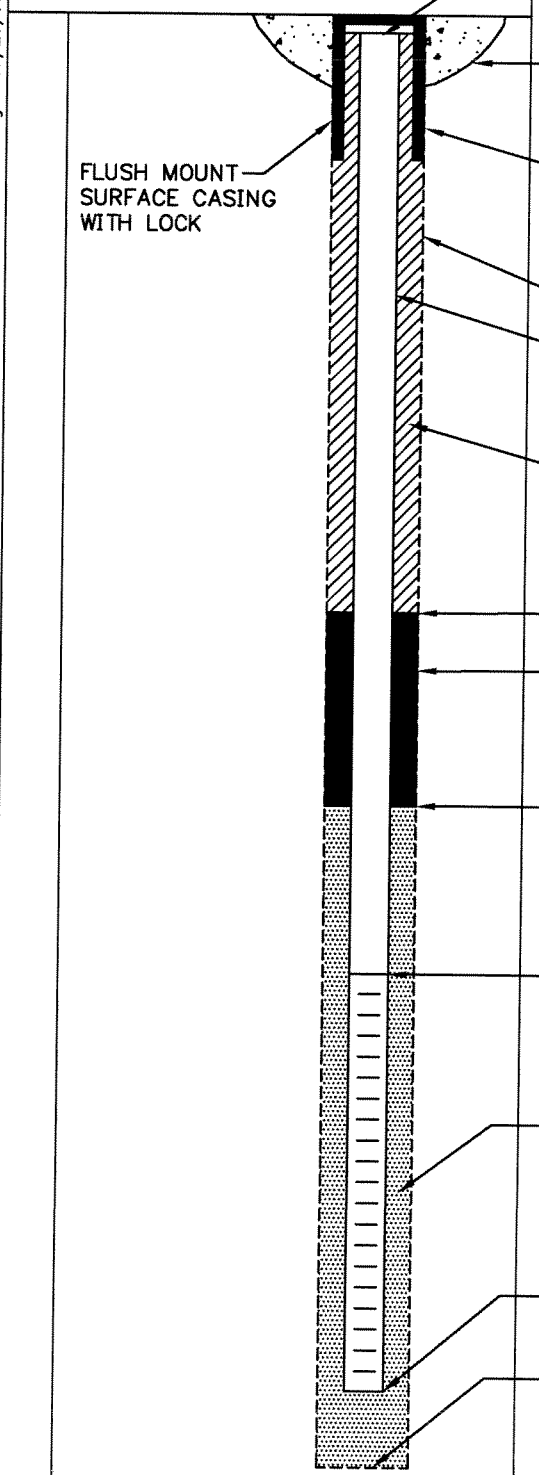
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola
PROJECT NO.
DATE BEGUN
FIELD GEOLOGIST D. Hickey
GROUND ELEVATION

LOCATION Site 18
BORING
DATE COMPLETED
DATUM

DRILLER Mark McLean
DRILLING METHOD Rotosonic
DEVELOPMENT METHOD



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

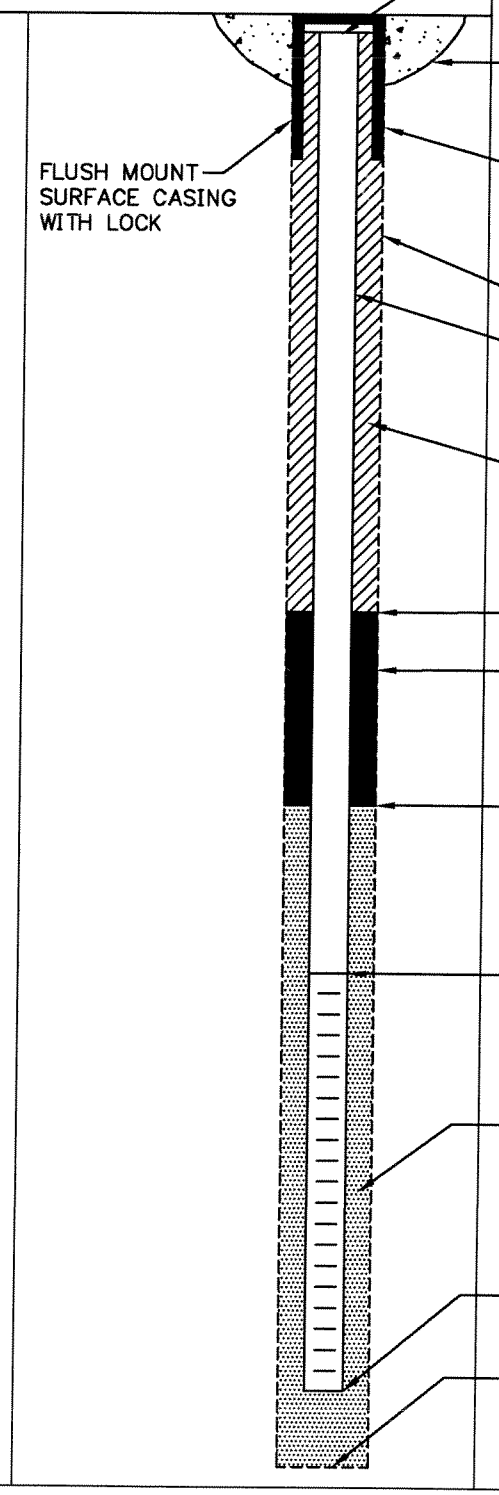
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-55D

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-8-06	DATE COMPLETED	DEVELOPMENT METHOD
FIELD GEOLOGIST D. Hickey		
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 145'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 148'

ELEVATION/DEPTH TOP OF SCREEN: 150'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 160'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 160'

BACKFILL MATERIAL BELOW SAND:

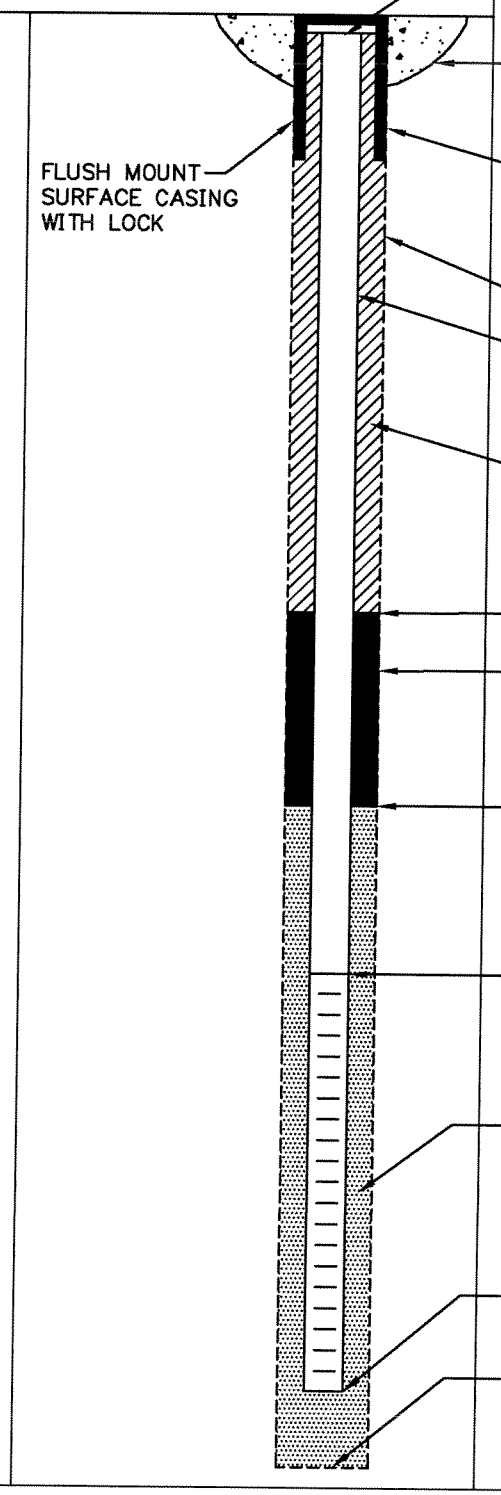
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-565

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT	LOCATION	DRILLER
PROJECT NO.	BORING	DRILLING METHOD
DATE BEGUN 4-4-06	DATE COMPLETED 4-4-06	
FIELD GEOLOGIST		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: NA

ELEVATION/DEPTH TOP OF SEAL: 10.5

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 11

ELEVATION/DEPTH TOP OF SCREEN: 13

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN ~~BEDROCK~~: 6"

ELEVATION / DEPTH BOTTOM OF SCREEN: 13

ELEVATION / DEPTH BOTTOM OF SAND: 1

ELEVATION/DEPTH BOTTOM OF HOLE: 13

BACKFILL MATERIAL BELOW SAND:

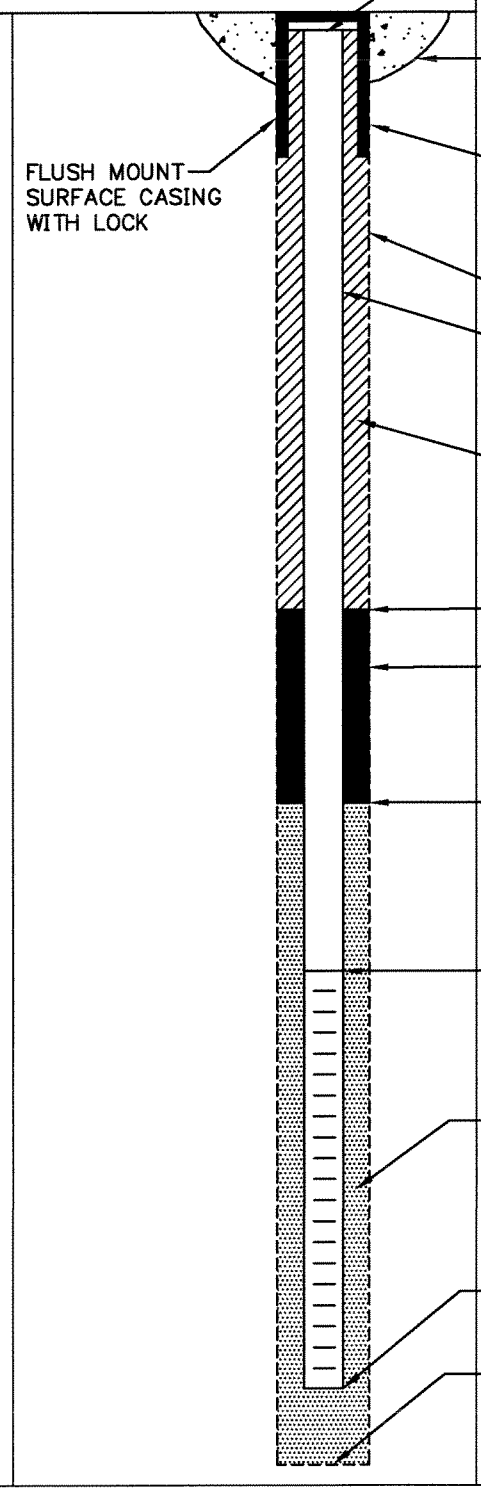
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-57I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT	LOCATION	DRILLER
PROJECT NO.	BORING	DRILLING METHOD
DATE BEGUN	DATE COMPLETED 4-4-06	
FIELD GEOLOGIST 4-4-06		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6"

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: B Grout

ELEVATION/DEPTH TOP OF SEAL: /20

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: /23

ELEVATION/DEPTH TOP OF SCREEN: /25

TYPE OF SCREEN: 2" ID Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN ~~BEDROCK~~: 6"

ELEVATION / DEPTH BOTTOM OF SCREEN: /35

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: /35

BACKFILL MATERIAL BELOW SAND:

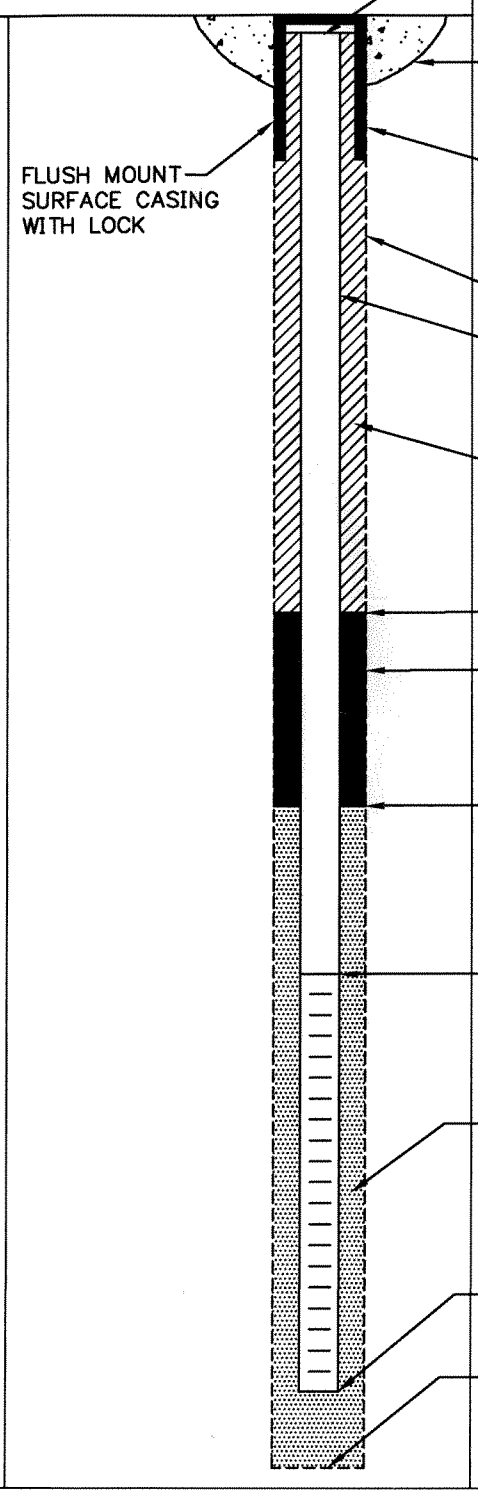
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: MW-58I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NAS Pensacola	LOCATION Site 18	DRILLER Mark McLean
PROJECT NO.	BORING	DRILLING METHOD Rotosonic
DATE BEGUN 4-7-06	DATE COMPLETED	DEVELOPMENT METHOD
FIELD GEOLOGIST D. Hickey		
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL:

TYPE OF PROTECTIVE CASING:

I.D. OF PROTECTIVE CASING:

DIAMETER OF HOLE: 6 inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2 inch

TYPE OF BACKFILL/SEAL: Grout

ELEVATION/DEPTH TOP OF SEAL: 120'

TYPE OF SEAL: Bentonite

ELEVATION/DEPTH TOP OF SAND: 123'

ELEVATION/DEPTH TOP OF SCREEN: 125'

TYPE OF SCREEN: 2" ID, Sch 40 PVC

SLOT SIZE x LENGTH: 0.010" X 10'

TYPE OF SAND PACK: Clean Silica Sand

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 135'

ELEVATION / DEPTH BOTTOM OF SAND: /

ELEVATION/DEPTH BOTTOM OF HOLE: 135'

BACKFILL MATERIAL BELOW SAND:

ACAD:FORM_MWFM.dwg 07/20/99 INL

OAKTON
Turbidimeter T-100
SN318205

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4/25/06	Oakton Turb. T-100	318205	.02 NTU	515/2	May 2007	-	.02	[illegible]
			20.0 NTU	515/2	MAY 2007	-	20.0	"
			100.0 NTU	515/2	MAY 2007	-	100	"
			800.0 NTU	515/2	MAY 2007	-	800	"
4/26/06	Oakton Turb. T-100	318205	800 NTU	515/2	May 2007	-	800 NTU	TC
			100 NTU	515/2	MAY 2007	-	100 NTU	TC
			20 NTU	515/2	May 2007	-	20 NTU	TC
			0.02 NTU	515/2	May 2007	-	0.02 NTU	TC
4/27/06	Oakton Turb. T-100	318205	800 NTU	515/2	May 2007	-	800 NTU	TC
			100 NTU	"	"	-	100 NTU	TC
			20 NTU	"	"	-	20 NTU	TC
			0.02 NTU	"	"	-	0.02 NTU	TC

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

05H2352 AB

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4-26-06	YSI 556 MPS	05H2352 AB	ORP - 240.0			213.6	240.2	C.O.
			10.0 - pH			9.83	10.02	C.O.
			4.0 - pH			3.97	4.00	C.O.
			1.409 - COND			1.399	1.409	C.O.
4/26/06	YSI 556 MPS	05H2352 AB	D.O.	–	–	101.5%	100.0%	TC.
			4.0 - pH	N/A	N/A	4.08	4.00	TC
			10.0 - pH	N/A	N/A	10.05	10.00	TC
			1.409 - COND			1.310	1.409	TC
			TEMP - °C	–	–	YSI = 22.00°C	THER = 22°C	TC
4/27/06	YSI 556 MPS	05H2352 AB	100% - DO	–	–	114.8%	100.0%	TC
			4.0 - pH	N/A	N/A	3.95	4.00	TC
			10.0 - pH	N/A	N/A	10.13	10.00	TC
			1.409 - COND	N/A	N/A	1.428	1.409	TC
			°C - TEMP	–	–	YSI: 18.27°C	THER = 18.5°C	TC

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4-25	OakTon T-100	U47355X	800, 100, 20, .02	385/1	Feb 07	807 NTU	792 NTU	[illegible]
4-26	" "	"	"	"	"	753	806	[illegible]
4-27	" "	"	"	"	"	813	816	[illegible]

05J1045 AH

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4-25-06						285.9	240.0	
						1.397	1.409	
						4.89	3.99	
						9.59	10.11	
4-26-06						4.06	3.99	
						10.11	10.02	
						1.377	1.414	
4-27-06						1.467	1.409	
						9.98	10.02	
						4.00	3.97	

INSTRUMENT CALIBRATION SHEET

YSI - 556 MPS

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
								LOT #s
4/25/06	YSI / 556 MPS	51353	4	2505079	04-2007	4.51	4.00	Ph 4 2505079
			7	2507093	06-2007	6.88	7.00	Ph 7 2507093
			240	G829	10-2007	189.9	240.0	ORP G829
			1,413	2509214	9-2006	0.00	1,413	COND 2509214
	OAKTON/Turbidmeter	257208	0.02	165	3-2006	0.00	0.02	
			20	165	3-2006	20.1	20.0	
			100	165	3-2006	99.6	100	
SRM			800	165	3-2006	795	800	
4/27/06	YSI	51353	4	2505079	04-2007	4.22	4.00	
			7	2502093	06-2007	6.96	7.00	
			240	G829	10-2007	152.4	240	
			1,413	2509214	9-2006	0.00	1413	
	OAKTON	257208	0.02	165	3-2006	0.01	0.02	
			20	165	3-2006	16	20	
			100	165	3-2006	102	100	
SRM			800	165	3-2006	798	800	

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
							NTUs	
5/1/06	Oakton T-100						800	
							100	
							20	
							0.02	
5/2/06	Oakton T-100						800	
							100	
							20	
							0.02	

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
5/01/06	YSI 556 mPS	04C2296				3.13	4.00	
						9.79	10.01	
						1.395	1.417	
5/2/06	YSI 556 MPS	04C2296				3.89	4.00	
						10.43	10.00	
						1.367	1.409	

04C2296 AM

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4-25-06						256.1	239.2	[illegible]
						10.24	10.02	
						4.03	4.00	
						1.311	1.412	
4-26-06						5.62	4.01	
						1.438	1.410	
						9.72	9.96	
						4.16	4.01	

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
5/01/06	OAKTON T-100	304006					500	[illegible]
							100	
							20	
							.02	

OAKTON

SN 304006

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
4-25-06							.02	[illegible]
							20.0	
							100	
							800	
4-27-06							.02	[illegible]
							200	
							100	
							800	

INSTRUMENT CALIBRATION SHEET

PROJECT NAME : UST Site 18

PROJECT NUMBER : 112G00140 (cto 0005)

CALIBRATION DATE	INSTRUMENT/MODEL	Serial #	STANDARDS USED	Lot #	EXP. DATE	PRE READING	FINAL READING	SIGNATURE + COMMENTS
5/1/06	YSI 556 MPS	15135				pH 4.04	4.00	
						pH 7.02	7.00	
						Cond 1.368	1.409	
5/2/06	"	"				3.97	4.00	
						10.09	10.00	
						1.415	1.408	
"	"	4C2296				1.425	1.409	
						4.06	3.99	
						10.16	10.00	
5/2/06	OAKTON T-100	304006				800	800	
						100	100	
						20	20	
						.02	.02	
"	"	1/86/82				800	800	
						100	100	
						20	20	
						.02	.02	

Tetra Tech NUS, Inc.

Project Name: UST Site 18
Location: NAS Pensacola
Weather Conditions: 90°F, Sunny
Tidally Influenced: No

Project No.: 112G00140 (CTO 0005)
Personnel: TC, CO, SM, & DH
Measuring Device:
Remarks:

Well ID	Date	Time	Total Depth (feet)*	Water Level (feet)*	Free Product (Yes/No)	Free Product Thickness (feet)*	Comments
GS01	4/24/06	1556	11.93	3.03	No	—	
GI01		1558	54.11	7.57	No	—	
GS02		1620	10.13	3.12	No	—	
GI02		1623	53.15	8.66	No	—	
GS03		1633	10.33	4.25	No	—	
GI03		1635	58.41	9.51	No	—	
GS04		1649	10.97	4.37	No	—	
GI04		1647	57.35	9.61	No	—	
GS05		1658	12.85	4.57	No	—	
GI05		1656	58.42	10.30	No	—	
GS06		1738	12.06	5.44	No	—	
GI06		1741	43.29	9.68	No	—	
GS07		1521	11.30	4.70	No	—	
GS08		1653	13.42	5.14	No	—	
GS09		1744	14.71	6.30	No	—	
GS10		1544	12.68	4.93	No	—	WELL COVER BROKEN
GS11		1611	12.34	5.08	No	—	
GS12		1708	12.55	4.86	No	—	
GS13		1705	13.08	5.26	No	—	
GS14		1723	13.39	6.20	No	—	
GS15		1735	19.60	14.05	No	—	
GS16		1727	17.27	15.65	No	—	
GS17		1607	12.73	3.66	No	—	
GS18		1617	19.08	3.57	No	—	WELL SEEMS PLUGGED
GS19		1640	—	—	No	—	WELL DAMAGED COULDN'T GET PROBE IN
GS20		1643	19.69	3.32	No	—	WELL SEEMS PLUGGED
GS21		1731	19.06	3.00	No	—	
GS22		1748	17.10	4.42	No	—	
GM24		1746	12.65	3.81	No	—	
GM25		1527	6.65	12.79	No	—	

Project Name: UST Site 18 **Project No.:** 112G00140 (CTO 0005)

Location: NAS Pensacola **Personnel:** TC, CO, SM, DH

GS26	4/24/06	1534	8.39	4.27	YES	0.69	
GI27		1538	24.65	8.63	NO	—	
GS28		1628	11.55	4.65	NO	—	
GI29		1631	23.22	9.17	NO	—	
GS30		1742	10.64	4.19	NO	—	
GI31		1744	24.00	7.23	NO	—	
MW32S		1715	12.94	5.21	NO	—	
MW33I		1717	35.25	9.86	NO	—	
MW34D		1718	59.53	9.99	NO	—	
MW35I		1612	35.01	8.94	NO	—	
MW36S		1756	12.96	3.50	NO	—	
MW37S		1542	12.62	3.41	NO	—	
MW38I		1600	34.91	7.48	NO	—	
MW39DD		1602	74.61	8.64	NO	—	
MW40I		1615	35.11	6.45	NO	—	
MW41S		1514	12.50	4.79	NO	—	
MW42I		1516	35.20	10.25	NO	—	
MW43D		1518	59.45	10.46	NO	—	
MW44S		1754	12.85	3.47	NO	—	
MW45I		1752	35.05	8.63	NO	—	
MW46I		1704	35.18	9.60	NO	—	
MW47I		1644	35.22	6.66	NO	—	
MW48I		1729	35.06	6.78	NO	—	
MW49S		1747	12.08	5.40	NO	—	
MW50I		1749	34.52	8.35	NO	—	
MW51D		1750	59.68	9.79	NO	—	
MW52S		1740	12.85	5.41	NO	—	
MW53I		1738	34.20	7.24	NO	—	
MW54I		1730	35.60	13.98	NO	—	
MW55D		1733	60.60	13.56	NO	—	
MW56S		1734	12.68	3.86	NO	—	
MW57I		1735	34.78	7.34	NO	—	
MW58I		1719	33.85	10.68	NO	—	
MW59S		1737	11.75	3.88	NO	—	
Unknown01		1551	12.81	6.82	NO	—	

* All measurements to the nearest 0.01 foot

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS01	SAMPLE ID: NASP18-GS01-0506 / DATE: 5-4-06

PURGING DATA

(1.9 TD)

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 6.5 feet to 11.5 feet	STATIC DEPTH TO WATER (feet): 3.17	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
5.3 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 0700	PURGING ENDED AT: 0720	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0705	3.0	3.00	.600	3.26	6.15	21.64	885	0.55	30	Yellow	petrol
0710	1.5	4.5	.300	3.27	6.18	21.64	928	0.89	26	"	"
0715	1.5	6.0	.300	3.28	6.19	21.63	974	0.95	24	"	"
0720	1.5	7.5	.300	3.29	6.19	21.64	984	0.92	19	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Cuiti Oar /Tetra Tech	SAMPLER(S) SIGNATURES: Cuiti Oar	SAMPLING INITIATED AT: 0720	SAMPLING ENDED AT: 0730 ~~0735~~ 0740
PUMP OR TUBING DEPTH IN WELL (feet): 8	SAMPLE PUMP FLOW RATE (mL per minute): 300	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: C. Oz

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS01205DC

Sample Location: GS01

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	
Date: 05-4-06	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Time: 0745								
Method: Peristaltic	yellow	6.19	984	19	0.92	21.64		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 0801

Concentration: 0.5 mg/L

Notes:

Alkalinity: Analysis Time: 0756

Equipment: CHEMetrics CHEMetrics (Range: 50-500 mg/L)

CHEMetrics: 350 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 0759

CHEMetrics: 350 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☒ 0 - 1.0 mg/L ☐ 1 - 12 mg/L Analysis Time: 0754

CHEMetrics: 0.15 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 0800

Concentration: >5.0 mg/L

Notes:

Sulfide:

Equipment: HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GI01	SAMPLE ID: NASP18-GI01-0506 / DATE: 5-4-06

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 44.3 feet to 54.3 feet	STATIC DEPTH TO WATER (feet): 7.53	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 49	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 49	PURGING INITIATED AT: 0700	PURGING ENDED AT: 0715	TOTAL VOLUME PURGED (Liters): 4.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0725 ~~0720 0725~~	1.5	1.5	.300	7.60	5.62	21.80	97	0.87	16	clear	none
0710	1.5	3.0	.300	7.59	5.63	21.85	97	0.75	12	"	"
0715	1.5	4.5	.300	7.59	5.62	21.92	97	0.69	11	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: [illegible] /Tetra Tech	SAMPLER(S) SIGNATURES: [illegible]	SAMPLING INITIATED AT: 0715	SAMPLING ENDED AT: 0725
PUMP OR TUBING DEPTH IN WELL (feet): 49	SAMPLE PUMP FLOW RATE (mL per minute): 300	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: C. Ock
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GI01-0501
Sample Location: GI01
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	
Date:	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Time: 745								
Method: Peristaltic	clear	5.62	97	11	0.69	21.92		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890 Analysis Time: 0815
Concentration: 1.5 mg/L
Notes:

Alkalinity: Analysis Time: 0808
Equipment: CHEMetrics CHEMetrics (Range: _____mg/L)
CHEMetrics: 13 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: 0814
CHEMetrics: 32 mg/L
Notes:

Dissolved Oxygen:
Equipment: CHEMetrics Range ☐ 0 - 1.0 mg/L ☐ 1 - 12 mg/L Analysis Time: 0811
CHEMetrics: .15 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C Analysis Time: 0814
Concentration: 0.5 mg/L
Notes:

Sulfide:
Equipment : HACH DR890 Analysis Time: _____
Concentration: _____ mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- G502	SAMPLE ID: NASP18-G502-0406 / DATE: 4/25/06

PURGING DATA

TD=10.13

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 6.5 feet to 10.13 feet	STATIC DEPTH TO WATER (feet): 3.09	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
4.28 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1622	PURGING ENDED AT: 1637	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1627	2.5	2.5	.500	3.31	6.18	23.09	274	.50	25	clear	none
1632	2.5	5.0	.500	3.33	6.12	23.03	254	.10	13	"	"
1637	2.5	7.5	.500	3.33	6.13	23.11	258	.07	10	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1637	SAMPLING ENDED AT: 1650
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GI02-0406	SAMPLE ID: NASP18-GI02-0406
DATE: 4-25-06	

PURGING DATA

TD = 53.15

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 47.6 feet to 53.15 feet	STATIC DEPTH TO WATER (feet): 8.67	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 26.44 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 2 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50.0	PURGING INITIATED AT: 1507	PURGING ENDED AT: 1522	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1312	2.5	2.5	.500	8.75	5.25	23.49	49	.16	18	clear	petrol
1317	2.5	5.0	.500	8.75	5.05	23.46	49	.11	9	"	"
1322	2.5	7.5	.500	8.74	4.95	23.48	49	.16	8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1522	SAMPLING ENDED AT: 1533
PUMP OR TUBING DEPTH IN WELL (feet): 50.0	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Oily sheen on purge water

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- 6503	SAMPLE ID: NASP18-6503-0506 / DATE: 5-4-06

PURGING DATA

TD = 12.03

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.4 feet to 12.4 feet	STATIC DEPTH TO WATER (feet): 4.31	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
4.7 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 0917	PURGING ENDED AT: 0942	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0922	2.0	2.0	0.400	4.33	5.98	22.41	74	Sensor malfunctioning	37	clear	petrol
0927	2.0	4.0	0.400	4.32	5.37	22.34	74	"	43	"	"
0932	1.0	5.0	.200	4.32	5.37	22.42	75	"	48	"	"
0937	1.0	6.0	.200	4.32	5.62	22.54	67	"	41	"	"
0942	1.0	6.0	.200	4.32	5.44	22.68	69	1.26	20	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

0945

SAMPLED BY (PRINT) / AFFILIATION: [illegible] /Tetra Tech	SAMPLER(S) SIGNATURES: [illegible]	SAMPLING INITIATED AT: 0942	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet): 8	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS: took last turb reading in front of flow thru cell

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

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

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: [illegible]
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NAS18-GS23-050[illegible]
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Date: 5-14-08								
Time:								
Method: Peristaltic	clear	5.44	69	20	1.28	22.68		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890
Analysis Time: 1024
Concentration: 0.9 mg/L
Notes:

Alkalinity:
Analysis Time: 1019
Equipment: CHEMetrics
CHEMetrics (Range: _____ mg/L)
CHEMetrics: <10 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT
CHEMetrics (Range: _____ mg/L)
Analysis Time: 1023
CHEMetrics: 25 mg/L
Notes:

Dissolved Oxygen:
Equipment:
CHEMetrics Range ☐ 0 - 1.0 mg/L ☐ 1 - 12 mg/L
Analysis Time: 1021
CHEMetrics: 0.5 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C
Analysis Time: 1027
Concentration: 5.0 mg/L
Notes:

Sulfide:
Equipment : HACH DR890
Analysis Time:
Concentration: mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- GI03	SAMPLE ID: NASP18-GI03-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.41	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 58.41 Liters

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 54.2'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54.2	PURGING INITIATED AT: 0755	PURGING ENDED AT: 0820	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0805	1.0	1.0	100	9.42	5.29	21.63	~~21.63~~ 0.052	1.00	0.53	clear	None
0810	0.5	1.5	100	9.42	5.03	21.99	0.046	0.37	0.21	clear	None
0815	0.5	2.0	100	9.42	5.04	22.00	0.037	0.32	0.16	clear	None
0820	0.5	2.5	100	9.42	5.05	22.03	0.041	0.30	0.02	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0820	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet): 54.2'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss metals collected

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GS04	SAMPLE ID: NASP18-GS04-0506 / DATE: 5/3/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 0.9 feet to 10.0 feet	STATIC DEPTH TO WATER (feet): 4.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 11.27 – 4.50 × .16 = 4.1 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~6.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~5.0'	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1407	TOTAL VOLUME PURGED (Liters): 13.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1340	0	0	500	4.50	5.57	22.79	.300	1.45	12.29	clear	~~[illegible]~~ none
1349	4.5	4.5	500	4.52	5.68	22.61	.268	0.61	9.96	clear	none
1358	4.5	9.0	500	4.51	5.70	22.41	.268	0.42	7.47	clear	none
1407	4.5	13.5	500	4.51	5.71	22.39	.268	0.33	4.13	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1433
PUMP OR TUBING DEPTH IN WELL (feet): ~5.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: JB
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS04-0506
Sample Location: GS04
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	
Date: 5/3/06	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Time: 1410								
Method: Peristaltic	clear	5.71	.268	4.13	0.33	22.39		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890 Analysis Time: 1435
Concentration: 1.0 mg/L
Notes:

Alkalinity:
Equipment: CHEMetrics CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1440
CHEMetrics: 80 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1445
CHEMetrics: 50 mg/L
Notes:

Dissolved Oxygen:
Equipment: CHEMetrics Range ☒ 0 - 1.0 mg/L ☒ 1 - 12 mg/L Analysis Time: 1450
CHEMetrics: 1.0 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C Analysis Time: 1455
Concentration: 2.0 mg/L
Notes:

Sulfide:
Equipment : HACH DR890 Analysis Time:
Concentration: mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- GI04	SAMPLE ID: NASP18-GI04-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 47 feet to 57 feet	STATIC DEPTH TO WATER (feet): 9.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 57.35 Liters

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 52'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 52'	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1000	1.0	1.0	100	9.53	4.88	22.08	0.042	0.52	0.53	clear	None
1005	0.5	1.5	100	9.53	4.90	22.11	0.043	0.45	0.81	clear	None
1010	0.5	2.0	100	9.53	4.92	22.10	0.043	0.44	1.03	clear	None
1015	0.5	2.5	100	9.53	4.90	22.13	0.042	0.43	1.12	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1035
PUMP OR TUBING DEPTH IN WELL (feet): 52'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss metals collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- G505	SAMPLE ID: NASP18-G505 - 0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.4 feet to 12.4 feet	STATIC DEPTH TO WATER (feet): 4.45	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0.0014 15 = 0.0021 = 375.021
_____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1105	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1050	1.0	1.0	100	4.45	5.54	23.43	0.049	0.53	16.04	clear	None
1055	0.5	1.5	100	4.45	5.50	23.45	0.048	0.56	10.21	clear	None
1100	0.5	2.0	100	4.47	5.46	23.47	0.048	0.61	11.55	clear	None
1105	0.5	2.5	100	4.47	5.45	23.86	0.049	0.62	12.18	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 8'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss metals collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- G I05	SAMPLE ID: NASP18- G I05 - 0406 / DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 48.1 feet to 58.1 feet	STATIC DEPTH TO WATER (feet): 10.22	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53'	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1155	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1140	1.0	1.0	100	10.23	4.56	23.44	0.038	0.43	1.96	clear	None
1145	0.5	1.5	100	10.23	4.58	23.45	0.037	0.43	1.04	clear	None
1150	0.5	2.0	100	10.23	4.60	23.46	0.036	0.42	0.68	clear	None
1155	0.5	2.5	100	10.23	4.61	23.47	0.035	0.42	0.12	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1155	SAMPLING ENDED AT: 1215
PUMP OR TUBING DEPTH IN WELL (feet): 53'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss Metals collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18-GS06	SAMPLE ID: NASP18-GS06-0506	DATE: 5-3-06

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.1 feet to 12.1 feet	STATIC DEPTH TO WATER (feet): 5.53	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 4.0 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 1530	PURGING ENDED AT: 1545	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1535	2.0	2.0	.400	5.63	5.01	23.44	90	1.87	23	clear	NO
1540	2.0	4.0	.400	5.61	4.70	23.17	95	1.07	16	"	"
1545	2.0	6.0	.400	5.61	4.60	23.11	102	1.08	9	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odell /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 9	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
~~VOCs~~	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
~~TOC~~	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
~~TRPH~~	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
~~PAHs~~	2	AG	1L	NONE	NONE	--	8270	VT
~~EDB~~	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Alk + Anions~~	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
~~Fe+Mn (unfilt~~	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP
~~Fe+Mn filter~~	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: C. Odom
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS06-0506
Sample Location: GS06
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Date: 5-2-06								
Time:								
Method: Peristaltic	clear	4.60	102	9	1.08	23.11		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890
Analysis Time: 1623
Concentration: 0.0 mg/L
Notes:

Alkalinity:
Equipment: CHEMetrics
CHEMetrics (Range: 10-100 mg/L)
Analysis Time: 1616
CHEMetrics: <10 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT
CHEMetrics (Range: _____ mg/L)
Analysis Time: 1619
CHEMetrics: 18 mg/L
Notes:

Dissolved Oxygen:
Equipment:
CHEMetrics Range ☐ 0 - 1.0 mg/L ☐ 1 - 12 mg/L
Analysis Time: 1621
CHEMetrics: 3.0 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C
Analysis Time: 1622
Concentration: 0.05 mg/L
Notes:

Sulfide:
Equipment: HACH DR890
Analysis Time: _____
Concentration: _____ mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- 6I06	SAMPLE ID: NASP18-6I06-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 32.9 feet to 42.9 feet	STATIC DEPTH TO WATER (feet): 9.60	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0.0014 45 + 375 = 375.063
_____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37'	PURGING INITIATED AT: 1325	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1335	1.0	1.0	100	9.60	4.61	23.50	0.053	0.50	10.22	clear	None
~~1340~~	0.5	1.5	100	9.60	4.65	23.52	0.052	0.47	8.41	clear	None
1345	0.5	2.0	100	9.60	4.69	23.49	0.051	0.41	6.06	clear	None
1350	0.5	2.5	100	9.60	4.72	23.46	0.050	0.38	2.12	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R McGuire	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 37'	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss Metals Collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- G507	SAMPLE ID: NASP18-G507-0506
DATE: 5-3-06	

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH 0.9 feet to 10.9 feet	STATIC DEPTH TO WATER (feet): 4.82	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
3.69 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 1837	PURGING ENDED AT: 1852	TOTAL VOLUME PURGED (Liters): 4.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/l or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1842	1.5	1.5	.300	5.00	5.54	23.76	186	0.96	27	clear	petro
1847	1.5	3.0	.300	5.03	5.56	23.59	184	0.66	16	"	"
1852	1.5	4.5	.300	5.02	5.57	23.53	184	0.73	10	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1852	SAMPLING ENDED AT: 1910
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Total Lead~~	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: well ~~[illegible]~~ 60
diss & total Iron for Pb

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- G508	SAMPLE ID: NASP18-G508-0406	DATE: 4/27/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.10	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 13.42 _____Liters

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0920	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0905	1.0	1.0	100	5.10	5.18	21.88	0.072	0.48	12.36	clear	None
0910	0.5	1.5	100	5.10	5.20	21.90	0.073	0.43	6.22	clear	None
0915	0.5	2.0	100	5.10	5.20	21.93	0.075	0.41	1.01	clear	None
0920	0.5	2.5	100	5.10	5.20	21.95	0.078	0.39	0.56	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): 8'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss Metals collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- G509	SAMPLE ID: NASP18-G509-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3.1 feet to 13.1 feet	STATIC DEPTH TO WATER (feet): 6.34	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8'	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1255	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1240	1.0	1.0	100	6.35	4.52	23.01	0.065	0.85	40.2	LT Yellow	None
1245	0.5	1.5	100	6.35	4.53	22.98	0.066	0.80	21.4	LT Yellow	None
1250	0.5	2.0	100	6.35	4.52	23.01	0.067	0.082	11.01	Clear	None
1255	0.5	2.5	100	6.35	4.53	23.04	0.068	0.079	6.66	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 8'	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS: Diss Metals Collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS10	SAMPLE ID: NASP18-GS10-0506 / DATE: 5/3/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.3 feet to 12.3 feet	STATIC DEPTH TO WATER (feet): 4.81	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 12.72 – 4.81 .16
4.6 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	PURGING INITIATED AT: 1835	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1835	0	0	500	4.81	6.57	23.51	.101	1.82	6.87	clear	none
1845	5	5	500	4.85	6.37	22.85	.095	0.77	6.15	"	"
1855	5	10	500	4.85	6.29	22.77	.094	0.76	5.44	"	"
1900	5	15	500	4.85	6.27	22.75	.094	0.75	4.12	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1705	SAMPLING ENDED AT: 1715
PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- GS11	SAMPLE ID: NASP18-GS11-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.76	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5'	PURGING INITIATED AT: 1620	PURGING ENDED AT: 1710	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1620	0	0	0.2	4.76	9.54	23.05	99	38.43	145	Tan	None
1630	2.0	2.0	0.2	4.76	9.06	22.78	97	4.44	59.8	Tan	None
1640	2.0	4.0	0.2	4.76	8.85	22.85	97	1.92	54.5	Tan	None
1650	2.0	6.0	0.2	4.76	8.79	22.82	97	1.67	53.0	Lt. Tan	None
1700	2.0	8.0	0.2	4.76	8.64	22.78	97	1.66	51.2	Lt. Tan	None
1710	2.0	10.0	0.2	4.76	8.63	22.79	98	1.61	48.5	Lt. Tan	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1715	SAMPLING ENDED AT: 1747
PUMP OR TUBING DEPTH IN WELL (feet): 11.5'	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP	
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~	DH
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT	
PAHs	2	AG	1L	NONE	NONE	--	8270	VT	
~~EDB~~	~~2~~	~~PE~~	~~250 mL~~	~~$Na_2S_2O_3$~~	~~NONE~~		504.1	APP	DH
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~	DH

REMARKS:

Tot. Metals	1	PE	250mL	HNO3	None	<2	APP
Diss. Metals	1	PE	250mL	HNO3	None	<2	APP
EDB	3	CG	40mL	None	None	—	RFPP

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS12	SAMPLE ID: NASP18-GS12-0406 / DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.2 feet to 12.2 feet	STATIC DEPTH TO WATER (feet): 4.90	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 12.61 4.90 4.7 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2	PURGING INITIATED AT: 1415	PURGING ENDED AT: 1435	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1415	–	–	500	4.90	–	–	–	–	–	CLEAR	NONE
1425	5.0	5.0	500	4.92	6.01	22.61	83	9.93	42.3	CLEAR	NONE
1430	2.5	7.5	500	4.92	6.06	22.63	83	9.89	28.4	CLEAR	NONE
1435	2.5	10.0	500	4.92	6.10	22.68	83	9.87	17.6	CLEAR	NONE
	SAMPLE TIME			1437							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1437	SAMPLING ENDED AT: 1457
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
	1	PE	250 mL	HNO_3			Diss. Fe, Mn	

REMARKS:
D.O. > 20%, BUT STABLE AT SAMPLE TIME

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- 6S13	SAMPLE ID: NASP18-GS13-0406 / DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 2.7 feet to ~~13.00~~ 12.7 feet	STATIC DEPTH TO WATER (feet): 5.33	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 4.7 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.7	PURGING INITIATED AT: 1308	PURGING ENDED AT: 1333	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1308	–	–	400	5.33	–	–	–	–	–	CLOUDY	NONE
1318	4.0	4.0	400	5.35	5.70	22.17	54	12.33	97.6	CLOUDY	NONE
1323	2.0	6.0	400	5.35	5.73	22.19	54	9.22	63.8	CLOUDY	NONE
1328	2.0	8.0	400	5.35	5.78	22.18	54	9.26	31.6	CLEAR	NONE
1333	2.0	10.0	400	5.35	5.81	22.13	55	9.27	19.4	CLEAR	NONE
		SAMPLE TIME 1335									

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1335	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet): 7.7	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
	1	PE	250 mL	HNO_3			DISS. Fe, Mn	

REMARKS:
D.O. > 20%, BUT STABLE AT SAMPLE TIME.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS14	SAMPLE ID: NASP18-GS14-0406
DATE: 4/27/06	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3.39 feet to 13.39 feet	STATIC DEPTH TO WATER (feet): 6.00	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH 13.39 – STATIC DEPTH TO WATER 6.00) X WELL CAPACITY
only fill out if applicable) 4.5 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.4	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.4	PURGING INITIATED AT: 1256	PURGING ENDED AT: 1321	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1256	–	–	400	6.00	–	–	–	–	–	CLEAR	NONE
1306	4.0	4.0	400	6.03	5.43	22.32	64	1.35	20.4	"	"
1311	2.0	6.0	400	6.03	5.50	22.29	64	1.35	18.4	"	"
1316	2.0	8.0	400	6.03	5.47	22.25	64	1.12	16.8	"	"
1321	2.0	10.0	400	6.03	5.51	22.23	64	0.99	14.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR / Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1323	SAMPLING ENDED AT: 1343
PUMP OR TUBING DEPTH IN WELL (feet): 8.4	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
REMARKS:	1	PE	250mL	HNO_3			Diss. Fe/Mn	

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18- GS15	SAMPLE ID: NASP18-GS15-0406	DATE: 4/27/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 9.6 feet to 19.6 feet	STATIC DEPTH TO WATER (feet): 14.07	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH 14.6 – STATIC DEPTH TO WATER 14.07) X WELL CAPACITY
only fill out if applicable)
3.3 Liters

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.0	PURGING INITIATED AT: 1423	PURGING ENDED AT: 1448	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1423	–	–	300	14.07	–	–	–	–	–	CLEAR	NONE
1433	3.0	3.0	300	14.09	5.79	22.70	85	0.94	39.2	CLEAR	NONE
1438	1.5	4.5	300	14.09	5.80	22.60	84	1.19	29.3	CLEAR	NONE
1443	1.5	6.0	300	14.09	5.78	22.56	85	1.21	21.7	CLEAR	NONE
1448	1.5	7.5	300	14.09	5.77	22.54	85	1.12	18.6	CLEAR	NONE
	SAMPLE TIME 1450										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet): 10.0	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
REMARKS:	1	PE	250 mL	HNO_3			Diss. Fe, Mn	

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- GS16	SAMPLE ID: NASP18-GS16-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.60	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1505	1.0	1.0	100	9.61	4.76	24.42	0.104	1.10	13.46	clear	None
1510	0.5	1.5	100	9.61	4.77	24.39	0.105	1.18	7.15	clear	None
1515	0.5	2.0	100	9.61	4.78	24.37	0.105	1.24	4.26	clear	None
1520	0.5	2.5	100	9.61	4.79	24.38	0.106	1.29	0.02	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: ~~1535~~ 1520	SAMPLING ENDED AT: 1540
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS: Diss Metals collected.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GS17	SAMPLE ID: NASP18-GS17-0406 / DATE: 4-27-06

PURGING DATA

TD = 12.32

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 3.26	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
5.5 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 1103	PURGING ENDED AT: 1118	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1108	2.0	2.0	.400	3.53	6.25	20.69	349	0.29	3	clear	none
1113	2.0	4.0	.400	3.53	6.21	20.46	359	0.19	2	"	"
1118	2.0	6.0	.400	3.52	6.19	20.45	358	0.14	2	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 1125

SAMPLED BY (PRINT) / AFFILIATION: [illegible] /Tetra Tech	SAMPLER(S) SIGNATURES: [illegible]	SAMPLING INITIATED AT: 1118	SAMPLING ENDED AT: 1132
PUMP OR TUBING DEPTH IN WELL (feet): 9	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

GS ~~18~~ 18

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18- GS18	SAMPLE ID: NASP18-GS18-0406	DATE: 4-25-06

PURGING DATA

19.32 TD

WELL DIAMETER (inches): 0.75"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.54	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 0.89 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (Liters): 1.5L

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1305	1.5	1.5	.300	15.90	5.89	23.37	231	2.07	413	dk gry	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES: Curtis Odom	SAMPLING INITIATED AT: 1335	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 18	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: (Yes) (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:
well dry @ 1307. will let recharge then sample, no purge.

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

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

No Rings or TOC

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GS19	SAMPLE ID: NASP18-GS19-0506 / DATE:

PURGING DATA

WELL DIAMETER (inches): 1.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) _____Liters SEE Remarks

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: 1044	PURGING ENDED AT: 1114	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1054	4.0	4.0	.400	—	5.13	21.74	126	0.98	50.0	clear	none
1059	1.0	5.0	.200	—	5.07	22.05	124	0.80	41.9	clear	none
1104	1.0	6.0	.200	—	5.13	22.20	119	0.63	27	"	"
1109	1.0	7.0	.200	—	5.30	22.23	117	0.63	21	"	"
1114	1.0	8.0	.200	—	5.20	22.26	116	0.66	16	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

STE 1130

SAMPLED BY (PRINT) / AFFILIATION: Cindy Dan /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): —	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
~~VOCs~~	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
~~TOC~~	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
~~TRPH~~	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
~~PAHs~~	2	AG	1L	NONE	NONE	--	8270	VT
~~EDB~~	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Alk + Anions~~	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
~~Fe+Mn (unfilt~~	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
~~Fe+Mn filter~~	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS: rise, twisted downhole. Probe cannot go any further than @ 1 foot down

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: [illegible]

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS19-T06

Sample Location: GS19

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

Date: 5-3-06	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Time:								
Method: Peristaltic	clear	5.20	116	16	0.66	22.26		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 1153

Concentration: 0.4 mg/L

Notes:

Alkalinity: Analysis Time: 1152

Equipment: CHEMetrics CHEMetrics (Range: _____ mg/L)

CHEMetrics: <10 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 1155

CHEMetrics: 35 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☑ 0 - 1.0 mg/L ☐ 1 - 12 mg/L Analysis Time: 1148

CHEMetrics: 0.8 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 1142

Concentration: 2.5 mg/L

Notes:

Sulfide:

Equipment : HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GS20	SAMPLE ID: NASP18-GS20-0506 / DATE: 5-4-06

PURGING DATA

TD: 19.75

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15	PURGING INITIATED AT: 1056	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1101	1.5	1.5	.300	—	4.08	22.17	122	0.86	95	tan	none
1126	1.5	9.0	.300	—	5.61	22.38	126	0.62	55	clear	no
1151	1.5	16.5	.300	—	5.66	22.37	126	0.55	43	clear	none
1201	2.0	18.5	.200	—	5.54	22.44	126	0.55	82	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 1212

SAMPLED BY (PRINT) / AFFILIATION: [illegible] /Tetra Tech	SAMPLER(S) SIGNATURES: [illegible]	SAMPLING INITIATED AT: 1201	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 15	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:
Rises too small for water probe to fit.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS21	SAMPLE ID: NASP18-GS21-0406 / DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 9.67 feet to 19.67 feet	STATIC DEPTH TO WATER (feet): 3.21	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.1 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.6	PURGING INITIATED AT: 1607	PURGING ENDED AT: 1627	TOTAL VOLUME PURGED (Liters): 4.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/l or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1607	–	–	200	3.21	–	–	–	–	–	CLOUDY	NONE
1612	1.0	1.0	200	3.34	4.92	22.35	63	9.98	9.56	CLEAR ~~CLOUDY~~	NONE
1617	1.0	2.0	200	3.34	4.91	22.24	62	9.98	8.56	CLEAR	NONE
1622	1.0	3.0	200	3.34	5.06	22.35	62	9.97	7.64	CLEAR	NONE
1627	~~4.0~~ 1.0	4.0			4.90	22.22	62	9.97	6.59	CLEAR	NONE
	SAMPLE TIME 1630										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1630	SAMPLING ENDED AT: 1650
PUMP OR TUBING DEPTH IN WELL (feet): 14.6	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
	1	PE	250 mL	HNO_3			Diss. Fe, Mn	

REMARKS:
D.O. > 20%, BUT STABLE AT SAMPLE TIME.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- ~~MW~~ GS 22	SAMPLE ID: NASP18- ~~MW~~ GS 22-0506
DATE: 5/1/06	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet / 7.72	STATIC DEPTH TO WATER (feet): 4.5	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
17 _____Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
0 .0014 x 17.72 + 1000mL _____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~14.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~14.5	PURGING INITIATED AT: 1820	PURGING ENDED AT: 1826	TOTAL VOLUME PURGED (Liters): 3

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1820	0	0	500	4.52	5.48	22.35	.139	1.13	31.6	clear	none
1822	1	1	500	4.56	5.26	21.96	.140	1.20	18.43	"	"
1824	1	2	500	4.60	5.26	21.95	.140	1.20	13.61	"	"
1826	1	3	500	4.60	5.26	21.93	.140	1.20	11.58	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1830	SAMPLING ENDED AT: 1848
PUMP OR TUBING DEPTH IN WELL (feet): ~14.5	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- Gm24	SAMPLE ID: NASP18-Gm24-0506	DATE: 5/01/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 102 feet to 127 feet	STATIC DEPTH TO WATER (feet): 3.85	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
1.5 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0	PURGING INITIATED AT: 1820	PURGING ENDED AT: 1835	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1825	2.5	2.5	.500	3.94	4.72	21.64	176	1.63	9	clear	None
1830	2.5	5.0	.500	3.94	4.72	21.54	172	1.54	3	"	"
1835	2.5	7.5	.500	3.95	4.75	21.49	169	1.25	2	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 1840

SAMPLED BY (PRINT) / AFFILIATION: Cristi Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1835	SAMPLING ENDED AT: 1845
PUMP OR TUBING DEPTH IN WELL (feet): 11.0	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- GM25	SAMPLE ID: NASP18-GM25-0406	DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 12.79 _____Liters

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0.0014 15 = 0.021 + 375 = 375.021 _____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.20	PURGING INITIATED AT: 1730	PURGING ENDED AT: 1800	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1740	1.0	1.0	100	6.78	5.82	22.79	0.115	0.48	10.40	Clear	None
1745	0.5	1.5	100	6.78	5.79	22.77	0.015	0.43	6.20	Clear	None
1750	0.5	2.0	100	6.78	5.77	22.75	0.112	0.39	4.19	Clear	None
1800	0.5	2.5	100	6.78	5.75	22.74	0.109	0.30	2.02	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1800	SAMPLING ENDED AT: 1815
PUMP OR TUBING DEPTH IN WELL (feet): 8.20	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250 HNO3 None Diss Metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GS26	SAMPLE ID: NASP18-GS26-0506	DATE: 5/3/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 1.27 feet to 11.2 feet	STATIC DEPTH TO WATER (feet): 4.25	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
11.27 4.3 Liters 4.25 .16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1106	TOTAL VOLUME PURGED (Liters): 18.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	0	0	500	4.25	5.86	23.21	.311	1.42	6.92	clear	fuel
1039	4.5	4.5	500	4.36	6.05	22.88	.275	0.46	3.13	clear	"
1048	4.5	9.0	500	4.38	5.93	22.92	.271	0.38	2.81	clear	"
1057	4.5	13.5	500	4.40	5.94	22.91	.270	0.35	2.44	"	"
1106	4.5	18.0	500	4.41	5.94	22.91	.269	0.33	0.31	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bowers /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1140
PUMP OR TUBING DEPTH IN WELL (feet): ~7.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: JB

Field Analyst: JB

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS26-050[illegible]

Sample Location: GS26

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Date: 5/3/06 Time: 1110								
Method: Peristaltic	clear	5.94	~~22.91~~ .269	0.31	0.33	22.91		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 1140

Concentration: 1.1 mg/L

Notes:

Alkalinity: Analysis Time: 1145

Equipment: CHEMetrics CHEMetrics (Range: 10-100 mg/L)

CHEMetrics: 60 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1150

CHEMetrics: 70 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☒ 0 - 1.0 mg/L ☐ ~~1~~ - 12 mg/L Analysis Time: 1155

CHEMetrics: 1.0 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 1200

Concentration: 3.0 mg/L

Notes:

Sulfide:

Equipment : HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18- GI27	SAMPLE ID: NASP18-GI27-0506	DATE: 5/3/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 19.6 feet to 24.6 feet	STATIC DEPTH TO WATER (feet): 8.64	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 24.61 _____Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 25.00 + 1000mL _____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~22.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~22.0'	PURGING INITIATED AT: 1212	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (Liters): 4

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1212	0	0	500	8.64	5.41	25.10	.164	4.60	29.9	clear	fuel
1214	1	1	500	8.66	5.40	22.84	.141	2.44	22.0	"	"
1216	1	2	500	8.66	5.40	22.47	.140	1.68	19.3	"	"
1218	1	3	500	8.69	5.40	22.23	.144	0.91	18.7	"	"
1220	1	4	500	8.74	5.41	22.24	.146	0.76	18.4	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): ~22.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: JB
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GI27-050
Sample Location: GI27
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 5/3/06 Time: 1220	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Method: Peristaltic	clear	5.41	.146	18.4	0.76	22.24		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890 Analysis Time: 1240
Concentration: 2.4 mg/L
Notes:

Alkalinity: Analysis Time: 1245
Equipment: CHEMetrics CHEMetrics (Range: 10-100 mg/L)
CHEMetrics: 70 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1250
CHEMetrics: 30 mg/L
Notes:

Dissolved Oxygen:
Equipment: CHEMetrics Range ☐ 0 - 1.0 mg/L ☒ 1 - 12 mg/L Analysis Time: 1255
CHEMetrics: 1.0 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C Analysis Time: 1300
Concentration: 2.0 mg/L
Notes:

Sulfide:
Equipment : HACH DR890 Analysis Time: _____
Concentration: _____ mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GS28	SAMPLE ID: NASP18-GS28-0406 / DATE: 4-27-06

PURGING DATA

TP = 11.55

WELL DIAMETER (inches): 1.25"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 1.5 feet to 11.5 feet	STATIC DEPTH TO WATER (feet): 4.36	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
1.63 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0945	TOTAL VOLUME PURGED (Liters): 8.75

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0925	2.5	2.5	.500	4.62	6.57	22.40	246	0.61	202	reddish cloudy	none
0930	2.5	5.0	.500	4.62	6.30	22.42	212	0.41	123	"	"
0935	1.25	6.25	.250	4.50	6.36	22.60	209	.30	19	"	"
0940	1.25	7.50	.250	4.50	5.84	23.19	156	.19	16	clear	none
0945	1.25	8.75	.250	4.49	5.76	23.11	142	0.17	14	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 0950

SAMPLED BY (PRINT) / AFFILIATION: [illegible] /Tetra Tech	SAMPLER(S) SIGNATURES: [illegible]	SAMPLING INITIATED AT: 0945	SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	SAMPLE PUMP FLOW RATE (mL per minute): 250 [redacted]	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- GI 29	SAMPLE ID: NASP18-GI29-0406 / DATE: 4-27-06

PURGING DATA

TD = 22.22

WELL DIAMETER (inches): 1.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 18.22 feet to 22.22 feet	STATIC DEPTH TO WATER (feet): 9.09	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	PURGING INITIATED AT: 0825	PURGING ENDED AT: 0840	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0830	2.5	2.5	.500	9.28	4.80	22.05	76	.21	1.9	clear	None
0835	2.5	5.0	.500	9.28	4.75	22.17	73	.12	0.5	"	"
0840	2.5	7.5	.500	9.28	4.74	22.21	73	.10	0.6	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

st = 0845

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0840	SAMPLING ENDED AT: 0855
PUMP OR TUBING DEPTH IN WELL (feet): 20.5	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

NA

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18-GS30	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 4.23	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
1.42 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5	PURGING INITIATED AT: 1056	PURGING ENDED AT: 1116	TOTAL VOLUME PURGED (Liters): 8.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1101	2.0	2.0	.400	4.31	7.52	24.20	111	1.54	11	clear	None
1106	2.0	4.0	.400	4.32	6.36	23.91	123	1.33	9	clear	"
1111	2.0	6.0	.400	4.32	5.70	23.93	127	.84	7	"	"
1116	2.0	8.0	.400	4.31	5.68	23.87	124	.79	7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

St = 1120

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1116	SAMPLING ENDED AT: 1140
PUMP OR TUBING DEPTH IN WELL (feet): 5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: C. Dow

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-GS30-050[illegible]

Sample Location: GS30

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Date: 5-2-05								
Time: 1140								
Method: Peristaltic	clear	5.18	124	7	0.79	23.87		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH ~~DR890~~

Analysis Time: 1140

Concentration: 0.0 mg/L

Notes:

Alkalinity:

Equipment: CHEMetrics

CHEMetrics (Range: 10-100 / 100-400 mg/L)

Analysis Time: 1143

CHEMetrics: <10 mg/L

Notes:

Carbon Dioxide:

Equipment: ~~HACH Digital Titrator CA-DT~~ Chemets

CHEMetrics (Range: 10-100 mg/L)

Analysis Time: 1144

CHEMetrics: 17 mg/L

Notes:

Dissolved Oxygen:

Equipment:

CHEMetrics Range ☐ 0 - 1.0 mg/L ☑ 1 - 12 mg/L

Analysis Time: 1145

CHEMetrics: 5 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C

Analysis Time: 1140

Concentration: 0.7 mg/L

Notes:

Sulfide:

Equipment : HACH DR890

Analysis Time: [illegible]

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-GI31	SAMPLE ID: NASP18-GI31-0506 / DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 18.9 feet to 23.9 feet	STATIC DEPTH TO WATER (feet): 7.21	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 1.5 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1225	PURGING ENDED AT: 1240	TOTAL VOLUME PURGED (Liters): 4.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1230	1.5	1.5	.300	7.38	6.28	23.09	147	1.56	10	clear	none
1235	1.5	3.0	.300	7.37	6.04	23.16	148	1.48	9	"	"
1240	1.5	4.5	.300	7.37	6.04	23.08	147	.83	7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 1245

SAMPLED BY (PRINT) / AFFILIATION: Curtis Dan /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 21	SAMPLE PUMP FLOW RATE (mL per minute): 300	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	3	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18- MW32S	SAMPLE ID: NASP18-MW32S	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.93	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0'	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1430	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1350	0	0	0.15	4.93	9.42	25.49	227	5.06	103	Clear	None
1400	1.5	1.5	0.15	4.93	8.50	25.77	222	0.84	51.3	Clear	None
1410	1.5	3.0	0.15	4.93	8.31	25.44	214	0.41	27.1	Clear	None
1420	1.5	4.5	0.15	4.94	8.24	25.26	205	0.46	16.78	Clear	None
1430	1.5	6.0	0.15	4.94	8.21	25.34	201	0.57	16.44	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 12.0'	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP	
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~	DH
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT	
PAHs	2	AG	1L	NONE	NONE	--	8270	VT	
~~EDB~~	~~2~~	~~PE~~	~~250 mL~~	~~$Na_2S_2O_3$~~	~~NONE~~		~~504.1~~	~~APP~~	DH
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~	DH
REMARKS: Total Metals	1	PE	250 mL	HNO_3	None	<2		APP	
Diss. Metals	1	PE	250 mL	HNO_3	None	<2		APP	
EDB	3	CG	40 mL	None	None	—		RFPP	

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- MW33I	SAMPLE ID: NASP18-MW33I-0406	DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 9.96'	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 1110	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED (Liters): 12.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1110	0	0	0.15	9.96	8.47	24.26	168	1.92	56.6	Gray	HC
1120	1.5	1.5	0.15	10.25	8.45	24.30	156	0.80	66.9	Gray	HC
1130	1.5	3.0	0.15	10.22	8.48	24.46	149	0.12	113	Gray	HC
1140	1.0	4.0	0.10	10.20	8.39	24.77	161	0.11	232	Gray	HC
1150	1.0	5.0	0.10	10.08	8.33	24.96	171	0.08	352	Gray	HC
1200	1.0	6.0	0.10	10.02	8.32	25.06	172	0.07	413	Gray	HC
1210	2.0	8.0	0.20	10.46	8.35	25.00	177	0.06	535	Gray	HC
1220	2.0	10.0	0.20	10.53	8.43	24.99	175	0.05	742	Gray	HC
1230	2.0	12.0	0.20	10.61	8.43	25.09	175	0.05	767	Gray	HC

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1330
PUMP OR TUBING DEPTH IN WELL (feet): 34	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP	
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~	DH
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT	
PAHs	2	AG	1L	NONE	NONE	--	8270	VT	
~~EDB~~	~~2~~	~~PE~~	~~250 mL~~	~~$Na_2S_2O_3$~~	~~NONE~~		~~504.1~~	~~APP~~	DH
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~	DH

REMARKS:

Total Metal	1	PE	250mL	HNO_3	None	<2
Diss Metal	1	PE	250mL	HNO_3	None	<2
EDB	3	CG	40mL	None	None	—

- HC = Hydrocarbon

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW34D	SAMPLE ID: NASP18-MW34D-0406 / DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 50 feet to 60 feet	STATIC DEPTH TO WATER (feet): 9.90'	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59'	PURGING INITIATED AT: 0830	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (Liters): 16.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0830	0	0	0.2	9.90	7.00	22.04	189	26.4	360	Cloudy	HydroCarb.
0840	2.0	2.0	0.2	9.92	7.38	23.08	127	1.25	282	Cloudy	HC*
0850	2.0	4.0	0.2	9.92	7.53	23.33	116	0.53	253	Cloudy	HC
0900	2.0	6.0	0.2	9.92	7.43	23.58	115	0.47	142	SL. CL.	HC
0910	2.0	8.0	0.2	9.92	7.35	23.71	112	0.36	88.6	SL. CL.	HC
0920	2.0	10.0	0.2	9.92	6.98	23.75	111	0.30	59.9	SL. CL.	HC
0930	2.0	12.0	0.2	9.92	7.13	23.72	110	0.24	47.3	SL. CL.	HC
0940	2.0	14.0	0.2	9.92	6.82	23.74	110	0.21	46.2	SL. CL	HC
0950	2.0	16.0	0.2	9.92	7.07	23.69	110	0.21	44.7	SL. CL	HC

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 59'	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP	
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~	DH
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT	
PAHs	2	AG	1L	NONE	NONE	--	8270	VT	
~~EDB~~	~~2~~	~~PE~~	~~250 mL~~	~~$Na_2S_2O_3$~~	~~NONE~~		~~504.1~~	~~APP~~	DH
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	6010B	~~APP~~	DH

REMARKS:

Total Metals	1	PE	250	HNO_3	None	<2
Diss Metals	1	PE	250	HNO_3	None	<2
EDB	3	CG	40	None	None	—

*HC = Hydrocarbon

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

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

1 of 2

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18- MW35I	SAMPLE ID: NASP18-MW35I-0406	DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 9.05	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.3'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34.3	PURGING INITIATED AT: 1538 DH ~~1440~~ ~~1600~~	PURGING ENDED AT: 1710	TOTAL VOLUME PURGED (Liters): 15.90

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1540 DH ~~1440~~	400 mL	400 mL	200	11.15	6.98	24.37	104	0.46	78.4	Dark Brown	None
DH 15 ~~1450~~	1.75L	2.15	175	11.20	7.13	24.32	101	0.13	73.5	Dark Brown	None
DH 16 ~~1500~~	1.75	3.90	175	11.23	7.08	24.41	97	0.09	80.6	D. BRN	None
1610	1.5	5.40	150	11.07	6.97	24.64	94	0.08	196	D. BRN	None
1620	1.5	6.90	150	11.08	6.98	24.47	93	0.08	192	D. BRN	None
1630	1.5	8.40	150	11.10	6.94	24.44	91	0.08	242	D. BRN	None
1640	1.5	9.90	150	11.12	6.90	24.25	90	0.08	300	D. BRN	None
1650	2.0	11.90	200	11.67	6.92	24.05	92	0.07	274	D. BRN	None
1700	2.0	13.90	200	11.88	5.88	23.92	91	0.07	338	D. BRN	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW35I Cont.	SAMPLE ID: NASP18.MW35I.0406 / DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.3'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34.3	PURGING INITIATED AT: 1538	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters): 15.90

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1710	1.0	14.90	100	11.23	6.81	24.02	86	0.07	473	D. BRN	None
1720	1.0	15.90	100	11.03	6.74	24.05	85	0.07	470	D. BRN	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1725	SAMPLING ENDED AT: 1800
PUMP OR TUBING DEPTH IN WELL (feet): 34.3'	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
• VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~
• TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
• PAHs	2	AG	1L	NONE	NONE	--	8270	VT
• EDB	7	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Total Lead~~ metals	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~

REMARKS:
Total Metals 1 PE 250mL HNO_3 None <2 APP
Diss. metals 1 PE 250mL HNO_3 None <2 APP

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW36S	SAMPLE ID: NASP18-MW36S-0406 / DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 3.52	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5'	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1405	TOTAL VOLUME PURGED (Liters): 4.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1335	0	0	150mL	3.52	5.72	25.42	85	4.61	91.7	Cloudy	None
1345	1.5	1.5	150	3.52	5.57	25.13	82	0.85	14.83	Clear	None
1355	1.5	3.0	150	3.54	5.53	24.94	80	0.53	7.28	Clear	None
1405	1.5	4.5	150	3.54	5.53	24.95	80	0.53	6.42	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1452
PUMP OR TUBING DEPTH IN WELL (feet): 12.5'	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~

REMARKS:

Tot Metals	1	PE	250mL	HNO_3	None	<2
Diss Metals	1	PE	250mL	HNO_3	None	<2
EDB	3	CG	40mL	None	None	—

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- MW37S	SAMPLE ID: NASP18-MW37S-0406	DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 3.4	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0845	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (Liters): 16.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0845	0	0	0.2	3.40	5.98	23.97	159	0.85	213	Tan	None
0855	2.0	2.0	0.2	3.41	6.00	23.92	145	0.99	60.7	Clear	None
0900	2.0	4.0	0.2	3.41	6.02	24.07	146	0.89	39.1	Clear	None
0910	2.0	6.0	0.2	3.42	6.06	24.08	149	3.81	25.2	Clear	None
0920	2.0	8.0	0.2	3.42	6.07	24.19	148	2.97	24.0	Clear	None
0930	2.0	10.0	0.2	3.42	6.07	24.26	146	2.54	22.9	Clear	None
0940	2.0	12.0	0.2	3.42	6.02	24.44	146	1.95	24.2	Clear	None
0950	2.0	14.0	0.2	3.42	6.01	24.26	145	1.85	23.0	Clear	None
0955	2.0	16.0	0.2	3.42	6.00	24.00	144	1.68	24.6	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Hickey /Tetra Tech	SAMPLER(S) SIGNATURES: David Hickey	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 12.5'	SAMPLE PUMP FLOW RATE (mL per minute): ~~0~~ 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	HCl	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
~~EDB~~	~~2~~	~~PE~~	~~250 mL~~	~~$Na_2S_2O_3$~~	~~NONE~~		~~504.1~~	~~APP~~
~~Total Lead~~	~~1~~	~~PE~~	~~500 mL~~	~~HNO_3~~	~~NONE~~	~~<2~~	~~6010B~~	~~APP~~

REMARKS:

Tot. Metals	1	PE	250mL	HNO_3	None	<2
Diss. Metals	1	PE	250mL	HNO_3	None	<2
EDB	3	CG	40mL	None	None	—

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW38I	SAMPLE ID: NASP18-MW38-0508 / DATE: 5-3-08

PURGING DATA

WELL DIAMETER (inches): 2-0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 7.46	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1238	PURGING ENDED AT: 1323	TOTAL VOLUME PURGED (Liters): 12.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1243	2.5	2.5	.500	7.82	7.93	22.57	118	1.42	110	dk tan cloudy	None
1248	1.25	3.75	.250	7.75	8.14	23.06	119	0.50	112	"	"
1253	1.25	5.0	.250	7.76	8.28	23.11	119	0.21	120	"	"
1258	1.25	6.25	.250	7.76	8.11	23.15	125	0.18	120	"	"
1303	1.25	7.50	.250	7.76	7.36	23.17	134	0.14	188	"	"
1308	1.25	8.75	.250	7.76	6.83	23.21	151	0.15	248	"	"
1313	1.25	10.0	.250	7.77	6.86	23.41	161	0.15	240	"	"
1318	1.25	11.25	.250	7.71	6.79	23.38	157	0.13	281	"	"
1323	1.0	12.00	.200	7.70	6.81	23.38	155	0.14	287	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Dan /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1323	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet): 30	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: C. Odom

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-MW38-0506

Sample Location: MW38I

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

Date: / Time:	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV
Method: Peristaltic	clear	6.81	155	360	0.14	23.38	—

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 1409

Concentration: 5.4 mg/L

Notes:

Alkalinity:

Equipment: CHEMetrics CHEMetrics (Range: 10-100 50-500 mg/L) Analysis Time: 1404

CHEMetrics: 75 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 1407

CHEMetrics: 35 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☑ 0 - 1.0 mg/L ☐ 1 - 12 mg/L Analysis Time: 1403

CHEMetrics: 0.6 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 1408

Concentration: 0.6 mg/L

Notes:

Sulfide:

Equipment : HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- MW3 ~~DPT~~	SAMPLE ID: NASP18-MW3 ~~DPT~~ 0506	DATE: 5/2/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 75.00 _____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0 .0014 x 75.00 + 1000mL
1 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~70.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~70.0	PURGING INITIATED AT: 0710	PURGING ENDED AT: 0721	TOTAL VOLUME PURGED (Liters): 5.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0710 ~~0810~~	0	0	500	9.91	10.32	21.61	.242	-0.26	19.3	clear	none
0713 ~~0813~~	1.5	1.5	500	9.98	10.37	22.01	.245	-0.16	46.8	"	"
0715 ~~0815~~	1	2.5	500	10.01	10.37	22.05	.239	-0.12	27.4	"	"
0717 ~~0817~~	1	3.5	500	10.10	10.36	22.06	.229	-0.09	19.6	"	"
0719 ~~0819~~	1	4.5	500	10.11	10.29	22.11	.204	-0.04	18.3	"	"
0721	1	5.5	500	10.13	10.04	22.13	.194	0.00	18.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0730	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW40I	SAMPLE ID: NASP18-MW40-0506
DATE: 5-2-06	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 6.44	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 2.0 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1450	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (Liters): 11.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1455	1.5	1.5	.300	7.1	9.86	22.93	295	0.78	35.8	Hazed Black	None
1500	2.0	3.5	.400	7.29	9.96	22.71	294	0.65	42.2	"	"
1505	2.5	6.0	.500	7.51	9.89	22.58	322	0.33	59.9	"	"
1510	1.0	7.0	.200	7.14	9.89	22.79	329	0.28	61.7	"	"
1515	1.0	8.0	.200	6.94	9.79	23.00	333	0.25	63.2	"	"
1520	1.0	9.0	.200	6.92	9.59	23.20	369	0.23	67.3	"	"
1525	1.0	10.0	.200	6.90	9.34	23.06	409	0.21	64.0	"	"
1530	1.0	11.0	.200	6.88	8.98	23.05	443	0.21	66.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

STE 1545

SAMPLED BY (PRINT) / AFFILIATION: C. D. Ocon /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1600
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	~~3~~ 2	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Total Lead~~	~~1~~	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:
dissolved + total iron, TOC, Alk + Anions

NA well

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18

Project No.: 1112G00140

Sampled By: C. Doe

Field Analyst:

Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASPFS-MW40-0500

Sample Location: MW40I

Duplicate: ☐

Blank: ☐

SAMPLING DATA:

	Color	pH	S.C.	Turbidity	DO	Temp.	ORP
	Visual	Standard	mS/cm	NTU	mg/l	°C	mV
Date: 5-02-06							
Time: 1800							
Method: Peristaltic	Stained brown	8.88	443	66.8	0.21	23.05	

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 1614

Concentration: 5.0 mg/L

Notes:

Alkalinity:

Equipment: CHEMetrics CHEMetrics (Range: 100-1000 10-100 mg/L) Analysis Time: 1626

CHEMetrics: <10 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 1621

CHEMetrics: 30 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☑ 0 - 1.0 mg/L ☐ 1 - 12 mg/L Analysis Time: 1613

CHEMetrics: 0.1 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 1616

Concentration: 1.0 mg/L

Notes:

Sulfide:

Equipment : HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-MW41S	SAMPLE ID: NASP18-MW41S-0506 / DATE: 5/3/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.89	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
4.9 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~9.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~9.0'	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1500	0	0	500	4.89	5.76	23.38	.198	1.09	12.45	clear	none
1510	5	5	500	4.91	5.79	23.01	.191	0.55	8.59	clear	none
1520	5	10	500	5.02	5.78	23.02	.189	0.42	7.39	clear	none
1530	5	15	500	5.03	5.78	23.06	.184	0.35	6.93	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1540	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: JB
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-MW415-0506
Sample Location: MW415
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Turbidity NTU	DO mg/l	Temp. °C	ORP mV	
Date: 5/3/06								
Time: 1540								
Method: Peristaltic	clear	5.78	.184	6.93	0.35	23.06		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890 Analysis Time: _____
Concentration: 2.3 mg/L
Notes:

Alkalinity: Analysis Time: _____
Equipment: CHEMetrics CHEMetrics (Range: 10-100 mg/L)
CHEMetrics: 70 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: _____
CHEMetrics: 60 mg/L
Notes:

Dissolved Oxygen:
Equipment: CHEMetrics Range ☒ 0 - 1.0 mg/L ☒ 1 - 12 mg/L Analysis Time: _____
CHEMetrics: 1.0 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C Analysis Time: _____
Concentration: 0.0 mg/L
Notes:

Sulfide:
Equipment : HACH DR890 Analysis Time: _____
Concentration: _____ mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	PG-1-of-2
WELL NO: NASP18-MW42I	SAMPLE ID: NASP18-MW42I-0406	DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 10.15	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 35.20 - 10.15 = 25.05 x 0.16 = 4.008 x 5 = 20.04G
_____Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0.0051 x 37' = 375 = 375.052
_____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0820/1530	PURGING ENDED AT: 1000/1700	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0830	1.0	1.0	100	11.80	7.53	24.76	0.109	0.29	591	LT Brn	None
0840	1.0	2.0	100	12.10	7.39	25.28	0.101	0.12	641	LT Brn	None
0850	1.0	3.0	100	12.08	7.51	26.37	0.104	0.08	599	LT Brn	None
0900	1.0	4.0	100	12.10	7.74	26.90	0.105	0.10	547	LT Brn	None
0910	1.0	5.0	100	12.10	8.77	27.07	0.110	0.14	489	LT Brn	None
0920	1.0	6.0	100	12.10	8.75	28.05	0.111	0.15	484	LT Brn	None
0930	1.0	7.0	100	12.10	8.73	28.10	0.112	0.16	478	LT Brn	None
0940	1.0	8.0	100	12.10	7.95	28.86	0.111	0.20	553	LT Brn	None
0950	1.0	9.0	100	12.10	7.91	28.47	0.110	0.15	546	LT BRN	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R McGuire	SAMPLING INITIATED AT: 1700	SAMPLING ENDED AT: 1720
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100 -	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:
ORP - 450.1
~~450~~ 5n - 476.2
- 510.5
- 508.3
- 494.5
- 519.1

1000 - purging stopped to clear airfield for Blue Angels practice

Collect NASP18-DUP01-0406

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL PG 2 of 2	
WELL NO: NASP18- MW42I	SAMPLE ID: NASP18-MW42I	DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

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

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

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1530	600	27.0	600	14.65	6.29	23.67	0.098	0.48	688	LT Brn	None
1630	600	57.0	600	14.65	6.28	23.72	0.098	0.26	699	LT Brn	None
1640	600	63.0	600	14.65	6.27	23.73	0.098	0.25	710	LT Brn	None
1650	600	69.0	600	14.65	6.26	27.75	0.099	0.21	742	LT Brn	None
1700	600	75.0	600	14.65	6.24	27.73	0.097	0.18	801	LT Brn	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250 DISS Metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW43D	SAMPLE ID: NASP18-MW43D-0406 / DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 50 feet to 60 feet	STATIC DEPTH TO WATER (feet): 10.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 59.45 - 10.5 = 49 x 0.16 = 7.84 = 39.2 _____Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0.0014 x 62 = 0.09 = 375.09 _____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.0 ~~53.55~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~53.55~~ 55.0	PURGING INITIATED AT: 1430	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1440	1.0	1.0	100	10.53	5.94	24.53	0.168	0.60	173.0	Cloudy	None
1445	0.5	1.5	100	10.53	5.94	24.51	0.168	0.42	82.0	clear	None
1450	0.5	2.0	100	10.53	5.93	24.49	0.166	0.39	29.2	clear	None
1500	0.5	2.5	100	10.53	5.93	24.47	0.165	0.36	6.21	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 55.0	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE HNO3 Diss Metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW44S	SAMPLE ID: NASP18-MW44S-0406 / DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 3.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 12.85 Liters

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 00014 x 15 = 0.021 + 375 = 375.02 = 3 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (Liters): 3.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1040	1.0	1.0	100	3.53	4.50	22.10	0.157	0.98	101	clear	None
1045	0.5	1.5	100	3.55	4.49	22.07	0.157	0.71	81.0	clear	None
1050	0.5	2.0	100	3.55	4.50	22.9	0.157	0.65	54.1	clear	None
1055	0.5	2.5	100	3.55	4.49	23.10	0.159	0.57	21.6	clear	None
1100	0.5	3.0	100	3.55	4.47	23.12	0.161	0.59	9.24	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 8.25	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL Pg 1 - of 2
WELL NO: NASP18- ~~MW45~~ MW45I	SAMPLE ID: NASP18-MW45I-0406 / DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 8.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
35.05 - 8.68 = 26.37 = 4.21 x 5 = 21.096
_____Liters 0.16

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1120	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters): 80

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	5.0	5.0	500	8.70	5.36	21.40	0.098	0.72	722	LtBrn	None
1140	5.0	10.0	500	8.70	5.21	21.37	0.091	0.51	666	LtBrn	None
1150	5.0	15.0	500	8.70	5.15	21.32	0.084	0.32	587	LtBrn	None
1200	5.0	20.0	500	8.70	5.16	21.41	0.084	0.30	620	LtBrn	Organic
1210	5.0	25.0	500	8.70	5.16	21.58	0.084	0.28	641	LtBrn	Organic
1220	5.0	30.0	500	8.70	5.16	21.41	0.084	0.27	602	LtBrn	Organic
1230	5.0	35.0	500	8.70	5.16	21.36	0.084	0.26	589	LtBrn	Organic
1240	5.0	40.0	500	8.70	5.17	21.45	0.084	0.25	618	LtBrn	Organic
1250	5.0	45.0	500	8.70	5.18	21.52	0.084	0.29	627	LtBrn	Organic

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	~~2~~ 3	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250 HNO3 Dissolved metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL PG-2 of 2
WELL NO: NASP18-MW45 I	SAMPLE ID: NASP18-MW45I-0406 / DATE: 4-25-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 8.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 35.05 _____Liters

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.1	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.1	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (Liters):

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1300	5.0	50.0	500	8.70	5.19	21.56	0.083	0.35	498	LtBrn	Organic
1310	5.0	55.0	500	8.70	5.19	21.51	0.083	0.32	558	LtBrn	Organic
1320	5.0	60.0	500	8.70	5.19	21.46	0.083	0.20	629	LtBrn	Organic
1330	5.0	65.0	500	8.70	5.19	21.49	0.083	0.18	592	LtBrn	Organic
1340	5.0	70.0	500	8.70	5.19	21.51	0.084	0.17	602	LtBrn	Organic
1350	5.0	75.0	500	8.70	5.19	21.54	0.084	0.15	611	LtBrn	Organic
1400	5.0	80.0	500	8.70	5.19	21.55	0.084	0.14	609	LtBrn	Organic

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet): 30.1	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250 HNO3 none Diss metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW46I	SAMPLE ID: ~~NASP4~~ (TU) NASP18-MW46I-0406 — DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 30.18 feet to 35.18 feet	STATIC DEPTH TO WATER (feet): 9.66	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.2 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.6	PURGING INITIATED AT: 0852	PURGING ENDED AT: 0922	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0852	–	–	200	9.66	–	–	–	–	–	BROWN	NONE
0857	1.0	1.0	200	9.72	6.98	23.23	133	9.18	201	BROWN	NONE
0902	2.0	1.0	200	9.76	7.06	23.16	132	8.93	193	BROWN	NONE
0907	3.0	1.0	200	9.76	7.11	23.09	130	8.84	181	BROWN	NONE
0912	4.0	1.0	200	9.76	7.13	23.15	129	8.63	179	BROWN	NONE
0917	5.0	1.0	200	9.76	7.15	23.24	130	8.48	176	BROWN	NONE
0922	6.0	1.0	200	9.76	7.20	23.21	129	8.46	171	BROWN	NONE
	SAMPLE TIME		0924								

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 0924	SAMPLING ENDED AT: 0945
PUMP OR TUBING DEPTH IN WELL (feet): 32.6	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
REMARKS:	1	PE	250 mL	HNO_3	NONE	<2	DISSOLVED FE, MN	APP

PUMPED 5 VOLUMES TO BRING D.O. AND TURBIDITY DOWN. SAMPLED WHILE D.O. WAS STILL HIGH AND STILL TURBID. ALL OTHER PARAMETERS STABLE.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW47I	SAMPLE ID: NASP18-MW47I-0406 / DATE: 4/27/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 30.22 feet to 35.22 feet	STATIC DEPTH TO WATER (feet): 6.59	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.2 Liters x 5 = 6.0 L

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.7	PURGING INITIATED AT: 0843	PURGING ENDED AT: 0903	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0843	-	-	300	6.59	-	-	—	—	-	DARK BROWN	NONE
0848	1.5	1.5	300	6.70	8.68	21.95	131	1.45	61.5	DARK BROWN	NONE
0853	1.5	3.0	300	6.70	8.94	22.02	130	1.32	61.4	DARK BROWN	NONE
0858	1.5	4.5	300	6.70	9.00	22.02	130	1.16	61.5	DARK BROWN	NONE
0903	1.5	6.0	300	6.70	8.98	22.04	127	1.09	61.5	DARK BROWN	NONE

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 32.7	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	~~3~~	~~CG~~	~~40 mL~~	~~HCl~~	~~NONE~~	~~<2~~	~~RSK SOP 147/175~~	~~RFPP~~
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250mL HNO_3 D.Sl. Fe, Mn

PURGED 5 VOLUMES TO BRING TURBIDITY DOWN. SAMPLED WHILE STILL TURBID, BUT ALL OTHER PARAMETERS STABLE

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL

WELL NO: NASP18- MW48I	SAMPLE ID: NASP18-MW48I-0406	DATE: 4/25/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 30.06 feet to 35.06 feet	STATIC DEPTH TO WATER (feet): 6.86	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.2 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1724	PURGING ENDED AT: 1749	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (mlpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1724	–	–	300	6.86	–	–	–	–	–	CLEAR	NONE
1729	1.5	1.5	300	6.98	6.70	22.50	95	6.40	17.3	CLEAR	NONE
1734	1.5	3.0	300	6.98	6.72	22.51	98	5.67	15.47	CLEAR	NONE
1739	1.5	4.5	300	6.98	7.01	22.51	101	3.26	11.33	CLEAR	NONE
1744	1.5	6.0	300	6.98	7.05	22.52	102	3.27	9.86	CLEAR	NONE
1749	1.5	7.5	300	6.98	7.07	22.51	102	3.24	8.64	CLEAR	NONE
	SAMPLE TIME			1751							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1751	SAMPLING ENDED AT: 1811
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
	1	PE	250 mL	HNO_3			Diss. Fe, Mn	

REMARKS:
D.O. > 20%, BUT STABLE AT SAMPLE TIME.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW49S	SAMPLE ID: NASP18-MW49S-0506
DATE: 5/2/06	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPAC
only fill out if applicable) 13.00 5.50
1.2 gal/ft = 4.6 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X FLOW CELL VOLUME
(only fill out if applicable)
Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~8.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~8.0'	PURGING INITIATED AT: 11	PURGING ENDED AT: 1132	TOTAL VOLUME PURGED (Liters): 13.8

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	(%	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1105	0	0	500	5.50	6.10	23.05	.064	0.	3.70	clear	none
1114	4.5	4.5	500	5.51	5.33	22.73	.060	0.49	1.58	"	"
1123	4.5	9.0	500	5.51	5.25	22.77	.066	0.50	0.88	"	"
1132	4.5	13.5	500	5.51	5.26	22.81	.067	0.50	0.67	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): ~8.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NAS Pensacola UST Site 18
Project No.: 1112G00140
Sampled By: JB
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: NASP18-MW495-0506
Sample Location: MW495
Duplicate: ☒
Blank: ☐

SAMPLING DATA:

Date: 5/2/06	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	
Time: 1135	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Method: Peristaltic	clear	5.26	.067	0.67	0.50	22.81		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:
Equipment: HACH DR890
Analysis Time: 1244
Concentration: 1.2 mg/L
Notes:

Alkalinity:
Analysis Time: 1250
Equipment: CHEMetrics
CHEMetrics (Range: 10-100 mg/L)
CHEMetrics: 70 mg/L
Notes:

Carbon Dioxide:
Equipment: HACH Digital Titrator CA-DT
CHEMetrics (Range: 10-100 mg/L)
Analysis Time: 1255
CHEMetrics: 90 mg/L
Notes:

Dissolved Oxygen:
Equipment:
CHEMetrics Range ☐ 0 - 1.0 mg/L ☒ 1 - 12 mg/L
Analysis Time: 1300
CHEMetrics: 10 mg/L

Hydrogen Sulfide (H_2S):
Equipment: HS-C
Analysis Time: 1305
Concentration: 2.0 mg/L
Notes:

Sulfide:
Equipment: HACH DR890
Analysis Time:
Concentration: mg/L

QA/QC Checklist:
All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW50I	SAMPLE ID: ~~MW50I~~ NASP18-MW50I-0506 / DATE: 5/2/06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 8.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 35.00 8.68 _____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) .0014 35.00 ft 1000mL 1.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~30.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~30.0'	PURGING INITIATED AT: 1505	PURGING ENDED AT: 1515	TOTAL VOLUME PURGED (Liters): 5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1505	0	0	500	8.68	6.94	23.20	.088	0.54	73.0	dark	none
1507	1	1	500	8.73	7.04	23.09	.088	0.29	74.1	"	"
1509	1	2	500	8.73	7.04	23.06	.089	0.27	79.5	"	"
1513	2	4	500	8.74	7.06	23.06	.090	0.25	81.3	"	"
1515	1	5	500	8.74	7.08	23.03	.091	0.24	82.4	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1550
PUMP OR TUBING DEPTH IN WELL (feet): ~30.0'	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name:	NAS Pensacola UST Site 18	Sample ID No.:	NASP18-MW50I-0506
Project No.:	1112G00140	Sample Location:	MW50I
Sampled By:	JB	Duplicate:	☐
Field Analyst:	JB	Blank:	☐
Field Form Checked as per QA/QC Checklist (initials):			

SAMPLING DATA:

Date: 5/2/06	Color	pH	S.C.	Turbidity	DO	Temp.	ORP	
Time: 1515	Visual	Standard	mS/cm	NTU	mg/l	°C	mV	
Method: Peristaltic	dark	7.08	23.03	82.4	0.24	23.03		

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Ferrous Iron:

Equipment: HACH DR890 Analysis Time: 1555

Concentration: 1.1 mg/L

Notes:

Alkalinity: Analysis Time: 1605

Equipment: CHEMetrics CHEMetrics (Range: 10-100 mg/L)

CHEMetrics: 40 mg/L

Notes:

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: 10-100 mg/L) Analysis Time: 1610

CHEMetrics: 60 mg/L

Notes:

Dissolved Oxygen:

Equipment: CHEMetrics Range ☒ 0 - 1.0 mg/L ☒ 1 - 12 mg/L Analysis Time: 1615

CHEMetrics: 1.0 mg/L

Hydrogen Sulfide (H_2S):

Equipment: HS-C Analysis Time: 1620

Concentration: 0.0 mg/L

Notes:

Sulfide:

Equipment : HACH DR890 Analysis Time: _____

Concentration: _____ mg/L

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐
Title block is initialized by person who performed the QA/QC Checklist: ☐

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- ~~[illegible]~~ MW51D	SAMPLE ID: NASP18-MW51-0506 — DATE: 5-02-06

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 50 feet to 60 feet	STATIC DEPTH TO WATER (feet): 9.80	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 2.0 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) _____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 1644	PURGING ENDED AT: 1719	TOTAL VOLUME PURGED (Liters): 13.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1654	~~2.5~~ 5.0	5.0	.500	9.90	6.32	23.00	82	0.76	38	cloudy clear	none
1659	2.5	7.5	.500	9.88	6.28	23.01	80	0.45	40	cloudy clear	none
~~1704~~	~~2.5~~	~~10.0~~	~~.300~~								
1704	~~2.5~~ 1.5	9.0	.300	9.85	6.20	23.03	79	0.45	49	cloudy clear	none
1709	1.5	10.5	.300	9.86	6.13	23.11	77	0.40	40	cloudy clear	none
1714	1.5	12.0	.300	9.87	6.15	23.11	78	0.38	35	cloudy clear	none
1719	1.5	13.5	.300	9.85	6.15	23.10	79	0.39	32.1	cloudy clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1720	SAMPLING ENDED AT: 1734
PUMP OR TUBING DEPTH IN WELL (feet): 55	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	~~3~~	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	3	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
~~Total Lead~~	2	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: add total + dissolved metals

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW525	SAMPLE ID: NASP18-MW525-0406 / DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 5.22	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
4.73 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1453	PURGING ENDED AT: 1508	TOTAL VOLUME PURGED (Liters): 7.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1458	2.5	2.5	.500	5.22	5.59	22.53	108	0.50	21	clear	none
1503	2.5	5.0	.500	5.22	5.18	22.30	123	0.44	10	"	"
1508	2.5	7.5	.500	5.22	5.14	22.35	125	0.43	7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST= 1515

SAMPLED BY (PRINT) / AFFILIATION: /Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1508	SAMPLING ENDED AT: 1519
PUMP OR TUBING DEPTH IN WELL (feet): 8	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL	
WELL NO: NASP18-53I	SAMPLE ID:	DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 7.01	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1330	TOTAL VOLUME PURGED (Liters): 12.25

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1250	2.0	2.0	400	7.24	6.22	22.87	170	0.33	45	clear/colorless	
1255	1.5	3.5	.300	7.29	6.14	22.94	169	0.18	55	"	"
1300	1.25	4.75	.250	7.29	6.12	23.04	167	0.22	55	"	"
1305	1.25	6.0	.250	7.29	6.15	23.07	166	0.18	48	"	"
1310	1.25	7.25	.250	7.29	6.17	23.11	165	0.19	50	"	"
1320	2.5	9.75	.250	7.29	6.14	23.07	164	0.14	41	"	"
1330	2.5	12.25	.250	7.29	6.24	23.13	164	0.14	45	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

STS 1340

SAMPLED BY (PRINT) / AFFILIATION: Curtis Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1349
PUMP OR TUBING DEPTH IN WELL (feet): 30	SAMPLE PUMP FLOW RATE (mL per minute): 250	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW 54 I	SAMPLE ID: NASPK-MW54I-0406 / DATE: 4-27-06

PURGING DATA

25-35 TD = 35.60

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 13.95	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1612	PURGING ENDED AT: 1633	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1618	2.5	2.5	.500	14.21	6.39	23.28	73	.23	424	cola	none
1623	2.5	5.0	.500	14.28	6.40	23.17	73	.11	455	"	"
1628	2.5	7.5	.500	14.26	6.43	23.09	73	.11	473	"	"
1633	2.5	10.0	.500	14.27	6.47	23.09	73	.12	466	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Cindy Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1633	SAMPLING ENDED AT: 1646
PUMP OR TUBING DEPTH IN WELL (feet): 30	SAMPLE PUMP FLOW RATE (mL per minute): 500	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW~~[illegible]~~ 550	SAMPLE ID: / DATE:

PURGING DATA

TD: ~~[illegible]~~ 60.60

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 50.6 feet to 60.6 feet	STATIC DEPTH TO WATER (feet): 13.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
_____ Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
2.0 Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 1700	PURGING ENDED AT: 1715	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1705	2.0	2.0	.400	13.57	5.17	23.69	44	0.31	62	clear/tod	none
1710	2.0	4.0	.400	13.58	5.15	23.66	44	0.22	28	"	"
1715	2.0	6.0	.400	13.58	5.14	23.63	45	0.19	18	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = ~~[illegible]~~ 1725

SAMPLED BY (PRINT) / AFFILIATION: Curtis Dan /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1725	SAMPLING ENDED AT: 1735
PUMP OR TUBING DEPTH IN WELL (feet): 55	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW56S	SAMPLE ID: NASP18 - MW56S - 0406 / DATE: 4/27/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3.0 feet to 13.0 feet	STATIC DEPTH TO WATER (feet): 3.79	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
13.0 - 3.79
5.6 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	PURGING INITIATED AT: 1001	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (Liters): 10.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1001	–	–	400	3.79	–	–	–	–	–	CLEAR	NONE
1011	4.0	4.0	400	3.81	5.34	22.05	71	6.48	20.2	CLEAR	NONE
1016	2.0	6.0	400	3.82	5.23	22.11	75	2.02	19.9	CLEAR	NONE
1021	2.0	8.0	400	3.82	5.13	22.15	75	1.78	18.3	CLEAR	NONE
1026	2.0	10.0	400	3.82	5.09	22.19	75	1.54	17.1	CLEAR	NONE
	SAMPLE TIME			1028							

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1028	SAMPLING ENDED AT: 1048
PUMP OR TUBING DEPTH IN WELL (feet): 8.0	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: 1 PE 250 mL HNO_3 Diss. Fe, Mn

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- MW57I	SAMPLE ID: NASP18-MW57I-0406 / DATE: 4/27/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 30.0 feet to 35.0 feet	STATIC DEPTH TO WATER (feet): 7.28	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
1.2 Liters x 5 = 6.0 L

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1102	PURGING ENDED AT: 1122	TOTAL VOLUME PURGED (Liters): 6.0

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1102	–	–	300	7.28	–	–	–	–	–	BROWN	NONE
1107	1.5	1.5	300	7.32	6.14	23.50	97	8.02	368	BROWN	NONE
1112	1.5	3.0	300	7.32	6.49	23.30	98	3.20	358	BROWN	NONE
1117	1.5	4.5	300	7.32	6.59	23.29	100	1.93	356	BROWN	NONE
1122	1.5	6.0	300	7.32	6.56	23.28	100	1.62	355	BROWN	NONE
	SAMPLE TIME 1125										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TERRY COTTENOIR /Tetra Tech	SAMPLER(S) SIGNATURES: Terry Cottenoir	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	SAMPLE PUMP FLOW RATE (mL per minute): 200	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
REMARKS:	1	PE	250 mL	HNO_3			DISS. METALS	

PURGED 5 VOLUMES TO BRING TURBITIY DOWN. SAMPLE WHILE STILL TURBID. ALL PARAMETERS, INCLUDING TURBIDITY, WERE STABLE AT SAMPLE TIME.

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- 58I	SAMPLE ID: NASP18-MW58I-0506 / DATE: 5/01/06

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 10.66	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
2.0 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1657	PURGING ENDED AT: 1734	TOTAL VOLUME PURGED (Liters): 14.00

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1703	2.5	2.5	.500	11.13	7.14	22.98	134	1.59	28.4	cloudy	none
1708	2.5	5.0	.500	11.15	6.99	23.02	132	1.25	23.5	clear	none
1713	2.5	7.5	.500	11.15	6.85	23.04	134	0.78	26	clear	none
1718	2.5	10.0	.500	11.16	6.76	23.11	139	0.61	42	cloudy	none
1723	1.5	11.5	.300	10.97	6.71	23.32	140	0.53	53	cloudy	none
1728	1.25	12.75	.250	10.92	6.70	23.47	140	0.48	57.9	cloudy	none
1733	1.25	14.00	.250	10.92	6.73	23.45	140	0.48	57	cloudy	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

ST = 1740

SAMPLED BY (PRINT) / AFFILIATION: Cristo Odom /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1733	SAMPLING ENDED AT: 1745
PUMP OR TUBING DEPTH IN WELL (feet): 30	SAMPLE PUMP FLOW RATE (mL per minute): 400	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TOC	2	AG	40 mL	H_2SO_4	NONE	<2	415.1	APP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Alk + Anions	1	PE	1 L	NONE	NONE	--	300 + 310.1	APP
Fe+Mn (unfilt	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP
Fe+Mn filter	1	PE	500 mL	NONE	NONE	--	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18- 595	SAMPLE ID: NASP18-MW595-05~~06~~ / DATE: 5/1/08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 3 feet to 13 feet	STATIC DEPTH TO WATER (feet): 4.94	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 13.08 – 4.94 × .16
4.2 Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
_____ Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~8.00'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~8.00'	PURGING INITIATED AT: 1654	PURGING ENDED AT: 1743	TOTAL VOLUME PURGED (Liters): 14.7

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1655	0	0	.3	4.94	6.00	23.29	.080	0.94	22.4	clear	none
1715	6	6	.3	4.94	5.75	22.85	.052	0.29	16.76	"	"
1727	3.6	9.6	.3	4.94	5.78	22.69	.050	0.20	16.13	"	"
1743	5.1	14.7	.3	4.94	5.80	22.52	.050	0.14	15.62	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jason Bourgeois /Tetra Tech	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 1745	SAMPLING ENDED AT: 1810
PUMP OR TUBING DEPTH IN WELL (feet): ~8.00'	SAMPLE PUMP FLOW RATE (mL per minute): 300	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
MEE	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	$HN0_3$	NONE	<2	6010B	APP

REMARKS:

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

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

Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE NAME: UST Site 18	SITE LOCATION: NAS Pensacola, Pensacola, FL
WELL NO: NASP18-MWunknown01	SAMPLE ID: NASP18-MWunknown01-0406 / DATE: 4-27-06

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.45	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 12.70 _____Liters

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) .0014 15 = 0.021 + 375 = 375.021 _____Liters

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1615	PURGING ENDED AT:	TOTAL VOLUME PURGED (Liters): 2.5

TIME	VOLUME PURGED (Liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (lpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1625	1.0	1.0	100	6.51	4.86	22.58	0.077	0.67	5.03	clear	None
1630	0.5	1.5	100	6.51	4.86	22.06	0.075	0.51	3.36	clear	None
1635	0.5	2.0	100	6.51	4.87	22.04	0.074	0.48	0.92	clear	None
1640	0.5	2.5	100	6.51	4.88	22.03	0.073	0.45	1.01	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire /Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1640	SAMPLING ENDED AT: 1700
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Yes	FIELD-FILTERED: Yes (Fe + Mn) FILTER SIZE: 1 µm Filtration Equipment Type: Inline Barrel filter	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VOCs	3	CG	40 mL	HCl	NONE	<2	8260B	RFPP
~~MEE~~	3	CG	40 mL	HCl	NONE	<2	RSK SOP 147/175	RFPP
TRPH	2	AG	1L	H_2SO_4	NONE	<2	FL-PRO	VT
PAHs	2	AG	1L	NONE	NONE	--	8270	VT
EDB	2	PE	250 mL	$Na_2S_2O_3$	NONE		504.1	APP
Total Lead	1	PE	500 mL	HNO_3	NONE	<2	6010B	APP

REMARKS: Diss Metals collected.

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

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

APPENDIX C

MOBILE LABORATORY ANALYTICAL REPORTS

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

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February 22, 2006

Chuck Metz
TtNUS
8640 Philips Highway, Suite 16
Jacksonville, FL 32256

RE: NAS Pensacola Site 18, Pensacola, FL - Final Data Report
KB Labs Project # 06-13

Dear Mr. Metz:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from February 7 to 16, 2006. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form. This information will also be sent electronically.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From February 7 to 16, 2006, a total of 220 samples (220 water) were analyzed for TtNUS at NAS Pensacola Site 18, Pensacola, FL. The samples were analyzed for mtbe,benzene, toluene, ethylbenzene, xylenes, naphthalene, and 1&2-methylnaphthalenes.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

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Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Because of a reoccurring m-&p-xylene background result in the daily method blank, the reporting limit for this analyte was raised from 1.0 ug/L to 2.0 ug/L.

3. The benzene result for sample NASP18-GW-DPT-K15-20 was changed from 430 ug/L to 43 ug/L.

4. The MtBE reporting limit for sample NASP18-GW-GS18-02102006 was updated to <10 ug/L to reflect the proper dilution level.

5. Several analytes were updated for sample NASP18-GW-DU01-02102006 to report the neat analysis.

6. Several analytes were updated for sample NASP18-GW-GS01-02102006 to report the neat analysis.

7. M-&p-xylene result for sample NASP18-GW-DPT/N15-20 was updated from 15.6 ug/L to 11.6 ug/L.

8. The MtBE and benzene reporting limits for samples NASP18-GW-DPT/I17-10, NASP18-GW-DPTI39-20, and NASP18-GW-DPTI39-10 were updated to reflect the proper dilution level.

9. M-&p-xylene result for sample NASP18-GW-FCEB06-02152006 was updated from 4.8 ug/L to <2.0 ug/L.

10. Because of on-site generator issues, a few samples were not re-diluted to within upper calibration range. These samples are indicated on the Final Report with FDEP Data Qualifier “L”.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	02/06/06	112	109	99	93	Pass	Pass	Pass	Pass
VSTD 1	02/06/06	105	99	99	100	Pass	Pass	Pass	Pass
VSTD 5	02/06/06	103	101	102	99	Pass	Pass	Pass	Pass
VSTD 10	02/06/06	96	99	99	100	Pass	Pass	Pass	Pass
VSTD 20	02/06/06	98	99	100	101	Pass	Pass	Pass	Pass
RSTD 20	02/06/06	101	101	100	100	Pass	Pass	Pass	Pass
VSTD 50	02/06/06	99	102	100	99	Pass	Pass	Pass	Pass
VSTD 100	02/06/06	99	101	101	101	Pass	Pass	Pass	Pass
BLANK	02/06/06	97	92	101	99	Pass	Pass	Pass	Pass
BLANK	02/06/06	99	93	99	98	Pass	Pass	Pass	Pass
VSTD 20	02/07/06	101	101	100	100	Pass	Pass	Pass	Pass
RSTD 20	02/07/06	101	101	100	100	Pass	Pass	Pass	Pass
BLANK	02/07/06	100	95	99	97	Pass	Pass	Pass	Pass
NASP18-GW-GW25020706	02/07/06	97	95	101	98	Pass	Pass	Pass	Pass
NASP-GW-DPT/A11-55	02/07/06	97	93	102	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A11-40	02/07/06	97	98	104	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A11-30	02/07/06	106	95	105	113	Pass	Pass	Pass	Pass
NASP18-GW-GS28-020706	02/07/06	97	96	100	99	Pass	Pass	Pass	Pass
NASP18-GW-GI29-020706	02/07/06	98	99	101	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A11-20	02/07/06	96	96	111	129	Pass	Pass	Pass	Pass
NASP18-GW-GI02-020706	02/07/06	98	94	99	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A11-10	02/07/06	97	94	114	148	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/A12-55	02/07/06	101	96	105	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A12-40	02/07/06	99	96	102	109	Pass	Pass	Pass	Pass
NASP18-GW-GS02-020706	02/07/06	99	96	101	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A12-30	02/07/06	102	98	102	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A12-20	02/07/06	104	98	104	112	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A12-10	02/07/06	100	95	106	112	Pass	Pass	Pass	Pass
NASP18-GW-GS07-020706	02/07/06	98	93	99	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A13-55	02/07/06	100	94	102	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A13-40	02/07/06	105	98	101	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A13-30	02/07/06	134	125	103	107	Pass	Pass	Pass	Pass
BLANK	02/07/06	102	91	103	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A13-20	02/07/06	101	94	105	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A13-10	02/07/06	183	168	108	122	> UCL	> UCL	Pass	Pass
NASP18GWGI29-020706MS	02/07/06	98	97	99	99	Pass	Pass	Pass	Pass
NASP18GWGI29-020706MSD	02/07/06	98	96	99	102	Pass	Pass	Pass	Pass
VSTD 20	02/07/06	98	96	100	100	Pass	Pass	Pass	Pass
VSTD 20	02/08/06	97	99	101	99	Pass	Pass	Pass	Pass
RSTD 20	02/08/06	103	100	98	99	Pass	Pass	Pass	Pass
BLANK	02/08/06	97	94	100	99	Pass	Pass	Pass	Pass
NASP18-GW-GS26-020706	02/08/06	97	92	97	99	Pass	Pass	Pass	Pass
NASP18-GW-GI27-020706	02/08/06	97	90	97	100	Pass	Pass	Pass	Pass
NASP18-GW-GS???	02/08/06	102	94	97	99	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

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Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/K15-55	02/08/06	103	94	103	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K15-40	02/08/06	116	102	102	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K15-30	02/08/06	98	92	102	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K15-20	02/08/06	100	96	100	110	Pass	Pass	Pass	Pass
NASP18-GW-GS22-020806	02/08/06	99	93	101	99	Pass	Pass	Pass	Pass
NASP18-GW24-020806	02/08/06	99	93	98	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-55	02/08/06	98	93	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-40	02/08/06	97	94	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-30	02/08/06	96	90	98	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-20	02/08/06	102	95	106	125	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-10	02/08/06	102	94	99	98	Pass	Pass	Pass	Pass
NASP18-GW-GS30-020806	02/08/06	100	94	99	102	Pass	Pass	Pass	Pass
NASP18-GW-GI31-020806	02/08/06	98	92	100	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K15-10	02/08/06	102	91	102	115	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K11-55	02/08/06	111	101	104	116	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K11-40	02/08/06	295	220	113	141	> UCL	> UCL	Pass	> UCL
NASP18-GW-DPT/K11-30	02/08/06	171	148	108	125	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/K11-20	02/08/06	245	224	117	142	> UCL	> UCL	> UCL	> UCL
NASP18-GW-DPT/K11-10	02/08/06	174	148	116	136	> UCL	> UCL	Pass	> UCL
NASP18-GW-DPT/K13-20	02/08/06	104	94	109	130	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-10MSD	02/08/06	99	90	99	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K13-10MS	02/08/06	95	95	101	101	Pass	Pass	Pass	Pass
NASP18GWGM24020806MS	02/08/06	99	92	100	102	Pass	Pass	Pass	Pass
NASP18GWGM2020806MSD	02/08/06	99	98	99	100	Pass	Pass	Pass	Pass
VSTD20	02/08/06	101	93	101	100	Pass	Pass	Pass	Pass
VSTD 20	02/09/06	98	96	99	100	Pass	Pass	Pass	Pass
RSTD 20	02/09/06	99	95	97	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K11-10	02/09/06	103	91	97	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B9-55	02/09/06	99	92	99	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B9-40	02/09/06	101	92	99	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B9-30	02/09/06	100	88	101	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B9-20	02/09/06	97	93	101	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B9-10	02/09/06	100	95	103	117	Pass	Pass	Pass	Pass
NASP18-GW-GI06-020906	02/09/06	97	91	99	100	Pass	Pass	Pass	Pass
NASP18-GW-GS06-020906	02/09/06	100	88	98	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C15-55	02/09/06	99	94	100	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C15-40	02/09/06	97	92	99	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C15-30	02/09/06	97	93	101	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C15-20	02/09/06	113	103	103	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C15-10	02/09/06	102	91	100	98	Pass	Pass	Pass	Pass
NASP18-GW-GS09-020906	02/09/06	101	92	98	102	Pass	Pass	Pass	Pass
NASP18-GW-GS21-020906	02/09/06	100	95	99	99	Pass	Pass	Pass	Pass
NASP18-GW-GI05-020906	02/09/06	97	87	96	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A6-55	02/09/06	100	92	101	110	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

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Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/A6-40	02/09/06	99	95	100	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A6-30	02/09/06	100	86	99	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A6-20	02/09/06	100	88	100	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A6-10	02/09/06	98	92	103	116	Pass	Pass	Pass	Pass
BLANK	02/09/06	100	90	100	101	Pass	Pass	Pass	Pass
NASP18-GW-GS05-020906	02/09/06	100	98	100	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT01-55	02/09/06	99	94	101	105	Pass	Pass	Pass	Pass
NASP18-GW-GS09-020906MSD	02/09/06	100	97	100	99	Pass	Pass	Pass	Pass
NASP18-GW-GS09-020906MS	02/09/06	97	94	99	104	Pass	Pass	Pass	Pass
VSTD 20	02/09/06	98	92	100	102	Pass	Pass	Pass	Pass
VSTD 20	02/09/06	105	97	99	101	Pass	Pass	Pass	Pass
RSTD 20	02/09/06	102	95	98	100	Pass	Pass	Pass	Pass
VSTD 20	02/10/06	100	96	98	99	Pass	Pass	Pass	Pass
RSTD 20	02/10/06	98	95	98	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K17-20	02/10/06	95	91	105	118	Pass	Pass	Pass	Pass
NASP18-GW-DPT/101-40	02/10/06	99	90	98	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/101-30	02/10/06	98	91	98	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/101-20	02/10/06	98	88	100	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/101-10	02/10/06	100	86	98	102	Pass	Pass	Pass	Pass
BLANK	02/10/06	94	89	97	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J9-55	02/10/06	97	92	98	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J9-40	02/10/06	97	92	100	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J9-30	02/10/06	96	91	100	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J9-20	02/10/06	98	92	99	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J9-10	02/10/06	102	99	96	103	Pass	Pass	Pass	Pass
NASP18-GW-GS12-021006	02/10/06	97	88	102	104	Pass	Pass	Pass	Pass
NASP18-GW-GS11-021006	02/10/06	98	90	96	99	Pass	Pass	Pass	Pass
NASP18-GW-GS13-020106	02/10/06	98	93	99	101	Pass	Pass	Pass	Pass
NASP18-GW-GS10-021006	02/10/06	102	91	99	104	Pass	Pass	Pass	Pass
NASP18-FCEB01-021006	02/10/06	96	94	98	102	Pass	Pass	Pass	Pass
NASP18-GW-GS18-021006	02/10/06	99	92	97	101	Pass	Pass	Pass	Pass
NASP18-GW-GS17-021006	02/10/06	100	90	99	106	Pass	Pass	Pass	Pass
NASP18-GW-GS19-0211006	02/10/06	96	94	101	102	Pass	Pass	Pass	Pass
BLANK	02/11/06	92	94	98	99	Pass	Pass	Pass	Pass
RSTD 20	02/11/06	96	99	103	106	Pass	Pass	Pass	Pass
VSTD 20	02/11/06	99	98	102	105	Pass	Pass	Pass	Pass
BLANK	02/11/06	94	93	99	107	Pass	Pass	Pass	Pass
NASP18-GW-DU01-021006	02/11/06	100	114	101	109	Pass	Pass	Pass	Pass
NASP18-GW-DU01-021006 1:2	02/11/06	100	103	103	110	Pass	Pass	Pass	Pass
NASP18-GW-GS01-021006	02/11/06	98	105	102	106	Pass	Pass	Pass	Pass
NASP18-GW-GS01-021006 1:2	02/11/06	102	100	102	105	Pass	Pass	Pass	Pass
NASP18-GW-GI01-021006	02/11/06	104	89	100	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N15-55021106	02/11/06	106	86	101	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N15-40021106	02/11/06	105	94	100	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
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Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
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Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPTN15-30021106	02/11/06	100	91	102	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N15-20021106	02/11/06	114	95	114	143	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/N15-10021106	02/11/06	104	96	103	108	Pass	Pass	Pass	Pass
BLANK	02/11/06	100	90	103	106	Pass	Pass	Pass	Pass
NASP18-GWDPT/K17.5-55021106	02/11/06	98	87	100	107	Pass	Pass	Pass	Pass
NASP18-GWDPT/K17.5-40021106	02/11/06	98	94	106	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K17.5-30021106	02/11/06	98	97	106	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K17.5-20021106	02/11/06	93	99	115	140	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/K17.5-10021106	02/11/06	94	96	104	107	Pass	Pass	Pass	Pass
NASP18-GW-GS04-021106	02/11/06	99	94	105	114	Pass	Pass	Pass	Pass
NASP18-GW-GI04-021106	02/11/06	97	94	102	106	Pass	Pass	Pass	Pass
NASP18-GW-GS08-021106	02/11/06	95	95	104	106	Pass	Pass	Pass	Pass
NASP18-GW-GI03-021106	02/11/06	102	88	100	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I17-55-021106	02/11/06	100	92	104	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I17-40-021106	02/11/06	100	90	102	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I17-30-021106	02/11/06	102	92	102	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N15-40-021106MS	02/11/06	105	102	103	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N15-40-021106MSD	02/11/06	98	93	108	105	Pass	Pass	Pass	Pass
BLANK	02/11/06	102	98	102	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I17-20-021106	02/11/06	97	96	105	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I17-10-021106	02/11/06	100	94	104	108	Pass	Pass	Pass	Pass
NASP18-FCEB02-021106	02/11/06	94	95	103	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I5-55-021106	02/11/06	98	96	105	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I5-40-021106	02/11/06	98	95	102	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I5-30-021106	02/11/06	100	94	102	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I5-20-021106	02/11/06	98	93	104	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I5-10-021106	02/11/06	102	92	105	109	Pass	Pass	Pass	Pass
NASP18-GW-GS18-021106 1:2	02/11/06	101	91	114	106	Pass	Pass	Pass	Pass
NASP18-GW-DU01-021106 1:10	02/11/06	98	91	101	99	Pass	Pass	Pass	Pass
NASP18-GW-GS01-021106 1:10	02/11/06	101	92	102	100	Pass	Pass	Pass	Pass
VSTD 20	02/11/06	102	94	101	101	Pass	Pass	Pass	Pass
VSTD 10	02/11/06	100	94	99	104	Pass	Pass	Pass	Pass
BLANK	02/12/06	98	94	102	102	Pass	Pass	Pass	Pass
VSTD 20	02/12/06	96	90	102	104	Pass	Pass	Pass	Pass
RSTD 20	02/12/06	92	102	106	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-55	02/12/06	224	198	123	153	> UCL	> UCL	> UCL	> UCL
NASP18-GW-DPT/C5-40	02/12/06	99	97	111	121	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-30	02/12/06	98	109	104	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-20	02/12/06	96	100	110	113	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-10	02/12/06	102	91	132	158	Pass	Pass	> UCL	> UCL
NASP18-GW-DPT/C5-40MS	02/12/06	92	99	107	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-40MSD	02/12/06	96	98	106	112	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C19-55	02/12/06	100	96	103	123	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C19-40	02/12/06	102	100	107	111	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/C19-30	02/12/06	126	115	107	121	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C19-20	02/12/06	105	91	103	119	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C19-10	02/12/06	104	103	108	128	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C19-10 1:5	02/12/06	105	96	100	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/N19-30	02/12/06	103	90	104	112	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K21-30	02/12/06	103	93	100	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-10 REPEAT	02/12/06	118	4	122	157	Pass	< LCL	> UCL	> UCL
NASP18-GW-DPT/C19-10 1:10	02/12/06	103	87	100	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F19-55 1:10	02/12/06	109	99	105	161	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/F19-40 1:5	02/12/06	94	98	108	133	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F19-30 1:5	02/12/06	97	97	103	119	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F19-20 1:5	02/12/06	103	94	104	126	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F19-10 1:20	02/12/06	102	NA	105	123	Pass	NA	Pass	Pass
NASP18-FCEB03-021206	02/12/06	104	NA	99	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/F21-55	02/12/06	150	NA	103	114	> UCL	NA	Pass	Pass
NASP18-GW-DPT/F21-40	02/12/06	142	NA	101	113	Pass	NA	Pass	Pass
NASP18-GW-DPT/F21-30	02/12/06	112	NA	101	106	Pass	NA	Pass	Pass
NASP18-GW-DPT/F21-20	02/12/06	102	NA	101	108	Pass	NA	Pass	Pass
NASP18-GW-DPT/F21-10	02/12/06	107	NA	102	114	Pass	NA	Pass	Pass
NASP18-GW-DPT/C19-20 MS	02/12/06	103	NA	99	106	Pass	NA	Pass	Pass
NASP18-GW-DPT/C19-20MSD	02/12/06	106	NA	102	110	Pass	NA	Pass	Pass
VSTD 20	02/12/06	104	NA	97	104	Pass	NA	Pass	Pass
BLANK	02/13/06	101	NA	97	92	Pass	NA	Pass	Pass
VSTD 1	02/13/06	102	NA	99	99	Pass	NA	Pass	Pass
VSTD 5	02/13/06	103	NA	100	100	Pass	NA	Pass	Pass
VSTD 10	02/13/06	95	NA	100	102	Pass	NA	Pass	Pass
VSTD 20	02/13/06	99	NA	99	99	Pass	NA	Pass	Pass
VSTD 50	02/13/06	99	NA	99	99	Pass	NA	Pass	Pass
VSTD 100	02/13/06	102	NA	102	101	Pass	NA	Pass	Pass
RSTD 20	02/13/06	101	NA	103	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/G40-55 1:2	02/13/06	98	NA	106	122	Pass	NA	Pass	Pass
NASP18-GW-DPT/G40-40 1:2	02/13/06	105	NA	106	117	Pass	NA	Pass	Pass
NASP18-GW-DPT/G40-30 1:2	02/13/06	105	NA	104	120	Pass	NA	Pass	Pass
NASP18-GW-DPT6/G40-20 1:2	02/13/06	103	NA	102	120	Pass	NA	Pass	Pass
NASP18-GW-DPT/G40-10 1:5	02/13/06	109	NA	103	120	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-55	02/13/06	109	NA	101	124	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-40	02/13/06	373	NA	106	127	> UCL	NA	Pass	Pass
NASP18-GW-DPT/I39-30	02/13/06	127	NA	97	107	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-20	02/13/06	111	NA	103	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-20 1:2	02/13/06	116	NA	98	108	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-10	02/13/06	118	NA	104	106	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-10 1:2	02/13/06	105	NA	102	106	Pass	NA	Pass	Pass
NASP18-GW-DPT/F19-55 1:5	02/13/06	104	NA	103	135	Pass	NA	Pass	> UCL
NASP18-GW-DPT/I37-55	02/13/06	190	NA	99	123	> UCL	NA	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/I37-40	02/13/06	105	NA	101	114	Pass	NA	Pass	Pass
NASP18-GW-DPT/I37-30	02/13/06	119	NA	100	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/I37-20	02/13/06	106	NA	99	99	Pass	NA	Pass	Pass
NASP18-GW-DPT/I37-10	02/13/06	106	NA	97	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/G35-55	02/13/06	115	NA	102	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/G35-40	02/13/06	180	NA	95	101	> UCL	NA	Pass	Pass
NASP18-GW-DPT/G35-30	02/13/06	114	NA	95	93	Pass	NA	Pass	Pass
NASP18-GW-DPT/G35-20	02/13/06	120	NA	96	107	Pass	NA	Pass	Pass
NASP18-GW-DPT/G35-10	02/13/06	123	NA	95	99	Pass	NA	Pass	Pass
NASP18-GW-DU02-021306	02/13/06	122	NA	99	106	Pass	NA	Pass	Pass
NASP18-GW-FCEB04-021306	02/13/06	112	NA	94	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-30MS	02/13/06	112	NA	94	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/I39-30MSD	02/13/06	112	NA	93	97	Pass	NA	Pass	Pass
VSTD 20	02/13/06	110	NA	93	96	Pass	NA	Pass	Pass
VSTD 10	02/13/06	115	NA	95	95	Pass	NA	Pass	Pass
BLANK	02/14/06	101	NA	96	94	Pass	NA	Pass	Pass
VSTD 20	02/14/06	112	NA	94	100	Pass	NA	Pass	Pass
RSTD 20	02/14/06	109	NA	94	91	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-55	02/14/06	107	NA	103	103	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-40	02/14/06	133	NA	105	114	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-30	02/14/06	116	NA	102	112	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-20	02/14/06	111	NA	105	116	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-10	02/14/06	113	NA	102	122	Pass	NA	Pass	Pass
NASP18-GW-FCEB05-021406	02/14/06	112	NA	94	98	Pass	NA	Pass	Pass
NASP18-GW-DPT/G27-55	02/14/06	216	NA	101	117	> UCL	NA	Pass	Pass
NASP18-GW-DPT/G27-40	02/14/06	116	NA	95	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-55 MS	02/14/06	108	NA	98	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/G24-55 MSD	02/14/06	104	NA	97	106	Pass	NA	Pass	Pass
BLANK	02/14/06	107	NA	98	92	Pass	NA	Pass	Pass
NASP18-GW-DPT/G27-30	02/14/06	105	NA	108	122	Pass	NA	Pass	Pass
NASP18-GW-DPT/G27-20	02/14/06	106	NA	99	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/G27-10	02/14/06	105	NA	99	102	Pass	NA	Pass	Pass
NASP18-GW-DPT/G40-10 1:10	02/14/06	105	NA	100	102	Pass	NA	Pass	Pass
NASP18-GW-DPT/G30-55	02/14/06	124	NA	94	105	Pass	NA	Pass	Pass
NASP18-GW-DPT/G30-40	02/14/06	113	NA	103	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/G30-30	02/14/06	115	NA	102	115	Pass	NA	Pass	Pass
NASP18-GW-DPT/G30-20	02/14/06	103	NA	101	110	Pass	NA	Pass	Pass
NASP18-GW-DPT/G30-10	02/14/06	114	NA	98	99	Pass	NA	Pass	Pass
NASP18-GW-DPT/E37-55 1:10	02/14/06	112	NA	100	111	Pass	NA	Pass	Pass
NASP18-GW-DPT/E37-40 1:10	02/14/06	118	NA	98	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/E37-30 1:10	02/14/06	113	NA	95	108	Pass	NA	Pass	Pass
NASP18-GW-DPT/E37-20 1:10	02/14/06	113	NA	98	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/E37-10 1:10	02/14/06	113	NA	97	103	Pass	NA	Pass	Pass
VSTD 10	02/14/06	118	NA	92	97	Pass	NA	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	02/14/06	120	NA	92	97	Pass	NA	Pass	Pass
BLANK	02/14/06	118	NA	92	98	Pass	NA	Pass	Pass
BLANK	02/15/06	110	NA	95	96	Pass	NA	Pass	Pass
VSTD 20	02/15/06	112	NA	96	98	Pass	NA	Pass	Pass
RSTD 20	02/15/06	110	NA	97	98	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-55	02/15/06	110	NA	95	105	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-40	02/15/06	111	NA	96	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-30	02/15/06	113	NA	97	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-20	02/15/06	112	NA	94	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-10	02/15/06	120	NA	95	106	Pass	NA	Pass	Pass
NASP18-GW-FCEB06-021506	02/15/06	112	NA	96	94	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-55 1:20	02/15/06	116	NA	95	117	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-40 1:20	02/15/06	124	NA	96	149	Pass	NA	Pass	> UCL
NASP18-GW-DPT/E37-40 1:20	02/15/06	122	NA	94	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34-40MS	02/15/06	111	NA	95	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/E34MSD	02/15/06	109	NA	93	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-30	02/15/06	120	NA	98	111	Pass	NA	Pass	Pass
NASP18-GW-FCEB07-021506	02/15/06	112	NA	97	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-20	02/15/06	116	NA	96	104	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-10 1:2	02/15/06	102	NA	97	105	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-55	02/15/06	105	NA	97	102	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-40	02/15/06	110	NA	93	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-30	02/15/06	107	NA	96	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-20	02/15/06	118	NA	102	118	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-10	02/15/06	114	NA	101	114	Pass	NA	Pass	Pass
NASP18-GW-DPT/G44-55	02/15/06	833	NA	105	128	> UCL	NA	Pass	Pass
NASP18-GW-DPT/G44-40	02/15/06	173	NA	101	119	> UCL	NA	Pass	Pass
NASP18-GW-DPT/G44-30	02/15/06	113	NA	95	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/G44-20	02/15/06	116	NA	92	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/G44-10	02/15/06	120	NA	93	104	Pass	NA	Pass	Pass
VSTD 10	02/15/06	120	NA	93	99	Pass	NA	Pass	Pass
VSTD 20	02/15/06	119	NA	89	99	Pass	NA	Pass	Pass
BLANK	02/15/06	120	NA	92	94	Pass	NA	Pass	Pass
BLANK	02/16/06	105	NA	93	97	Pass	NA	Pass	Pass
VSTD 20	02/16/06	112	NA	93	101	Pass	NA	Pass	Pass
RSTD 20	02/16/06	107	NA	94	99	Pass	NA	Pass	Pass
BLANK	02/16/06	104	NA	96	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-55	02/16/06	1060	NA	101	148	> UCL	NA	Pass	> UCL
NASP18-GW-DPT/K43-40	02/16/06	114	NA	100	119	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-30	02/16/06	110	NA	92	93	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-20	02/16/06	107	NA	95	98	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-10	02/16/06	121	NA	97	99	Pass	NA	Pass	Pass
NASP18-GW-DPT/C43-55	02/16/06	438	NA	102	121	> UCL	NA	Pass	Pass
NASP18-GW-DPT/C43-40	02/16/06	117	NA	96	96	Pass	NA	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-13
On-site Dates: 02/07/06-02/16/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/C43-30	02/16/06	107	NA	96	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/C43-20	02/16/06	110	NA	95	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/C43-10	02/16/06	108	NA	95	95	Pass	NA	Pass	Pass
NASP18-GW-FCEB08-021606	02/16/06	116	NA	88	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/A37-55	02/16/06	146	NA	97	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/A37-40	02/16/06	206	NA	93	98	> UCL	NA	Pass	Pass
NASP18-GW-DPT/A37-30	02/16/06	111	NA	94	95	Pass	NA	Pass	Pass
NASP18-GW-DPT/A37-20	02/16/06	110	NA	95	93	Pass	NA	Pass	Pass
NASP18-GW-DPT/A37-10	02/16/06	104	NA	93	94	Pass	NA	Pass	Pass
NASP18-GW-DPT/C24-55	02/16/06	994	NA	99	136	> UCL	NA	Pass	> UCL
NASP18-GW-DPT/C24-40	02/16/06	131	NA	94	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/C24-30	02/16/06	137	NA	92	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/C24-20	02/16/06	106	NA	93	96	Pass	NA	Pass	Pass
NASP18-GW-DPT/C24-10	02/16/06	115	NA	92	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/C37-10 1:5	02/16/06	113	NA	93	106	Pass	NA	Pass	Pass
NASP18-GW-DPT/E40-10 1:10	02/16/06	115	NA	89	101	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-55 1:5	02/16/06	134	NA	92	99	Pass	NA	Pass	Pass
NASP18-GW-DPT/K43-10 1:5	02/16/06	112	NA	93	100	Pass	NA	Pass	Pass
NASP18-GW-DPT/C43-20MS	02/16/06	100	NA	94	97	Pass	NA	Pass	Pass
NASP18-GW-DPT/C43-20MSD	02/16/06	96	NA	94	100	Pass	NA	Pass	Pass
VSTD 20	02/16/06	107	NA	93	94	Pass	NA	Pass	Pass

Comments:

Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

Samples analyzed late 2/12/06 and beyond did not have fluorobenzene as a control surrogate. Wrong surrogate solution was brought to jobsite.

Some samples had poor surrogate recovery because of a possible matrix effect of some "thicker" waters. Surrogates are high from low internal area counts.

***Surrogate Compounds:**

S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-13
Onsite Dates: 02/7/06-0216-06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: NASP18-GW-GI29-020706MS **Date of Analysis:** 2/7/2006
NASP18-GW-GI29-020706MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	98	69	35	Pass	Pass	> RPDL
Benzene	51	149	20	93	98	6	Pass	Pass	Pass
Toluene	60	136	20	96	98	2	Pass	Pass	Pass
Ethylbenzene	60	143	20	97	102	6	Pass	Pass	Pass
m,p-Xylene	58	142	20	90	94	5	Pass	Pass	Pass
o-Xylene	57	145	20	95	101	6	Pass	Pass	Pass
Naphthalene	46	153	20	98	106	8	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	106	108	2	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	106	108	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-GM24-020806MS **Date of Analysis:** 2/8/2006
NASP18-GW-GM24-020806MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	68	74	8	Pass	Pass	Pass
Benzene	51	149	20	89	93	4	Pass	Pass	Pass
Toluene	60	136	20	93	94	1	Pass	Pass	Pass
Ethylbenzene	60	143	20	95	94	1	Pass	Pass	Pass
m,p-Xylene	58	142	20	90	92	1	Pass	Pass	Pass
o-Xylene	57	145	20	94	97	3	Pass	Pass	Pass
Naphthalene	46	153	20	95	95	0	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	87	98	12	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	87	99	12	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/K13-10MS **Date of Analysis:** 2/8/2006
NASP18-GW-DPT/K13-10MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	96	79	19	Pass	Pass	Pass
Benzene	51	149	20	95	93	2	Pass	Pass	Pass
Toluene	60	136	20	99	96	3	Pass	Pass	Pass
Ethylbenzene	60	143	20	100	97	3	Pass	Pass	Pass
m,p-Xylene	58	142	20	100	98	2	Pass	Pass	Pass
o-Xylene	57	145	20	103	97	6	Pass	Pass	Pass
Naphthalene	46	153	20	96	99	3	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	88	95	7	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	94	100	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-13
Onsite Dates: 02/7/06-0216-06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-GS09-020906MS **Date of Analysis:** 2/9/2006
NASP18-GW-GS09-020906MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	95	104	8	Pass	Pass	Pass
Benzene	51	149	20	94	98	5	Pass	Pass	Pass
Toluene	60	136	20	97	100	3	Pass	Pass	Pass
Ethylbenzene	60	143	20	95	99	4	Pass	Pass	Pass
m,p-Xylene	58	142	20	94	99	5	Pass	Pass	Pass
o-Xylene	57	145	20	98	99	2	Pass	Pass	Pass
Naphthalene	46	153	20	98	99	1	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	107	100	7	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	105	100	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/N15-40-021106MS **Date of Analysis:** 2/11/2006
NASP18-GW-DPT/N15-40-021106MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	60	58	4	Pass	Pass	Pass
Benzene	51	149	20	55	48	14	Pass	< LCL	Pass
Toluene	60	136	20	94	103	10	Pass	Pass	Pass
Ethylbenzene	60	143	20	98	105	7	Pass	Pass	Pass
m,p-Xylene	58	142	20	97	105	8	Pass	Pass	Pass
o-Xylene	57	145	20	102	110	8	Pass	Pass	Pass
Naphthalene	46	153	20	70	78	12	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	50	60	18	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	53	62	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/C5-40MS **Date of Analysis:** 2/12/2006
NASP18-GW-DPT/C5-40MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	85	84	2	Pass	Pass	Pass
Benzene	51	149	20	109	97	11	Pass	Pass	Pass
Toluene	60	136	20	112	100	11	Pass	Pass	Pass
Ethylbenzene	60	143	20	128	119	7	Pass	Pass	Pass
m,p-Xylene	58	142	20	123	115	7	Pass	Pass	Pass
o-Xylene	57	145	20	127	120	6	Pass	Pass	Pass
Naphthalene	46	153	20	65	64	3	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	43	48	12	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	46	51	12	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-13
Onsite Dates: 02/7/06-0216-06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/C19-20MS **Date of Analysis:** 2/12/2006
NASP18-GW-DPT/C19-20MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	126	142	12	Pass	Pass	Pass
Benzene	51	149	20	117	129	10	Pass	Pass	Pass
Toluene	60	136	20	116	131	12	Pass	Pass	Pass
Ethylbenzene	60	143	20	123	137	11	Pass	Pass	Pass
m,p-Xylene	58	142	20	117	131	11	Pass	Pass	Pass
o-Xylene	57	145	20	126	142	12	Pass	Pass	Pass
Naphthalene	46	153	20	100	104	3	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	81	96	17	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	84	103	21	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/I39-30MS **Date of Analysis:** 2/13/2006
NASP18-GW-DPT/I39-30MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	95	102	7	Pass	Pass	Pass
Benzene	51	149	20	91	98	7	Pass	Pass	Pass
Toluene	60	136	20	91	97	7	Pass	Pass	Pass
Ethylbenzene	60	143	20	87	95	9	Pass	Pass	Pass
m,p-Xylene	58	142	20	82	93	12	Pass	Pass	Pass
o-Xylene	57	145	20	98	101	3	Pass	Pass	Pass
Naphthalene	46	153	20	130	157	18	Pass	> UCL	Pass
2-Methylnaphthalene	32	170	20	113	180	46	Pass	> UCL	> RPDL
1-Methylnaphthalene	31	172	20	105	167	46	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/G24-55MS **Date of Analysis:** 2/14/2006
NASP18-GW-DPT/G24-55MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	183	118	44	> UCL	Pass	> RPDL
Benzene	51	149	20	98	93	5	Pass	Pass	Pass
Toluene	60	136	20	89	90	0	Pass	Pass	Pass
Ethylbenzene	60	143	20	101	102	1	Pass	Pass	Pass
m,p-Xylene	58	142	20	85	93	8	Pass	Pass	Pass
o-Xylene	57	145	20	100	106	6	Pass	Pass	Pass
Naphthalene	46	153	20	101	98	3	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	78	83	6	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	82	87	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-13
Onsite Dates: 02/7/06-0216-06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/E34-40MS **Date of Analysis:** 2/15/2006
NASP18-GW-DPT/E34-40MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	106	96	10	Pass	Pass	Pass
Benzene	51	149	20	105	95	10	Pass	Pass	Pass
Toluene	60	136	20	104	96	8	Pass	Pass	Pass
Ethylbenzene	60	143	20	95	87	9	Pass	Pass	Pass
m,p-Xylene	58	142	20	90	81	10	Pass	Pass	Pass
o-Xylene	57	145	20	99	90	9	Pass	Pass	Pass
Naphthalene	46	153	20	78	70	11	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	92	79	15	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	94	79	18	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/C43-20MS **Date of Analysis:** 2/16/2006
NASP18-GW-DPT/C43-20MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	90	90	1	Pass	Pass	Pass
Benzene	51	149	20	89	90	1	Pass	Pass	Pass
Toluene	60	136	20	93	95	2	Pass	Pass	Pass
Ethylbenzene	60	143	20	86	89	4	Pass	Pass	Pass
m,p-Xylene	58	142	20	81	82	1	Pass	Pass	Pass
o-Xylene	57	145	20	90	91	1	Pass	Pass	Pass
Naphthalene	46	153	20	63	67	5	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	78	85	9	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	76	85	11	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 2/6/2006
LCS 2 2/7/2006
LCS 3 2/8/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
MtBE	15	to	162	75	107	117	Pass	Pass	Pass
Benzene	55	to	141	98	113	116	Pass	Pass	Pass
Toluene	59	to	138	96	102	109	Pass	Pass	Pass
Ethylbenzene	66	to	136	94	99	105	Pass	Pass	Pass
m,p-Xylene	57	to	141	95	98	108	Pass	Pass	Pass
o-Xylene	59	to	144	94	99	105	Pass	Pass	Pass
Naphthalene	50	to	150	100	96	108	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	107	93	113	Pass	Pass	Pass
1-Methylnaphthalene	50	to	164	108	95	111	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**:	**Analyst:** Mark/Tuan/Enoch
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-13
Onsite Dates: 02/7/06-0216-06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: LCS 4 — **Date of Analysis:** 2/9/2006
LCS 5 — 2/9/2006
LCS 6 — 2/10/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
MtBE	15	to	162	107	57	109	Pass	Pass	Pass
Benzene	55	to	141	95	115	110	Pass	Pass	Pass
Toluene	59	to	138	98	108	106	Pass	Pass	Pass
Ethylbenzene	66	to	136	96	105	101	Pass	Pass	Pass
m,p-Xylene	57	to	141	93	106	100	Pass	Pass	Pass
o-Xylene	59	to	144	95	110	102	Pass	Pass	Pass
Naphthalene	50	to	150	108	109	107	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	126	NA	112	Pass	NA	Pass
1-Methylnaphthalene	50	to	164	127	NA	110	Pass	NA	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines. Second 2/9/06 LCS did not have mnaps in std mix.

Samples: LCS 7 — **Date of Analysis:** 2/11/2006
LCS 8 — 2/12/2006
LCS 9 — 2/13/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
MtBE	15	to	162	54	123	120	Pass	Pass	Pass
Benzene	55	to	141	111	120	130	Pass	Pass	Pass
Toluene	59	to	138	100	112	121	Pass	Pass	Pass
Ethylbenzene	66	to	136	114	116	113	Pass	Pass	Pass
m,p-Xylene	57	to	141	116	118	113	Pass	Pass	Pass
o-Xylene	59	to	144	109	116	116	Pass	Pass	Pass
Naphthalene	50	to	150	88	72	124	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	69	74	159	Pass	Pass	> UCL
1-Methylnaphthalene	50	to	164	67	74	150	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 10 — **Date of Analysis:** 2/14/2006
LCS 11 — 2/15/2006
LCS 12 — 2/16/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11	LCS#12	LCS#10	LCS#11	LCS#12
MtBE	15	to	162	110	143	97	Pass	Pass	Pass
Benzene	55	to	141	135	88	117	Pass	Pass	Pass
Toluene	59	to	138	104	80	105	Pass	Pass	Pass
Ethylbenzene	66	to	136	93	73	98	Pass	Pass	Pass
m,p-Xylene	57	to	141	94	73	101	Pass	Pass	Pass
o-Xylene	59	to	144	95	75	103	Pass	Pass	Pass
Naphthalene	50	to	150	127	99	142	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	117	103	86	Pass	Pass	Pass
1-Methylnaphthalene	50	to	164	115	103	86	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/A11-55	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GW25-02072006	2/7/06	Water	1	<5.0	< 1.0	< 1.0	**8.0**	**38.0**	**1.6**	**22.8**	**26.8**	**24.5**
NASP18-GW-DPT/A11-40	2/7/06	Water	1	<5.0	**14.0**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A11-30	2/7/06	Water	1	<5.0	**8.3**	**3.8**	< 1.0	<2.0	< 1.0	<5.0	**5.9**	**6.8**
NASP18-GW-DPT/A11-20	2/7/06	Water	1	<5.0	**2.9**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A11-10	2/7/06	Water	1	<5.0	**1.9**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS28-02072006	2/7/06	Water	10	<50	<10	**39**	**120**	**640**	**310**	**73**	<50	<50
NASP18-GW-GI29-02072006	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GI02-02072006 *1	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS02-02072006	2/7/06	Water	10	<50	<10	**56**	**130**	**420**	**46**	**160**	**91**	**85**
NASP18-GW-DPT/A12-55	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A12-40	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A12-30	2/7/06	Water	1	<5.0	**1.8**	< 1.0	< 1.0	**3.9**	**1.0**	<5.0	<5.0	<5.0
NASP18-GW-DPT/A12-20	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A12-10	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS07-02072006	2/7/06	Water	2	<10	**3.0**	**4.2**	**44**	**200**	**6.7**	**59**	**36**	**31**
NASP18-GW-DPT/A13-55	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A13-40	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A13-30 *2	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A13-20	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A13-10	2/7/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS26-02072006	2/8/06	Water	10	<50	<10	<10	**160**	**130**	<10	**280**	**190**	**140**
NASP18-GW-GI27-02072006	2/8/06	Water	1	<5.0	**7.1**	< 1.0	**6.0**	**12.6**	**6.3**	<5.0	<5.0	<5.0
NASP18-GW-GS???	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**3.1**	**1.1**	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/K15-55	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K15-40	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K15-30	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K15-20	2/8/06	Water	10	<50	**43**	< 10	**78**	**440**	**140**	**120**	<50	<50
NASP18-GW-DPT/K15-10	2/8/06	Water	1	<5.0	**7.7**	< 1.0	**9.3**	**52.4**	**18.4**	**8.6**	<5.0	<5.0
NASP18-GW-GS22-02082006	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GM24-02082006	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K13-55	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K13-40	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K13-30	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K13-20	2/8/06	Water	1	<5.0	**4.2**	< 1.0	< 1.0	**2.6**	**1.3**	<5.0	<5.0	<5.0
NASP18-GW-DPT/K13-10	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS30-02082006	2/8/06	Water	10	<50	< 10	< 10	< 10	**210**	**76**	<50	<50	<50
NASP18-GW-GI31-02082006	2/8/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K11-55	2/8/06	Water	1	<5.0	**1.8**	**1.8**	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K11-40	2/8/06	Water	1	<5.0	**2.6**	**1.9**	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K11-30	2/8/06	Water	1	<5.0	**1.2**	**1.2**	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K11-20	2/8/06	Water	1	<5.0	**1.1**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K11-10	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/B9-55	2/9/06	Water	1	<5.0	**4.5**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/B9-40	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/B9-30	2/9/06	Water	1	<5.0	< 1.0	< 1.0	**2.8**	**101**	**2.4**	<5.0	<5.0	<5.0
NASP18-GW-DPT/B9-20	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**16.9**	**2.5**	<5.0	<5.0	<5.0
NASP18-GW-DPT/B9-10	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-GI06-02092006	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS06-02092006	2/9/06	Water	2	<10	< 2.0	**25**	**16**	**140**	**51**	19.0	12.0	13.0
NASP18-GW-DPT/C15-55	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**2.4**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C15-40	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C15-30	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C15-20	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C15-10	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS09-02092006	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS21-02092006	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GI05-02092006	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A6-55	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A6-40	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A6-30	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A6-20	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/A6-10	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS05-02092006	2/9/06	Water	1	<5.0	< 1.0	< 1.0	**8.4**	**36.8**	**22.1**	**17.1**	**32.2**	**29.6**
NASP18-GW-DPT/101-55	2/9/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/101-40	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/101-30 *3	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**6.5**	**2.0**	<5.0	<5.0	<5.0
NASP18-GW-DPT/101-20	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/101-10	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17-20	2/10/06	Water	1	<5.0	**1.1**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/J9-55	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/J9-40	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/J9-30	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/J9-20	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/J9-10	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS12-02102006	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS11-02102006	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS13-02102006	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS10-02102006	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-FCEB01-02102006	2/10/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS18-02102006	2/10/06	Water	2,10	<10	**6.3**	< 2.0	**160**	**680**	**2.3**	**160**	**76**	**72**
NASP18-GW-GS17-02102006	2/10/06	Water	1	<5.0	**17.5**	< 1.0	**19.0**	**39.2**	< 1.0	**98.3**	**14.1**	**13.7**
NASP18-GW-GS19-02102006	2/10/06	Water	1	<5.0	**1.8**	< 1.0	< 1.0	**11.6**	**10.7**	<5.0	<5.0	<5.0
NASP18-GW-DU01-02102006	2/11/06	Water	1, 2,10	<5.0	**450**	**5.6**	**130**	**290**	**53.3**	**160**	**50.7**	**39.5**
NASP18-GW-GS01-02102006	2/11/06	Water	1, 2,10	<5.0	**470**	**5.7**	**130**	**280**	**56.5**	**180**	**59.7**	**45.6**
NASP18-GW-GI01-02102006	2/11/06	Water	1	<5.0	**10.8**	< 1.0	**2.7**	**6.1**	**1.0**	<5.0	<5.0	<5.0
NASP18-GW-DPT/N15-55	2/11/06	Water	1	<5.0	**2.4**	< 1.0	**1.4**	**3.5**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/N15-40	2/11/06	Water	1	<5.0	**1.2**	< 1.0	< 1.0	**2.3**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/N15-30	2/11/06	Water	1	<5.0	**1.2**	< 1.0	< 1.0	**2.5**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/N15-20	2/11/06	Water	1	<5.0	**2.8**	< 1.0	**2.2**	**11.6**	**2.2**	<5.0	<5.0	<5.0
NASP18-GW-DPT/N15-10	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17.5-55	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**2.1**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17.5-40	2/11/06	Water	1	<5.0	**2.0**	< 1.0	< 1.0	**2.5**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17.5-30	2/11/06	Water	1	<5.0	**25.0**	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17.5-20	2/11/06	Water	1	<5.0	**50.9**	**1.7**	**12.1**	**87.8**	**39.1**	<5.0	<5.0	<5.0
NASP18-GW-DPT/K17.5-10	2/11/06	Water	1	<5.0	**1.7**	< 1.0	< 1.0	**5.1**	**1.5**	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-GS04-02112006	2/11/06	Water	1	<5.0	< 1.0	< 1.0	**1.6**	**3.2**	< 1.0	**6.7**	**22.5**	**16.9**
NASP18-GW-GI04-02112006	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GS08-02112006	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-GI03-02112006	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I17-55	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I17-40	2/11/06	Water	1	<5.0	10	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I17-30	2/11/06	Water	1	<5.0	**81.5**	< 1.0	**24**	**32.6**	**14.2**	<5.0	<5.0	<5.0
NASP18-GW-DPT/I17-20	2/11/06	Water	1	<5.0	**8.2**	< 1.0	< 1.0	**3.1**	**1.2**	<5.0	<5.0	<5.0
NASP18-GW-DPT/I17-10	2/11/06	Water	5	<25	<5.0	**360**	**58**	**320**	**200**	**47**	**30**	**28**
NASP18-FCEB02-02112006	2/11/06	Water	1	<5.0	< 1.0	**1.7**	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I5-55	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I5-40	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I5-30	2/11/06	Water	1	<5.0	**1.3**	**2.0**	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I5-20	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/I5-10	2/11/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C5-55	2/12/06	Water	1	<5.0	**3.8**	**3.3**	**2.9**	**8.4**	**3.0**	<5.0	<5.0	<5.0
NASP18-GW-DPT/C5-40	2/12/06	Water	1	<5.0	**1.0**	**2.0**	< 1.0	**2.4**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C5-30	2/12/06	Water	1	<5.0	< 1.0	**1.1**	< 1.0	**2.6**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C5-20	2/12/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/C5-10	2/12/06	Water	1	<5.0	< 1.0	**1.9**	**1.3**	**21.2**	**6.6**	<5.0	**10.1**	**12.7**
NASP18-GW-DPT/C19-55	2/12/06	Water	1	<5.0	**1.1**	**3.8**	**2.3**	**6.6**	**2.4**	<5.0	<5.0	<5.0
NASP18-GW-DPT/C19-40	2/12/06	Water	1	<5.0	< 1.0	**1.5**	< 1.0	**4.6**	**1.2**	<5.0	<5.0	<5.0
NASP18-GW-DPT/C19-30	2/12/06	Water	1	<5.0	**2.6**	**5.2**	**1.5**	**5.9**	**2.5**	<5.0	<5.0	<5.0
NASP18-GW-DPT/C19-20	2/12/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/C19-10	2/12/06	Water	5,10	<25	<5.0	**110**	**120**	**1800**	**940**	**93**	**74**	**66**
NASP18-GW-DPT/N19-30	2/12/06	Water	1	<5.0	< 1.0	< 1.0	1.0	**8.2**	3.7	<5.0	<5.0	<5.0
NASP18-GW-DPT/K21-30	2/12/06	Water	1	<5.0	< 1.0	**1.1**	**1.2**	**11.7**	**3.6**	<5.0	<5.0	<5.0
NASP18-GW-DPT/F19-55	2/13/06	Water	5	<25	< 5.0	**6.8**	**20**	**230**	**66**	**61**	**95**	**87**
NASP18-GW-DPT/F19-40	2/12/06	Water	5	<25	< 5.0	< 5.0	< 5.0	**30**	**11**	<25	<25	<25
NASP18-GW-DPT/F19-30	2/12/06	Water	5	<25	< 5.0	< 5.0	< 5.0	**18**	**6.8**	<25	<25	<25
NASP18-GW-DPT/F19-20	2/12/06	Water	5	<25	< 5.0	< 5.0	**5.4**	**33**	**14**	<25	<25	<25
NASP18-GW-DPT/F19-10	2/12/06	Water	20	< 100	< 20	< 20	**120**	**720**	**32**	**150**	**120**	**110**
NASP18-FCEB03-02122006	2/12/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**3.4**	**1.1**	<5.0	<5.0	<5.0
NASP18-GW-DPT/F21-55	2/12/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**3.4**	**1.2**	<5.0	<5.0	<5.0
NASP18-GW-DPT/F21-40	2/12/06	Water	1	<5.0	< 1.0	**1.6**	< 1.0	**5.8**	**1.6**	<5.0	<5.0	<5.0
NASP18-GW-DPT/F21-30	2/12/06	Water	1	<5.0	< 1.0	**1.6**	< 1.0	**3.2**	**1.1**	<5.0	<5.0	<5.0
NASP18-GW-DPT/F21-20	2/12/06	Water	1	<5.0	< 1.0	< 1.0	< 1.0	**2.7**	< 1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/F21-10	2/12/06	Water	1	<5.0	< 1.0	< 1.0	**2.0**	**9.9**	**4.1**	<5.0	**7.0**	**8.8**
NASP18-GW-DPT/G40-55	2/13/06	Water	2	< 10	< 2.0	**4.0**	**6.4**	**120**	**15**	**13**	**59**	**43**
NASP18-GW-DPT/G40-40	2/13/06	Water	2	< 10	< 2.0	**2.0**	**4.5**	**93**	**11**	**10**	**50**	**35**
NASP18-GW-DPT/G40-30	2/13/06	Water	2	< 10	< 2.0	**2.0**	**7.2**	**189**	**22**	**18**	**100**	**74**
NASP18-GW-DPT/G40-20	2/13/06	Water	2	< 10	< 2.0	< 2.0	**3.1**	**78.4**	**9.3**	**9.2**	**63**	**77**
NASP18-GW-DPT/G40-10	2/13/06	Water	5,10	< 25	< 5.0	**5.0**	**49**	**860**	**300**	**140**	**310**	**250**
NASP18-GW-DPT/I39-55	2/13/06	Water	1	< 5.0	< 1.0	**2.5**	**1.7**	**17.5**	**4.6**	**4.2**	**12.3**	**10.2**
NASP18-GW-DPT/I39-40	2/13/06	Water	1	< 5.0	**4.3**	**3.3**	**2.0**	**24.8**	**7.3**	**4.3**	**7.3**	**9.2**
NASP18-GW-DPT/I39-30	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**5.4**	< 1.0	< 5.0	< 5.0	**5.3**
NASP18-GW-DPT/I39-20	2/13/06	Water	1, 2	<5.0	< 1.0	**21.3**	**89.1**	**1800 L**	**580 L**	**200**	**190**	**140**
NASP18-GW-DPT/I39-10	2/13/06	Water	1, 2	<5.0	< 1.0	**18.4**	**3.5**	**1600 L**	**520 L**	**150**	**130**	**99**

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/I37-55	2/13/06	Water	1	< 5.0	**3.0**	**2.8**	**2.0**	**28.5**	**8.1**	**9.0**	**23.1**	**24.7**
NASP18-GW-DPT/I37-40	2/13/06	Water	1	< 5.0	**1.1**	**1.6**	< 1.0	**8.4**	**2.5**	< 5.0	**7.0**	**8.0**
NASP18-GW-DPT/I37-30	2/13/06	Water	1	< 5.0	< 1.0	1.0	< 1.0	**7.5**	**2.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I37-20	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**5.3**	**1.4**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I37-10	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G35-55	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**7.4**	**2.0**	< 5.0	**13.8**	**11.1**
NASP18-GW-DPT/G35-40	2/13/06	Water	1	< 5.0	< 1.0	**1.2**	< 1.0	**5.5**	**1.5**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G35-30	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.4**	**1.2**	< 5.0	**5.1**	< 5.0
NASP18-GW-DPT/G35-20	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.0**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G35-10	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.8**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DU02-02132006	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.3**	**1.2**	< 5.0	< 5.0	< 5.0
NASP18-GW-FCEB04-02132006	2/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.5**	< 1.0	**5.1**	**10.5**	**8.3**
NASP18-GW-DPT/G24-55	2/14/06	Water	1	< 5.0	< 1.0	**1.3**	< 1.0	**4.8**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G24-40	2/14/06	Water	1	< 5.0	**1.3**	**1.6**	**1.4**	**10.4**	**1.3**	**5.6**	< 5.0	< 5.0
NASP18-GW-DPT/G24-30	2/14/06	Water	1	< 5.0	**1.0**	**1.5**	**1.0**	**7.5**	**1.0**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G24-20	2/14/06	Water	1	< 5.0	< 1.0	**1.2**	**4.1**	**21.8**	**9.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G24-10	2/14/06	Water	1	< 5.0	**8.8**	**1.3**	**20.1**	**190**	**2.0**	**101**	**57.5**	**49.4**
NASP18-GW-FCEB05-02142006	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.8**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G27-55	2/14/06	Water	1	< 5.0	**1.2**	**1.1**	< 1.0	**3.5**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G27-40	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G27-30	2/14/06	Water	1	< 5.0	**2.0**	**3.2**	**1.2**	**4.0**	**1.6**	< 5.0	**6.8**	**7.5**
NASP18-GW-DPT/G27-20	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G27-10	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G30-55	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.3**	< 1.0	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/G30-40	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G30-30	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G30-20	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G30-10	2/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	**18.3**
NASP18-GW-DPT/E37-55	2/14/06	Water	10	< 50	< 10	**330**	**240**	**2500 L**	**900**	**510**	**740**	**570**
NASP18-GW-DPT/E37-40	2/14/06	Water	10	< 50	< 10	**93**	**72**	**770**	**260**	**160**	**300**	**220**
NASP18-GW-DPT/E37-30	2/14/06	Water	10	< 50	< 10	**69**	**57**	**620**	**210**	**120**	**210**	**160**
NASP18-GW-DPT/E37-20	2/14/06	Water	10	< 50	< 10	**59**	**54**	**570**	**200**	**130**	**220**	**170**
NASP18-GW-DPT/E37-10	2/14/06	Water	10	< 50	< 10	**450**	**160**	**1600**	**660**	**350**	**280**	**240**
NASP18-GW-DPT/E34-55	2/15/06	Water	1	< 5.0	< 1.0	**1.6**	< 1.0	**2.7**	**1.0**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E34-40	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E34-30	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E34-20	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E34-10	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C37-55	2/15/06	Water	20	< 100	< 20	< 20	**100**	**2400**	**420**	**360**	**1100**	**820**
NASP18-GW-DPT/C37-40	2/15/06	Water	20	< 100	< 20	< 20	**110**	**2500**	**460**	**300**	**690**	**520**
NASP18-GW-DPT/C37-30	2/15/06	Water	1	< 5.0	< 1.0	**2.0**	**3.8**	**76**	**13.4**	**8.6**	**22.9**	**20.1**
NASP18-GW-DPT/C37-20	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**19.8**	**3.3**	< 5.0	**6.8**	**5.2**
NASP18-GW-DPT/C37-10	2/15/06	Water	2,5	< 10	< 2	< 2	**25**	**620**	**110**	**54**	**79**	**69**
NASP18-GW-FCEB06-02152006	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	<2.0	< 1.0	< 5.0	6.3	5.6
NASP18-GW-FCEB07-02152006	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E40-55	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	**9.0**	**148**	**39.0**	**17.3**	**28.6**	**24.1**
NASP18-GW-DPT/E40-40	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	**1.4**	**23.8**	**6.1**	< 5.0	5.6	< 5.0
NASP18-GW-DPT/E40-30	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**11.1**	**2.7**	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/E40-20	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	**2.8**	**48.4**	**11.8**	< 5.0	6.2	< 5.0
NASP18-GW-DPT/E40-10	2/15/06	Water	1,10	< 5.0	< 1.0	**5.7**	**75**	**1300**	**370**	**150**	**110**	**92**
NASP18-GW-DPT/G44-55	2/15/06	Water	1	< 5.0	**5.9**	**2.1**	**5.4**	**64.9**	**20**	**7.3**	**9.8**	**9.4**
NASP18-GW-DPT/G44-40	2/15/06	Water	1	< 5.0	**1.2**	**1.4**	**2.0**	**23.3**	**7.5**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G44-30	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**7.4**	**2.2**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G44-20	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.9**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G44-10	2/15/06	Water	1	< 5.0	< 1.0	< 1.0	**3.2**	**56.8**	**17.1**	**13.5**	**15.4**	**14.9**
NASP18-GW-DPT/K43-55	2/16/06	Water	1,5	< 5.0	**36.7**	**5.2**	**34.5**	**110**	**7.9**	**85.8**	**58.7**	**48.2**
NASP18-GW-DPT/K43-40	2/16/06	Water	1	< 5.0	**2.3**	**2.0**	**5.5**	**67**	**1.7**	**17.2**	**12.8**	**10.8**
NASP18-GW-DPT/K43-30	2/16/06	Water	1	< 5.0	**2.7**	**1.8**	**3.3**	**40**	**1.0**	**10.1**	**8.0**	**7.9**
NASP18-GW-DPT/K43-20	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	< 5.0	**7.5**	**6.4**
NASP18-GW-DPT/K43-10	2/16/06	Water	1	< 5.0	**1.3**	**1.2**	**24**	**262 L**	**7.5**	**38.8**	**17.6**	**19.1**
NASP18-GW-DPT/C43-55	2/16/06	Water	1	< 5.0	**8.0**	**3.8**	**2.3**	**13.2**	**2.3**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C43-40	2/16/06	Water	1	< 5.0	**1.5**	**2.0**	< 1.0	**3.8**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C43-30	2/16/06	Water	1	< 5.0	**1.4**	**1.4**	< 1.0	**2.3**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C43-20	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C43-10	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A37-55	2/16/06	Water	1	< 5.0	< 1.0	**1.2**	< 1.0	**2.2**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A37-40	2/16/06	Water	1	< 5.0	**2.5**	**1.8**	< 1.0	**2.0**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A37-30	2/16/06	Water	1	< 5.0	**1.9**	**1.6**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A37-20	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A37-10	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C24-55	2/16/06	Water	1	< 5.0	**6.3**	**1.6**	< 1.0	**4.7**	**1.3**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C24-40	2/16/06	Water	1	< 5.0	**1.6**	**1.9**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-13

NAS Pensacola Site 18

Pensacola, FL

Prepared for:TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/C24-30	2/16/06	Water	1	< 5.0	< 1.0	**1.2**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C24-20	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C24-10	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-FCEB08-02162006	2/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

FDEP Data Qualifier "L": Greate than the upper calibration standard.

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS INC
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	
TENUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
PEN-18 GA6	2/7/06	0910			2/7/06	0915		GW	2	✓				NASP18-GW-DPT/A6-55
PEN-18-GM25		0919				0925								NASP18-GW-GM25-020720
NASP18-GW-DPT/A6-55		0940				0950								
NASP18-GW-DPT/A11-30		1005				1010								
NASP18-GW-DPT/A11-20		1030				1027								
NASP18-GW-DPT/A11-10		1045				1032								
NASP18-GW_GS28-020720		1042				1055								
NASP18-GW-GI29-020720		1112				1120								
NASP18GW-GW-GI02-020720		1147				1155								
NASP18-GW-DPT/A12-55		1220				1230								
NASP18-GW-DPT/A12-40		1245				1245								
NASP18-GW-GS02-020720		1247				1253								
NASP18-GW-DPT/A12-30		1300				1300								
NASP18-GW-DPT/A12-20		1310				1312								
NASP18-GW-DPT/A12-10		1320				1320								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 2/7/06
Relinquished by: (Signature) CM	Date / Time 2/7/06	Received by: (Signature)	Date / Time

Remarks and Observations
Samples were renamed by TENUS

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	
TENUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-GS07-020720006	2/7/06	1447			2/7/06	1454		GW	2	✓				
NASP18-GW-GS26-020720006		1532				1543								
NASP18-GW-DPT/A13-55		1510				1545								
NASP18-GW-DPT/A13-40		1525				1545								
NASP18-GW-DPT/A13-30		1530				1555								
NASP18-GW-DPT/A13-20		1540				1555								
NASP18-GW-DPT/A13-10		1550				1600								
NASP18-GW-GI27-020720006		1607				1615								
ES222		1707				1715								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)* CM	Date / Time 2/7/06	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	
TENUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/K15-55	0820	2/8/06		✓	2/8/06	0820		GW	2	✓				
-40	0835					0845								
-30	0850					0845								
-20	0900					0900								
-10	0915					0900								
NASP18-GW-GM22-02082006	0900					0910								
NASP18-GW-GM24-02082006	0930					0950								
NASP18-GW-DPT/K13-55	0945					0950								
NASP18-GW-GS0-02082006	1012					1015								
NASP18-GW-DPT/K13-40	1000					1025								
" -30	1015					1025								
NASP18-GW-GI31-02082006	1047					1100								
NASP18-GW-DPT/K13-20	1030					1104								
" -10	1045					1104								
NASP18-GW-DPT/K11-55	1355					1400								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 2/8/06
Relinquished by: (Signature)	Date / Time 2/8/06	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
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MOBILE UNIT #

CLIENT NAME: TENJ

PROJECT NAME & ADDRESS: NAS Pensacola Site 18

SAMPLERS:

CONTACT PERSON: Chuck Metz

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NAS18-GW-DPT/K11-40	2/8/06	1410			2/8/06	1425		GW	2	✓				
30	↓	1425			↓	1517		↓	↓	↓				
20	↓	1440			↓	1517		↓	↓	↓				
10	↓	1455			↓	1517		↓	↓	↓				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
		[signature]	2/8/06
Relinquished by: *(Signature)* CM	Date / Time 2/8/06	Received by: *(Signature)*	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	
TEWS	NAS Pensacola, site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/B9-55	2/9/06	0800			2/9/06	0808		GW	2	✓				
-40		0820				0822								
-30		0835				0839								
NASP18-GW-G106-020906		0853				0900								
NASP18-GW-DPT/B9-20		0850				0904								
NASP18-GW-DPT/B9-10		~~0932~~ 0905				0935								
NASP18-GW-G506-020906		0932				0940								
NASP18-GW-DPT/C15-55		0955				1010								
-40		1015				1030								
NASP18-GW-G309-020906		1033				1039								
NASP18-GW-DPT/C15-30		1030				1045								
NASP18-GW-DPT/C15-20		1045				1108								
NASP18-GW-DPT/C15-10		1100				1125								
NASP18-GW-G521-020906		1132				1138								
NASP18-GW-DPT/A6-55		1345				1358								

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)		Received by: (Signature) [signature]	2/9/06	
Relinquished by: (Signature) [signature]	2/9/06	Received by: (Signature)		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT #

CLIENT NAME: TENUS

PROJECT NAME & ADDRESS: NAS Pensacola Site 18

SAMPLERS:

CONTACT PERSON: Chuck Metz

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/A6-40	2/9/06	1400			2/9/06	1413		GW	2	✓				
NASP18-GW-GJ05-02092006		1407				1415								
NASP18-GW-DPT/A6-30		1415				1445								
" " -20		1430				1500								
" " -10		1445				1500								
NASP18-GW-GJ05-02092006		1552				1600								
NASP18-GW-DPT/101-55		1605				1615								
40		1620			2/10/06	0800								
30		1635												
20		1650												
10		1705												

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/9/06	**Remarks and Observations**
Relinquished by: *(Signature)*	2/9/06	Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS INC
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TENUS	Pensacola NAS Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/K17-20	~~2/8/06~~ 2/10/06	0820		✓	2/10/06	0825		W	2	✓				
NASP18-GW-GS12-02102006		0931				0945								
NASP18-GW-DPT/S9-55		0910				0945								
NASP18-GW-DPT/S9-40		0925				1005								
" 30		0940				1005								
" 20		0955				1024								
NASP18-GW-GS11-02102006		1012				1024								
NASP18-GW-DPT/S9-10		1010				1100								
NASP18-GW-GS13-02102006		1300				1247								
NASP18-GW-GS10-02102006		1222				1330								
NASP18-PCEB01-02102006		1030				1515		W	2	✓				
NASP18-GW-GS19-02102006		1420				1515		W	2	✓				
NASP18-GW-GS17-02102006		1330				1540		W	2	✓				
NASP18-GW-GS9-02102006		1618				1645		W	2	✓				
NASP18-GW-DW01-02102006		0000				1730		W	2	✓				

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
		[signature]	2/10/06
Relinquished by: (Signature) [signature]	Date / Time 2/10/06	Received by: (Signature) [signature]	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
TETRA TECH	Pensacola NAS Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-GS01-02102006	2/10/06	1704		✓	2/10/06 TL 10 Feb 06	1730		GW	2	✓				
NASP18-GW-GI01-02102006	↓	1745			↓	1730		GW	2	✓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* CM	Date / Time 2/10/06	Received by: *(Signature)*	Date / Time 10 Feb 06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KBL

CLIENT NAME	PROJECT NAME & ADDRESS
Ttnus	NAS Pensacola Site 18
SAMPLERS	CONTACT PERSON: Chuck Metz, John Knott
	BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES; BTEX MT

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	BTEX MT			COMMENT
NASP18-GW-DPT/015-55	02-11-06	0825		✓	02/11/06	0830		GW	2	✓				
NASP18-GW-DPT/015-40		0840		✓		0840		GW	2	✓				
DPT/015-30		0855		✓		0925		W	2	✓				
DPT/015-20		09:10		✓		↓		W	2	✓				
DPT/015-10		0925		✓		0935		W	2	✓				
NASP18-GW-DPT/K17.5-55		1025		✓		1030		W	2	✓				
NASP18-GW-DPT/K17.5-40		1040		✓		1115		W	2	✓				
NASP18-GW-DPT/K17.5-30		1055		✓		1115		W	2	✓				
DPT/K17.5-20		1110		✓		1245		W	2	✓				
DPT/K17.5-10		1125		✓		1245		W	2	✓				
NASP18-GW-GS04-02112006		1120		✓		1300		W	2	✓				
NASP18-GW-GI04-02112006		1142		✓		1300		W	2	✓				
NASP18-GW-GS08-02112006		1220		✓		1300		W	2	✓				
NASP18-GW-GI03-02112006		1254		✓		1410		W	2	✓				
NASP18-GW-DPT/E17-55		1405		✓		1410		W	2	✓				

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/11/06	[signature]	2/11/06
Relinquished by: (Signature) [signature]	Date / Time 2/11/06	Received by: (Signature) [signature]	Date / Time 2-11-06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME: Tetra Tech

PROJECT NAME & ADDRESS: NAS Pensacola Site 18

SAMPLERS:

CONTACT PERSON: Chuck Metz, John Knight

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
DPT/I17-40	11Feb06	1405		✓	11Feb06	1440		W	2	✓				
DPT/I17-30	11Feb06	1420			11Feb06	1440		W	2	✓				
DPT/I17-20		1435				1513								
DPT/I17-10		1450												
NAS18-FEB06-02112006		15:20				15:35								
NAS18-GW-DPT/I5-55		1615				1635		W	2	✓				
DPT/I5-40		1630				1655		W	2	✓				
DPT/I5-30		1645				1655		W	2	✓				
DPT/I5-20		1700				1730		W	2	✓				
DPT/I5-10		1715				1730		W	2	✓				

	Date / Time		Date / Time
Precleaned Containers Relinquished by: (Signature)		Received by: (Signature)	2/11/06
Relinquished by: (Signature)	2/11/06	Received by: (Signature)	2

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
TETRA TECH	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz, John Wright	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASPIG-GW-DPT/C5-55	2/12/06	0800		✓	2/12/06	0805		GW	2	✓				
-40		0810		✓		0820								
-30		0820		✓		0920								
-20		0830		✓		0930								
-10		0840		✓		0940								
DPT/C19-55		1000		✓		1110								
-40		1010		✓		1110								
-30		1025		✓		1110								
-20		1035		✓		1150								
-10		1045		✓		1150								
DPT/N19-30		1210		✓		1250								
DPT/K21-30		1245				1315								
DPT/F19-55		1330				1440								
-40		1340				1440								
-30		1355				1440								

	Date / Time		Date / Time
Precleaned Containers Relinquished by: (Signature) [signature]	2/12/06	Received by: (Signature) [signature]	2/12/06
Relinquished by: (Signature) [signature]	2/12/06	Received by: (Signature) [signature]	2/12/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola site 18	
SAMPLERS	CONTACT PERSON: Chuck metz, John Wright	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASPB-GW-DPT/F19-20	2/12/06	14:05		✓		15:10		W	2	✓				
-10		14:10				✓		W	2	✓				
FCEB03-021206		15:00				15:23								
DPT/F21-55		1535				1645								
-40		1550				1645								
-30		1605				1645								
-20		1615				1655								
-10		1625				1708								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/12/06	[signature]	2/12/06
Relinquished by: (Signature) [signature]	Date / Time 2/12/06	Received by: (Signature) [signature]	Date / Time 2/12/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz, John Wright	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/G40-55	2/13/05	0900		✓	2/13/05	0925		W	2	✓				
-40		0915				0925								
-30		09:25				09:52								
-20		09:35												
-10		09:45												
DPT/I39-55		1045				1105								
-40		1055				1105								
-30		1105 ~~0925~~ TK 13 Feb 06				1145								
-20		1115				1145								
-10		1125				1145								
DPT/I37-55		1230				1425								
-40		1240												
-30		1250												
-20		1300												
-10		1310												

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/13/06	[signature]	2/13/06
Relinquished by: (Signature) [signature]	Date / Time 2/13/06	Received by: (Signature) [signature]	Date / Time 2/13/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
Tt NUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Meta, John Wright	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NAS P18-GW-DPT/635-55	2/13/06	1445		✓	2/13/06	1505		W	2	✓				
-40		1455				1505								
-30		1505				1540								
-20		1515												
-10		1525												
DUC2-02132006		2000												
FCEB04-02132006		1550				1550								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/13/06	[signature]	2/13/06
Relinquished by: (Signature) [signature]	Date / Time 2/13/06	Received by: (Signature) [signature]	Date / Time 2/13/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Motz, John Wright	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/G24-55	2/14/06	0830		✓	2/14/06	0855		W	2	✓				
-40		0845				0855								
-30		0855				0926								
-20		0905												
-10		0915												
FCEB05-02142006		0930												
NASP18-GW-DPT/G27-55		1000				1030								
-40		1010				1030								
-30		1020				1100								
-20		1030				1100								
-10		1040				1100								
DPT/G30-55		1135				1500								
-40		1145				1500								
-30		1155				1545								
-20		1205				1545								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
[signature]	2/14/06	[signature]	2/14/06
Relinquished by: *(Signature)* [signature]	Date / Time 2/14/06	Received by: *(Signature)* [signature]	Date / Time 2/14/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz, John Wright	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/G30-10	2/14/06	1215		✓	2/14/05	1545		W	2	✓				
DPT/E37-55		1620		✓		1630								
-40		1630				1710								
-30		1640												
-20		1650												
-10		1700												

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/14/06	[signature]	2/14/06
Relinquished by: (Signature) [signature]	Date / Time 2/14/06	Received by: (Signature) [signature]	Date / Time 2/14/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS Inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TENUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz, John Wright	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NAS P18-GW-DPT/E34-55	2/15/06	0840		✓	2/15/06	0825		W	2	✓				
-40		0850				0825								
-30		0900				0825								
-20		0910				0845								
-10		0920				0845								
DPT/C37-55		0945				0925								
DPT/C37-40		0955				0925								
FCEB06-02152006		0945				0949								
FCEB07-02152006		1250				1320								
DPT/C37-30		1005				1320								
-20		1015				1340								
-10		1025				1340								
DPT/E40-55		1415				1457								
-40		1425				1457								
-30		1435				1457								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/15/06	[signature]	2/15/06
Relinquished by: (Signature) [signature]	Date / Time 2/15/06	Received by: (Signature) [signature]	Date / Time 2/15/06

Remarks and Observations

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB Labs Inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck Metz, John Wright	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/E40-20	2/15/06	1445		✓	2/15/06	1457		W	2	✓				
DPT/E40-10		1455				1457								
DPT/644-55		1530				1650								
-40		1540				1650								
-30		1550				1650								
-20		1600				1650								
-10		1610				1700								

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/15/06	[signature]	2/15/06
Relinquished by: (Signature) [signature]	Date / Time 2/15/06	Received by: (Signature) [signature]	Date / Time 2/15/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS inc.
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
TtNUS	NAS Pensacola Site 18	
SAMPLERS	CONTACT PERSON: Chuck metz, John Wright	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-DPT/K43-55	~~2/16/06~~ ~~0715~~ TL 2/16/06	0715		✓	2/16/06	0725		W	2	✓				
-40	~~0725~~	0725				0725								
-30	2/16/06 ~~0735~~	0735				0725								
-20	2/16/06	0745				0810								
-10		0755				0810								
DPT/C43-55		0855				0945								
-40		0905				0945								
-30		0915				0945								
-20		0925				0945								
-10		0935				0945								
DPT/A37-55		1020				1040								
-40		1030				1040								
-30		1040				1040								
FCEB08-0216 2006		0950				1040								
DPT/A37-20		1050				1110								

Precleaned Containers Relinquished by: (Signature)	Date / Time 2/16/06	Received by: (Signature)	Date / Time 2/16/06
Relinquished by: (Signature)	Date / Time 2/16/06	Received by: (Signature)	Date / Time 2/16/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

MOBILE UNIT # KB 2

CLIENT NAME: TENUS

PROJECT NAME & ADDRESS: NAS Pensacola Site 18

SAMPLERS:

CONTACT PERSON: Chuck Metz

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/A37-10	2/16/05	1100		✓	2/16/05	1110		W	2	✓				
DPT/C24-55		1200				1212								
-40		1210				1212								
-30		1220				1212								
-20		1230				1242								
-10		1240				1252								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	2/16/06	[signature]	2/16/06
Relinquished by: (Signature) [signature]	Date / Time 2/16/06	Received by: (Signature) [signature]	Date / Time 2/16/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

***Telephone* (352) 367-0073**
***Fax* (352) 367-0074**
Email: info@kbmobilelabs.com

March 28, 2006

Chuck Metz
TtNUS
8640 Philips Hwy, Suite 16
Jacksonville, FL 32256

RE: NAS Pensacola Site 18, Pensacola, FL - Final Data Report
KB Labs Project # 06-85

Dear Mr. Metz:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from March 13 to 27, 2006. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form. This information will also be sent electronically.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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Gainesville, FL 32608
Phone: 352-367-0073
Fax: 352-367-0073
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From March 13 to 27, 2006, a total of 179 samples (178 waters and 1 trip blank) were analyzed for TtNUS at NAS Pensacola Site 18, Pensacola, FL. The samples were analyzed for mtbe, benzene, toluene, ethylbenzene, xylenes, naphthalene, and 1&2 methylnaphthalene.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

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Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample NASP18-GW-DPT/G51-75 was too "muddy" to analyze. Plugged injection syringe.

3. The benzene and toluene results were reversed in the Preliminary Data Report for sample NASP18-GW-DPT/F04-55.

4. Because of a reoccurring m-&p-xylene background result in the daily method blank, the reporting limit for this analyte was raised from 1.0 ug/L to 2.0 ug/L.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	03/10/06	103	95	101	99	Pass	Pass	Pass	Pass
VSTD 1	03/10/06	106	93	101	103	Pass	Pass	Pass	Pass
VSTD 5	03/10/06	102	92	100	102	Pass	Pass	Pass	Pass
VSTD 10	03/10/06	104	96	99	106	Pass	Pass	Pass	Pass
VSTD 20	03/10/06	104	95	101	108	Pass	Pass	Pass	Pass
VSTD 50	03/10/06	102	101	100	108	Pass	Pass	Pass	Pass
VSTD 100	03/11/06	100	103	103	106	Pass	Pass	Pass	Pass
BLANK	03/11/06	98	91	100	103	Pass	Pass	Pass	Pass
VSTD 20	03/13/06	95	99	97	96	Pass	Pass	Pass	Pass
RSTD 20	03/13/06	97	104	98	95	Pass	Pass	Pass	Pass
BLANK	03/13/06	96	95	98	93	Pass	Pass	Pass	Pass
BLANK	03/13/06	100	92	95	91	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-75	03/13/06	108	97	99	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-55	03/13/06	102	97	99	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-35	03/13/06	120	112	100	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-15	03/13/06	98	99	101	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-55	03/13/06	104	99	102	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/103-75	03/13/06	219	170	106	122	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/103-55	03/13/06	121	113	102	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/103-35	03/13/06	125	116	100	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/103-15	03/13/06	120	117	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/104-75	03/13/06	168	149	104	112	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/104-35	03/13/06	119	113	100	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/104-55	03/13/06	149	135	96	101	> UCL	Pass	Pass	Pass
NASP18-GW-DPT/104-15	03/13/06	136	126	98	101	Pass	Pass	Pass	Pass
NASP18-FB01-03132006	03/13/06	106	97	98	95	Pass	Pass	Pass	Pass
NASP18-GW-DPT/105-75	03/13/06	171	145	115	140	> UCL	> UCL	Pass	> UCL
NASP18-GW-DPT/105-55	03/13/06	128	121	104	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/105-15	03/13/06	148	140	101	102	> UCL	Pass	Pass	Pass
NASP18-GW-DPT/102-15MS	03/13/06	100	107	99	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-15MSD	03/13/06	108	112	100	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/102-15MSD	03/13/06	134	138	102	99	Pass	Pass	Pass	Pass
VSTD 20	03/13/06	99	96	99	97	Pass	Pass	Pass	Pass
VSTD 20	03/14/06	98	104	100	99	Pass	Pass	Pass	Pass
RSTD 20	03/14/06	101	103	101	96	Pass	Pass	Pass	Pass
BLANK	03/14/06	97	98	99	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/105-35	03/14/06	108	102	115	136	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/105-75	03/14/06	102	96	108	123	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

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Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/G51-15	03/14/06	100	102	101	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G51-35	03/14/06	105	102	101	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G51-55	03/14/06	106	99	105	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A51-15	03/14/06	96	100	115	138	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/A51-35	03/14/06	105	108	105	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A51-55	03/14/06	99	97	106	112	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A51-75	03/14/06	98	98	103	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M51-15	03/14/06	100	97	98	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M51-35	03/14/06	108	97	100	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M51-55	03/14/06	105	99	104	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M51-75	03/14/06	96	96	100	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G47-15	03/14/06	109	102	109	121	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G47-35	03/14/06	107	102	99	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G47-55	03/14/06	101	94	100	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G47-75	03/14/06	109	101	106	127	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C46-15	03/14/06	113	105	101	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C46-35	03/14/06	136	130	103	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C46-55	03/14/06	109	101	100	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C46-75	03/14/06	118	113	102	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G51-15MS	03/14/06	100	101	100	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G51-15MSD	03/14/06	95	100	102	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/G51-15MSD	03/14/06	96	101	102	100	Pass	Pass	Pass	Pass
VSTD 20	03/14/06	96	99	100	101	Pass	Pass	Pass	Pass
VSTD 20	03/15/06	92	100	100	96	Pass	Pass	Pass	Pass
RSTD 20	03/15/06	98	100	102	96	Pass	Pass	Pass	Pass
BLANK	03/15/06	94	96	99	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-15	03/15/06	92	100	101	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-35	03/15/06	100	99	102	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-55	03/15/06	101	100	104	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-75	03/15/06	96	98	102	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/107-15	03/15/06	102	98	102	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/107-35	03/15/06	98	100	106	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/107-55	03/15/06	98	102	107	114	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R41-15	03/15/06	102	100	101	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R41-35	03/15/06	101	102	104	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R41-55	03/15/06	98	100	102	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R41-75	03/15/06	98	96	105	121	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-15	03/15/06	96	95	100	101	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
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KB LABS, INC.

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Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/R27-35	03/15/06	98	98	105	113	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-55	03/15/06	99	97	102	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-75	03/15/06	100	97	99	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R15-15	03/15/06	106	103	101	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R15-35	03/15/06	102	103	99	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R15-55	03/15/06	99	94	100	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R15-75	03/15/06	98	97	98	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M19-15	03/15/06	100	103	104	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M19-35	03/15/06	133	126	104	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M19-50	03/15/06	104	105	103	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M19-75	03/15/06	103	107	101	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-15MS	03/15/06	89	100	100	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-15MSD	03/15/06	93	99	100	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/106-15MSD	03/15/06	96	100	100	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-75MS	03/15/06	93	100	99	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-75MSD	03/15/06	94	98	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/R27-75MSD	03/15/06	95	96	99	98	Pass	Pass	Pass	Pass
VSTD 20	03/15/06	98	101	97	98	Pass	Pass	Pass	Pass
VSTD 20	03/16/06	94	102	99	94	Pass	Pass	Pass	Pass
RSTD 20	03/16/06	96	99	101	95	Pass	Pass	Pass	Pass
BLANK	03/16/06	93	100	98	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F04-15	03/16/06	96	94	102	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F04-35	03/16/06	98	97	103	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F04-55	03/16/06	96	95	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F04-75	03/16/06	112	104	101	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/108-15	03/16/06	107	103	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/108-35	03/16/06	92	97	95	95	Pass	Pass	Pass	Pass
NASP18-GW-DPT/108-55	03/16/06	97	98	99	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-55	03/16/06	291	260	103	125	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/C5-35	03/16/06	107	100	102	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J07-40	03/16/06	100	94	99	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J07-30	03/16/06	104	98	105	125	Pass	Pass	Pass	Pass
NASP18-GW-DPT/J07-20	03/16/06	152	131	124	151	> UCL	Pass	> UCL	> UCL
NASP18-GW-DPT/J07-10	03/16/06	95	92	106	124	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C5-55	03/16/06	152	138	100	106	> UCL	Pass	Pass	Pass
NASP18-GW-DPT/A19-75	03/16/06	334	289	112	127	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/A19-55	03/16/06	106	104	102	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A19-35	03/16/06	120	113	105	111	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
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On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/A19-15	03/16/06	102	99	105	95	Pass	Pass	Pass	Pass
NASP18-GW-DPT/109-15	03/16/06	101	97	103	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/109-35	03/16/06	137	141	108	117	Pass	Pass	Pass	Pass
NASP18-GW-DPT/109-55	03/16/06	164	159	112	119	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/109-55MS	03/16/06	349	347	115	124	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/109-55MSD	03/16/06	340	310	114	124	> UCL	> UCL	Pass	Pass
VSTD 10	03/16/06	95	103	102	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A19-75RE	03/16/06	212	190	119	138	> UCL	> UCL	> UCL	> UCL
NASP18-GW-DPT/109-55MS	03/16/06	96	107	103	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/109-55MS	03/16/06	161	153	111	127	> UCL	> UCL	Pass	Pass
BLANK WATER	03/17/06	96	101	101	91	Pass	Pass	Pass	Pass
VSTD 10	03/17/06	98	101	101	93	Pass	Pass	Pass	Pass
RSTD 20	03/17/06	97	102	101	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/110-35	03/17/06	99	99	104	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/110-55	03/17/06	122	114	102	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/110-15	03/17/06	106	98	103	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/111-55	03/17/06	185	160	109	118	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/111-35	03/17/06	102	99	103	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/111-15	03/17/06	103	98	103	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/112-15	03/17/06	102	97	99	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/112-35	03/17/06	104	97	100	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/112-55	03/17/06	148	139	104	110	> UCL	Pass	Pass	Pass
NASP18-GW-DPT/112-15MS	03/17/06	103	99	102	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/112-15MSD	03/17/06	100	100	100	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/111-35MS	03/17/06	99	102	99	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/111-35MSD	03/17/06	100	98	100	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I25-15	03/17/06	103	99	100	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I25-35	03/17/06	196	189	101	105	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/I25-55	03/17/06	199	178	99	106	> UCL	> UCL	Pass	Pass
VSTD 20	03/17/06	102	101	100	96	Pass	Pass	Pass	Pass
VSTD 10	03/18/06	96	99	103	98	Pass	Pass	Pass	Pass
RSTD 20	03/18/06	88	103	103	88	Pass	Pass	Pass	Pass
BLANK WATER	03/18/06	94	100	105	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M39-15	03/18/06	94	103	106	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M39-35	03/18/06	103	109	107	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M39-55	03/18/06	98	104	106	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M39-75	03/18/06	96	105	104	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M43-15	03/18/06	189	191	109	112	> UCL	> UCL	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/M43-35	03/18/06	170	189	109	110	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/M43-55	03/18/06	119	118	105	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/M43-75	03/18/06	172	174	105	109	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/K47-15	03/18/06	93	100	104	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K47-35	03/18/06	130	134	104	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K47-55	03/18/06	97	101	102	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K47-75	03/18/06	111	117	104	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-15	03/18/06	122	124	101	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-35	03/18/06	120	120	101	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-55	03/18/06	436	403	106	107	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/K36-75	03/18/06	99	104	102	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-55MS	03/18/06	221	224	102	102	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/K36-55MSD	03/18/06	490	482	106	112	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/B40-15	03/18/06	137	142	107	110	Pass	> UCL	Pass	Pass
NASP18-GW-DPT/B40-35	03/18/06	125	132	106	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B40-55	03/18/06	104	108	103	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B40-75	03/18/06	162	166	108	112	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/K36-55RE	03/18/06	248	264	105	104	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/A27-55	03/18/06	250	257	112	123	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/A27-35	03/18/06	329	344	108	115	> UCL	> UCL	Pass	Pass
NASP18-GW-DPT/A27-15	03/18/06	175	189	106	99	> UCL	> UCL	Pass	Pass
VSTD 20	03/18/06	96	104	102	96	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-15MS	03/18/06	98	104	104	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K36-15MSD	03/18/06	93	104	104	95	Pass	Pass	Pass	Pass
BLANK WATER	03/19/06	100	91	104	94	Pass	Pass	Pass	Pass
VSTD 10	03/19/06	95	86	103	94	Pass	Pass	Pass	Pass
RSTD 20	03/19/06	97	88	104	95	Pass	Pass	Pass	Pass
VSTD 1	03/19/06	98	98	100	99	Pass	Pass	Pass	Pass
RSTD 20	03/19/06	100	100	102	101	Pass	Pass	Pass	Pass
VSTD 1	03/19/06	106	107	101	96	Pass	Pass	Pass	Pass
VSTD 5	03/19/06	103	101	99	97	Pass	Pass	Pass	Pass
VSTD 20	03/19/06	101	101	100	101	Pass	Pass	Pass	Pass
VSTD 50	03/19/06	97	98	100	103	Pass	Pass	Pass	Pass
VSTD 100	03/19/06	96	95	100	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A23-75	03/19/06	95	106	102	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A23-55	03/19/06	74	113	102	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A23-35	03/19/06	53	111	99	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/A23-15	03/19/06	84	106	101	104	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/A23-75RE	03/19/06	105	111	100	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I21-55	03/19/06	18	120	101	123	< LCL	Pass	Pass	Pass
NASP18-GW-DPT/I21-35	03/19/06	32	119	103	123	< LCL	Pass	Pass	Pass
NASP18-GW-DPT/I21-15	03/19/06	98	113	112	144	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/E17-55	03/19/06	21	108	109	122	< LCL	Pass	Pass	Pass
NASP18-GW-DPT/E17-35	03/19/06	104	102	99	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/E17-15	03/19/06	102	102	102	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/E17-55RE	03/19/06	105	105	98	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D29-55	03/19/06	105	110	98	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D29-35	03/19/06	101	106	99	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D29-15	03/19/06	79	113	101	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D26-55	03/19/06	78	118	99	114	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D26-35	03/19/06	87	109	100	112	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D26-55	03/19/06	83	110	102	117	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D29-55MS	03/19/06	105	106	99	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D29-55MSD	03/19/06	101	105	101	108	Pass	Pass	Pass	Pass
VSTD 20	03/19/06	100	99	100	104	Pass	Pass	Pass	Pass
BLANK WATER	03/20/06	106	106	99	96	Pass	Pass	Pass	Pass
VSTD 10	03/20/06	99	98	100	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K23-30	03/20/06	102	102	102	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K23-20	03/20/06	106	101	104	119	Pass	Pass	Pass	Pass
RSTD 20	03/20/06	100	100	97	97	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-75	03/20/06	100	108	102	114	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-55	03/20/06	73	112	100	109	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-35	03/20/06	58	112	103	122	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-15	03/20/06	58	113	96	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-15MS	03/20/06	103	108	94	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K39-15MSD	03/20/06	101	108	98	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I45-55	03/20/06	66	118	98	116	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I45-35	03/20/06	40	117	98	110	< LCL	Pass	Pass	Pass
NASP18-GW-DPT/I45-15	03/20/06	102	116	96	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/E44-55	03/20/06	74	120	105	134	Pass	Pass	Pass	> UCL
NASP18-GW-DPT/E44-35	03/20/06	109	117	96	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/E44-15	03/20/06	96	108	94	106	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F42-75	03/20/06	85	114	99	114	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F42-55	03/20/06	102	111	98	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F42-35	03/20/06	91	110	97	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F42-15	03/20/06	69	104	95	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/I41-55	03/20/06	107	109	97	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I41-35	03/20/06	104	107	98	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/I41-15	03/20/06	102	108	97	103	Pass	Pass	Pass	Pass
VSTD 20	03/20/06	104	105	96	100	Pass	Pass	Pass	Pass
BLANK WATER	03/21/06	123	110	87	100	Pass	Pass	Pass	Pass
RSTD 20	03/21/06	116	102	86	98	Pass	Pass	Pass	Pass
NASP18-FCEB02-032002006	03/21/06	126	115	86	99	Pass	Pass	Pass	Pass
VSTD 10	03/21/06	116	107	85	94	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B35-55	03/21/06	63	124	88	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B35-35	03/21/06	74	121	86	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B35-15	03/21/06	75	116	85	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B35-15MS	03/21/06	118	106	84	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B35-15MSD	03/21/06	128	113	85	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K43-55	03/21/06	133	124	90	104	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K43-35	03/21/06	126	115	86	105	Pass	Pass	Pass	Pass
NASP18-GW-DPT/K43-15	03/21/06	124	109	89	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F28-55	03/21/06	127	109	86	98	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F28-35	03/21/06	114	100	94	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/F28-15	03/21/06	112	102	92	104	Pass	Pass	Pass	Pass
VSTD 20	03/21/06	107	100	90	98	Pass	Pass	Pass	Pass
BLANK WATER	03/22/06	113	101	90	92	Pass	Pass	Pass	Pass
VSTD 10	03/22/06	110	104	90	96	Pass	Pass	Pass	Pass
RSTD 20	03/22/06	110	103	90	95	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C22-55	03/22/06	115	107	93	103	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C22-35	03/22/06	100	108	93	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C22-35MS	03/22/06	78	110	95	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C22-35MSD	03/22/06	70	104	97	113	Pass	Pass	Pass	Pass
NASP18-GW-DPT/C22-15	03/22/06	111	107	94	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/113-30	03/22/06	68	121	118	155	Pass	Pass	> UCL	> UCL
VSTD 20	03/22/06	108	98	93	95	Pass	Pass	Pass	Pass
BLANK	03/27/06	113	122	101	104	Pass	Pass	Pass	Pass
VSTD 20	03/27/06	114	131	99	108	Pass	Pass	Pass	Pass
RSTD 20	03/27/06	118	133	101	107	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-75	03/27/06	100	141	98	108	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-55	03/27/06	107	113	95	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-35	03/27/06	103	113	97	110	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-15	03/27/06	102	107	96	116	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B13-55	03/27/06	106	110	97	103	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 06-85
On-site Dates: 03/13/06-03/27/06	**Client Project Manager**: Chuck Metz	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
NASP18-GW-DPT/B13-35	03/27/06	98	101	98	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B13-15	03/27/06	101	105	98	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/TRIP BLK	03/27/06	102	102	97	100	Pass	Pass	Pass	Pass
VSTD 1	03/27/06	98	90	102	98	Pass	Pass	Pass	Pass
VSTD 5	03/27/06	111	106	100	103	Pass	Pass	Pass	Pass
VSTD 10	03/27/06	98	97	101	101	Pass	Pass	Pass	Pass
VSTD 20	03/27/06	101	100	100	99	Pass	Pass	Pass	Pass
VSTD 50	03/27/06	84	95	99	100	Pass	Pass	Pass	Pass
VSTD 100	03/27/06	108	113	97	99	Pass	Pass	Pass	Pass
BLANK	03/27/06	106	110	100	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-75 1:2	03/27/06	104	106	98	121	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-55	03/27/06	104	106	98	99	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-35	03/27/06	101	102	99	128	Pass	Pass	Pass	Pass
NASP18-GW-DPT/D10-15	03/27/06	102	103	96	111	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B13-55	03/27/06	100	102	98	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B13-35	03/27/06	98	94	99	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/B13-15	03/27/06	102	98	101	100	Pass	Pass	Pass	Pass
NASP18-GW-DPT/TRIP BLK	03/27/06	96	95	99	102	Pass	Pass	Pass	Pass
NASP18-GW-DPT/TR BLKMS	03/27/06	101	99	99	101	Pass	Pass	Pass	Pass
NASP18-GW-DPT/TR BLKMSD	03/27/06	103	101	99	98	Pass	Pass	Pass	Pass
VSTD 20	03/27/06	101	101	97	100	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4 (48% - 147%)
S2 = 1,2-Difluorobenzene (56% - 141%)
S3 = Toluene-D8 (82% - 116%)
S4 = 4-Bromofluorobenzene (65% - 133%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: NASP18-GW-DPT/102-15MS **Date of Analysis:** 3/13/2006
NASP18-GW-DPT/102-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	88	99	11	Pass	Pass	Pass
Benzene	51	149	20	85	98	14	Pass	Pass	Pass
Toluene	60	136	20	79	88	11	Pass	Pass	Pass
Ethylbenzene	60	143	20	82	91	10	Pass	Pass	Pass
m,p-Xylene	58	142	20	74	84	13	Pass	Pass	Pass
o-Xylene	57	145	20	79	88	11	Pass	Pass	Pass
Naphthalene	46	153	20	81	94	15	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	72	87	19	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	78	90	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/G51-15MS **Date of Analysis:** 3/14/2006
NASP18-GW-DPT/G51-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	71	83	15	Pass	Pass	Pass
Benzene	51	149	20	72	85	17	Pass	Pass	Pass
Toluene	60	136	20	68	85	22	Pass	Pass	> RPDL
Ethylbenzene	60	143	20	68	85	22	Pass	Pass	> RPDL
m,p-Xylene	58	142	20	64	82	25	Pass	Pass	> RPDL
o-Xylene	57	145	20	66	83	24	Pass	Pass	> RPDL
Naphthalene	46	153	20	70	88	23	Pass	Pass	> RPDL
2-Methylnaphthalene	32	170	20	71	80	12	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	75	84	11	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/106-15MS **Date of Analysis:** 3/15/2006
NASP18-GW-DPT/106-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	76	82	7	Pass	Pass	Pass
Benzene	51	149	20	84	88	6	Pass	Pass	Pass
Toluene	60	136	20	83	86	4	Pass	Pass	Pass
Ethylbenzene	60	143	20	86	93	8	Pass	Pass	Pass
m,p-Xylene	58	142	20	80	85	7	Pass	Pass	Pass
o-Xylene	57	145	20	82	88	7	Pass	Pass	Pass
Naphthalene	46	153	20	75	83	9	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	66	68	3	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	69	72	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/R27-75MS **Date of Analysis:** 3/15/2006
NASP18-GW-DPT/R27-75MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	80	79	2	Pass	Pass	Pass
Benzene	51	149	20	85	82	4	Pass	Pass	Pass
Toluene	60	136	20	84	81	3	Pass	Pass	Pass
Ethylbenzene	60	143	20	86	83	4	Pass	Pass	Pass
m,p-Xylene	58	142	20	79	77	3	Pass	Pass	Pass
o-Xylene	57	145	20	81	80	1	Pass	Pass	Pass
Naphthalene	46	153	20	85	84	2	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	82	86	5	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	87	87	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/109-55MS **Date of Analysis:** 3/16/2006
NASP18-GW-DPT/109-55MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	70	124	56	Pass	Pass	> RPDL
Benzene	51	149	20	52	103	65	Pass	Pass	> RPDL
Toluene	60	136	20	70	77	10	Pass	Pass	Pass
Ethylbenzene	60	143	20	79	110	33	Pass	Pass	> RPDL
m,p-Xylene	58	142	20	67	96	35	Pass	Pass	> RPDL
o-Xylene	57	145	20	75	102	30	Pass	Pass	> RPDL
Naphthalene	46	153	20	63	39	47	Pass	< LCL	> RPDL
2-Methylnaphthalene	32	170	20	43	24	58	Pass	< LCL	> RPDL
1-Methylnaphthalene	31	172	20	47	25	61	Pass	< LCL	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.
Matrix effect for MS/MSD. Samples very "muddy".

Samples: NASP18-GW-DPT/111-35MS **Date of Analysis:** 3/17/2006
NASP18-GW-DPT/111-35MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	37	94	87	Pass	Pass	> RPDL
Benzene	51	149	20	69	66	4	Pass	Pass	Pass
Toluene	60	136	20	74	73	1	Pass	Pass	Pass
Ethylbenzene	60	143	20	72	76	5	Pass	Pass	Pass
m,p-Xylene	58	142	20	69	69	0	Pass	Pass	Pass
o-Xylene	57	145	20	72	72	0	Pass	Pass	Pass
Naphthalene	46	153	20	82	86	4	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	91	84	7	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	94	89	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/112-15MS **Date of Analysis:** 3/17/2006
NASP18-GW-DPT/112-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	87	127	38	Pass	Pass	> RPDL
Benzene	51	149	20	65	69	5	Pass	Pass	Pass
Toluene	60	136	20	71	76	7	Pass	Pass	Pass
Ethylbenzene	60	143	20	71	78	10	Pass	Pass	Pass
m,p-Xylene	58	142	20	66	74	11	Pass	Pass	Pass
o-Xylene	57	145	20	69	75	8	Pass	Pass	Pass
Naphthalene	46	153	20	70	80	13	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	58	60	3	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	57	59	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/K36-55MS **Date of Analysis:** 3/18/2006
NASP18-GW-DPT/K36-55MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	257	574	76	> UCL	> UCL	> RPDL
Benzene	51	149	20	155	319	69	> UCL	> UCL	> RPDL
Toluene	60	136	20	72	75	4	Pass	Pass	Pass
Ethylbenzene	60	143	20	79	84	6	Pass	Pass	Pass
m,p-Xylene	58	142	20	74	78	6	Pass	Pass	Pass
o-Xylene	57	145	20	75	83	9	Pass	Pass	Pass
Naphthalene	46	153	20	58	55	6	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	35	31	10	Pass	< LCL	Pass
1-Methylnaphthalene	31	172	20	37	35	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.
Matrix effect for MS/MSD. Samples very "muddy".

Samples: NASP18-GW-DPT/K36-15MS **Date of Analysis:** 3/18/2006
NASP18-GW-DPT/K36-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	77	73	4	Pass	Pass	Pass
Benzene	51	149	20	70	69	1	Pass	Pass	Pass
Toluene	60	136	20	69	73	5	Pass	Pass	Pass
Ethylbenzene	60	143	20	69	75	8	Pass	Pass	Pass
m,p-Xylene	58	142	20	65	68	4	Pass	Pass	Pass
o-Xylene	57	145	20	66	70	6	Pass	Pass	Pass
Naphthalene	46	153	20	65	66	1	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	59	50	17	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	63	55	14	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/D29-55MS **Date of Analysis:** 3/19/2006
NASP18-GW-DPT/D29-55MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	144	131	10	Pass	Pass	Pass
Benzene	51	149	20	98	93	6	Pass	Pass	Pass
Toluene	60	136	20	93	88	5	Pass	Pass	Pass
Ethylbenzene	60	143	20	96	94	2	Pass	Pass	Pass
m,p-Xylene	58	142	20	91	88	4	Pass	Pass	Pass
o-Xylene	57	145	20	100	98	3	Pass	Pass	Pass
Naphthalene	46	153	20	82	77	7	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	49	43	12	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	50	46	9	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/K39-15MS **Date of Analysis:** 3/20/2006
NASP18-GW-DPT/K39-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	147	127	15	Pass	Pass	Pass
Benzene	51	149	20	94	103	9	Pass	Pass	Pass
Toluene	60	136	20	88	100	13	Pass	Pass	Pass
Ethylbenzene	60	143	20	88	99	11	Pass	Pass	Pass
m,p-Xylene	58	142	20	88	96	8	Pass	Pass	Pass
o-Xylene	57	145	20	92	103	11	Pass	Pass	Pass
Naphthalene	46	153	20	95	111	16	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	73	95	26	Pass	Pass	> RPDL
1-Methylnaphthalene	31	172	20	74	95	25	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/B35-15MS **Date of Analysis:** 3/21/2006
NASP18-GW-DPT/B35-15MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	133	214	47	Pass	> UCL	> RPDL
Benzene	51	149	20	126	146	14	Pass	Pass	Pass
Toluene	60	136	20	102	119	15	Pass	Pass	Pass
Ethylbenzene	60	143	20	102	115	13	Pass	Pass	Pass
m,p-Xylene	58	142	20	105	112	6	Pass	Pass	Pass
o-Xylene	57	145	20	112	121	8	Pass	Pass	Pass
Naphthalene	46	153	20	107	132	21	Pass	Pass	> RPDL
2-Methylnaphthalene	32	170	20	112	110	1	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	111	111	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: NASP18-GW-DPT/C22-35MS **Date of Analysis:** 3/22/2006
NASP18-GW-DPT/C22-35MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	144	157	9	Pass	Pass	Pass
Benzene	51	149	20	100	115	15	Pass	Pass	Pass
Toluene	60	136	20	87	104	18	Pass	Pass	Pass
Ethylbenzene	60	143	20	99	117	17	Pass	Pass	Pass
m,p-Xylene	58	142	20	91	109	18	Pass	Pass	Pass
o-Xylene	57	145	20	101	121	18	Pass	Pass	Pass
Naphthalene	46	153	20	68	71	5	Pass	Pass	Pass
2-Methylnaphthalene	32	170	20	41	39	6	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	38	38	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: NASP18-GW-DPT/TRPBLK MS **Date of Analysis:** 3/27/2006
NASP18-GW-DPT/TRPBLK MSD

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
MtBE	8	166	20	71	86	20	Pass	Pass	> RPDL
Benzene	51	149	20	76	89	16	Pass	Pass	Pass
Toluene	60	136	20	79	91	14	Pass	Pass	Pass
Ethylbenzene	60	143	20	77	85	10	Pass	Pass	Pass
m,p-Xylene	58	142	20	78	85	9	Pass	Pass	Pass
o-Xylene	57	145	20	73	82	11	Pass	Pass	Pass
Naphthalene	46	153	20	71	88	21	Pass	Pass	> RPDL
2-Methylnaphthalene	32	170	20	84	99	17	Pass	Pass	Pass
1-Methylnaphthalene	31	172	20	83	101	19	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 3/13/2006
LCS 2 3/14/2006
LCS 3 3/15/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
MtBE	15	to	162	86	80	82	Pass	Pass	Pass
Benzene	55	to	141	88	81	81	Pass	Pass	Pass
Toluene	59	to	138	84	78	80	Pass	Pass	Pass
Ethylbenzene	66	to	136	83	75	78	Pass	Pass	Pass
m,p-Xylene	57	to	141	79	70	73	Pass	Pass	Pass
o-Xylene	59	to	144	82	73	77	Pass	Pass	Pass
Naphthalene	50	to	150	85	81	83	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	102	103	96	Pass	Pass	Pass
1-Methylnaphthalene	50	to	164	99	105	97	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: TtNUS	**Driller/Sampler**: Prosonic	**Analyst:** Mark, Enoch, Glenn, Tuan
Site: NAS Pensacola Site 18	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 06-85
Onsite Dates: 03/13/06-03/27/06	**Client Project Manager:** Chuck Metz	**Matrix**: Water

Samples: LCS 4 — **Date of Analysis:** 3/16/2006
LCS 5 — 3/17/2006
LCS 6 — 3/18/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS# 4	LCS# 5	LCS# 6	LCS# 4	LCS# 5	LCS# 6
MtBE	15	to	162	119	125	70	Pass	Pass	Pass
Benzene	55	to	141	79	79	70	Pass	Pass	Pass
Toluene	59	to	138	87	78	71	Pass	Pass	Pass
Ethylbenzene	66	to	136	81	77	68	Pass	Pass	Pass
m,p-Xylene	57	to	141	75	73	64	Pass	Pass	Pass
o-Xylene	59	to	144	78	76	66	Pass	Pass	Pass
Naphthalene	50	to	150	89	95	71	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	89	100	80	Pass	Pass	Pass
1-Methylnaphthalene	50	to	164	89	102	86	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 3/19/2006
LCS 8 — 3/20/2006
LCS 9 — 3/21/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS# 7	LCS# 8	LCS# 9	LCS# 7	LCS# 8	LCS# 9
MtBE	15	to	162	72	130	136	Pass	Pass	Pass
Benzene	55	to	141	69	101	131	Pass	Pass	Pass
Toluene	59	to	138	72	90	114	Pass	Pass	Pass
Ethylbenzene	66	to	136	72	90	104	Pass	Pass	Pass
m,p-Xylene	57	to	141	72	93	105	Pass	Pass	Pass
o-Xylene	59	to	144	73	95	110	Pass	Pass	Pass
Naphthalene	50	to	150	72	104	121	Pass	Pass	Pass
2-Methylnaphthalene	53	to	159	76	119	131	Pass	Pass	Pass
1-Methylnaphthalene	50	to	164	78	116	130	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 10 — **Date of Analysis:** 3/22/2006
LCS 11 — 3/27/2006

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS# 11		LCS#10	LCS# 11	
MtBE	15	to	162	111	116		Pass	Pass	
Benzene	55	to	141	109	102		Pass	Pass	
Toluene	59	to	138	94	104		Pass	Pass	
Ethylbenzene	66	to	136	85	103		Pass	Pass	
m,p-Xylene	57	to	141	86	107		Pass	Pass	
o-Xylene	59	to	144	90	106		Pass	Pass	
Naphthalene	50	to	150	104	96		Pass	Pass	
2-Methylnaphthalene	53	to	159	119	99		Pass	Pass	
1-Methylnaphthalene	50	to	164	120	98		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/102-75	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/102-55	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/102-35	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/102-15	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/103-75	3/13/06	Water	1	< 5.0	< 2.0	**1.2**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/103-55	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/103-35	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/103-15	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/104-75	3/13/06	Water	1	< 5.0	< 1.0	**1.3**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/104-55	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/104-35	3/13/06	Water	1	< 5.0	< 1.0	**1.1**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/104-15	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-FB01-03132006	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/105-75	3/14/06	Water	1	< 5.0	< 1.0	1.3	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/105-55	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/105-35	3/14/06	Water	1	< 5.0	**1.4**	**3.9**	**1.2**	**2.4**	**1.2**	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/105-15	3/13/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G51-75	3/14/06	Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NASP18-GW-DPT/G51-55	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G51-35	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G51-15	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A51-75	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A51-55	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A51-35	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A51-15	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M51-75	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M51-55	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M51-35	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M51-15	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G47-75	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G47-55	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/G47-35	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/G47-15	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C46-75	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C46-55	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C46-35	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C46-15	3/14/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/106-75	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/106-55	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/106-30	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/106-15	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/107-55	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/107-35	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/107-15	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R41-75	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R41-55	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R41-35	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R41-15	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

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NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/R27-75	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R27-55	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R27-35	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R27-15	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R15-75	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R15-55	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R15-35	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/R15-15	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M19-75	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.9**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M19-50	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M19-35	3/15/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.8**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M19-15	3/15/06	Water	1	< 5.0	**1.4**	< 1.0	**1.5**	**11.0**	**1.9**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F04-75	3/16/06	Water	1	< 5.0	<1.0	**1.0**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F04-55	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F04-35	3/16/06	Water	1	< 5.0	< 1.0	**1.5**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F04-15	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/108-55	3/16/06	Water	1	< 5.0	**2.5**	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/108-35	3/16/06	Water	1	< 5.0	**14.7**	**1.4**	< 1.0	**15.4**	**4.7**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/108-15	3/16/06	Water	1	< 5.0	**10.4**	**1.4**	< 1.0	**12.3**	**3.5**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C5-55	3/16/06	Water	1	< 5.0	**1.1**	**1.2**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C5-35	3/16/06	Water	1	< 5.0	< 1.0	**1.0**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/J07-40	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/J07-30	3/16/06	Water	1	< 5.0	< 1.0	**1.1**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/J07-20	3/16/06	Water	1	< 5.0	**1.4**	**1.9**	**1.0**	**2.3**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/J07-10	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A19-75	3/16/06	Water	1	< 5.0	**2.2**	**2.0**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A19-55	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A19-35	3/16/06	Water	1	< 5.0	< 1.0	**1.1**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A19-15	3/16/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/109-15	3/16/06	Water	1	< 5.0	**1.4**	< 1.0	< 1.0	**3.6**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/109-35	3/16/06	Water	1	< 5.0	**31.9**	**1.7**	**28.2**	**35.6**	**7.9**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/109-55	3/16/06	Water	1	< 5.0	**10.3**	**1.0**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/110-35	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**4.1**	**1.3**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/110-55	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/110-15	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/111-55	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/111-35	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/111-15	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/112-15	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/112-35	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/112-55	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I25-15	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**3.0**	**1.4**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I25-35	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I25-55	3/17/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M39-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M39-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M39-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M39-75	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/M43-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M43-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M43-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/M43-75	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K47-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K47-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K47-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K47-75	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K36-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K36-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K36-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K36-75	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B40-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B40-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B40-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B40-75	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/A27-55	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A27-35	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A27-15	3/18/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A23-75	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A23-55	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A23-35	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/A23-15	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I21-55	3/19/06	Water	1	< 5.0	< 1.0	**1.1**	**2.1**	**11.8**	**6.3**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I21-35	3/19/06	Water	1	< 5.0	< 1.0	**1.5**	**1.7**	**8.4**	**4.8**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I21-15	3/19/06	Water	1	< 5.0	**2.0**	**2.1**	**10.5**	**52.1**	**28.5**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E17-55	3/19/06	Water	1, 20	< 5.0	**3.8**	**6.7**	**35.7**	**160**	**81**	**52.4**	**130**	120.0
NASP18-GW-DPT/E17-35	3/19/06	Water	20	< 100	< 20	< 20	**23**	**170**	**86**	< 100	**200**	**190**
NASP18-GW-DPT/E17-15	3/19/06	Water	1	< 5.0	< 1.0	**1.4**	**3.5**	**26.8**	**13.0**	**5.4**	**9.8**	**11.8**
NASP18-GW-DPT/D29-55	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/D29-35	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	**5.9**	**6.7**
NASP18-GW-DPT/D29-15	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.7**	**1.2**	< 5.0	**7.2**	**7.7**

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/D26-55	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/D26-35	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/D26-15	3/19/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K23-30	3/20/06	Water	1	< 5.0	< 1.0	**1.0**	< 1.0	**4.9**	**1.0**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K23-20	3/20/06	Water	1	< 5.0	< 1.0	**1.0**	< 1.0	**6.7**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K39-75	3/20/06	Water	1	< 5.0	< 1.0	**1.2**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K39-55	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K39-35	3/20/06	Water	1	< 5.0	< 1.0	**1.1**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/K39-15	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I45-55	3/20/06	Water	1	< 5.0	< 1.0	**1.5**	**1.0**	**3.7**	**1.1**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I45-35	3/20/06	Water	1	< 5.0	< 1.0	**1.0**	< 1.0	**2.6**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I45-15	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E44-55	3/20/06	Water	1	< 5.0	< 1.0	**1.6**	< 1.0	< 2.0	**1.0**	< 5.0	< 5.0	**5.5**
NASP18-GW-DPT/E44-35	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/E44-15	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F42-75	3/20/06	Water	1	< 5.0	< 1.0	**1.2**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F42-55	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F42-35	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/F42-15	3/20/06	Water	1	< 5.0	< 1.0	**1.0**	**13.9**	**163**	**41.8**	**17.8**	**10.6**	**9.2**
NASP18-GW-DPT/I41-55	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**5.4**	**1.5**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I41-35	3/20/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/I41-15	3/20/06	Water	1	< 5.0	< 1.0	**1.3**	**3.9**	**29.6**	**14.3**	**6.4**	**7.5**	**7.1**
NASP18-FCEB02-032002006	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B35-55	3/21/06	Water	1	< 5.0	**1.3**	**1.7**	< 1.0	**2.2**	**1.0**	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/B35-35	3/21/06	Water	1	< 5.0	< 1.0	**1.1**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/B35-15	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K43-55	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	**2.2**	**27.0**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K43-35	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	**1.9**	**25.1**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/K43-15	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	**7.0**	**88.4**	**1.0**	**21.7**	**15.0**	**15.3**
NASP18-GW-DPT/F28-55	3/21/06	Water	10	< 50	< 10	< 10	< 10	**47**	**17**	< 50	**72**	**59**
NASP18-GW-DPT/F28-35	3/21/06	Water	10	< 50	< 10	< 10	< 10	**85**	**34**	< 50	**100**	**80**
NASP18-GW-DPT/F28-15	3/21/06	Water	1	< 5.0	< 1.0	< 1.0	**1.3**	**17.4**	**7.3**	**6.2**	**11.5**	**12.2**
NASP18-GW-DPT/C22-55	3/22/06	Water	1	< 5.0	< 1.0	**1.0**	< 1.0	**2.1**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C22-35	3/22/06	Water	1	< 5.0	< 1.0	**1.3**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/C22-15	3/22/06	Water	1	< 5.0	< 1.0	**1.3**	**1.0**	**2.2**	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/113-30	3/22/06	Water	1	< 5.0	**2.7**	**4.5**	**3.2**	**6.3**	**2.9**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/D10-75	3/25/06	Water	1	<5.0	**9.8**	**3.5**	**2.4**	**23.8**	**5.5**	**21.8**	**76.4**	**65.1**
NASP18-GW-DPT/D10-55	3/25/06	Water	1	<5.0	**1.5**	<1.0	<1.0	**6.6**	**1.5**	**6.6**	**28.8**	**24.8**
NASP18-GW-DPT/D10-35	3/25/06	Water	1	<5.0	**25.3**	**1.4**	**1.2**	**9.4**	**2.0**	**9.9**	**45.3**	**37.5**
NASP18-GW-DPT/D10-15	3/25/06	Water	1	<5.0	**1.7**	<1.0	<1.0	**12.0**	**5.0**	<5.0	**12.2**	**10.1**
NASP18-GW-DPT/B13-55	3/25/06	Water	1	<5.0	**1.7**	**1.2**	**2.5**	**16.6**	**6.0**	<5.0	<5.0	<5.0

Reporting units for waters are ug/L and for soils are mg/Kg.

KB LABS, INC.

Final Data Report

Project Number 06-85

NAS Pensacola Site 18

Pensacola, FL

TtNUS

Well ID	Analysis Date	Matrix	Dilution Factor	MtBE	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Naphthalene	2-Methylnaphthalene	1-Methylnaphthalene
NASP18-GW-DPT/B13-35	3/25/06	Water	1	<5.0	**1.8**	**1.3**	**2.1**	**13.5**	**5.0**	<5.0	<5.0	<5.0
NASP18-GW-DPT/B13-15	3/25/06	Water	1	<5.0	<1.0	<1.0	<1.0	< 2.0	<1.0	<5.0	<5.0	<5.0
NASP18-GW-DPT/D10 - 75	03/27/06	Water	1	< 5.0	**9.8**	**3.5**	**2.4**	**23.8**	**5.5**	**21.8**	**76.4**	**65.1**
NASP18-GW-DPT/D10 - 55	03/27/06	Water	1	**< 5.0**	**1.5**	**< 1.0**	**< 1.0**	**6.6**	**1.5**	**6.6**	**28.8**	**24.8**
NASP18-GW-DPT/D10 - 35	03/27/06	Water	1	**< 5.0**	**25.3**	**1.4**	**1.2**	**9.4**	**2.0**	**9.9**	**45.3**	**37.5**
NASP18-GW-DPT/D10 - 15	03/27/06	Water	1	**< 5.0**	**1.7**	**< 1.0**	< 1.0	**12.0**	**5.0**	< 5.0	**12.2**	**10.1**
NASP18-GW-DPT/B13 - 55	03/27/06	Water	1	**< 5.0**	**1.7**	**1.2**	**2.5**	**16.6**	**6.0**	**< 5.0**	< 5.0	< 5.0
NASP18-GW-DPT/B13 - 35	03/27/06	Water	1	**< 5.0**	**1.8**	**1.3**	**2.1**	**13.5**	**5.0**	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/B13 - 15	03/27/06	Water	1	**< 5.0**	**< 1.0**	**< 1.0**	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0
NASP18-GW-DPT/Trip Blank	03/27/06	Water	1	**< 5.0**	**< 1.1**	**< 1.0**	**< 1.0**	< 2.0	< 1.0	< 5.0	< 5.0	< 5.0

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	NAS Pensacola	
SAMPLERS: TT	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/102-75	3/13/06	0900			3/13/06	0915		GW	2	✓				
55		0915				0940								
35		0925				0940								
15		0935				0950								
NASP18-GW-DPT/103-75		1035				~~1035~~ 1155								
55		1045				1210								
35		1055				1220								
~~104~~ 15		1105				1230								
NASP18-GW-DPT/104-75		1335				1350								
55		1345				1400								
35		1400				1430								
15		1415				1430								
FB01-03132006		1450				1520								
NASP18-GW-DPT/105-75		1530				1615								
55		1545				1615								

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)* [signature]	3/13/06	**Remarks and Observations**
Relinquished by: *(Signature)* [signature]	3/13/06	Received by: *(Signature)* [signature]		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	NAS Pensacola	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Chuck Metz	

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASPIB-GW-DPT/105-35	3/13/06	1555			3/13/06	1630		GW	2	✓				
15	"	1605			"	1630								
NASPIB-GW-DPT/G51-25	3/14/06	0810			3/14/06	0810								
55		0820				0810								
35		0830				0840								
15		0840				0840								
NASPIB-GW-DPT/A51-25		0940				1000								
55		0950				1000								
35		1000				1000								
15		1010				1015								
NASPIB-GW-DPT/M51-25		1125				1145								
55		1135				1145								
35		1145				1155								
15		1155				1115								
NASPIB-GW-DPT/G47-25		1250				1325								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
		[signature]	3/14/06	
Relinquished by: *(Signature)* CM	Date / Time 3/14/06	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

3

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	NAS Pensacola	
SAMPLERS: TT	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/C47-55	3/14/06	1300			3/14/06	1325								
35		1310				1325								
15		1320				1325								
NASP18-GW-DPT/C46-75		1515				1610								
55		1525				1610								
35		1535				1610								
15		1545				1600								
NASP18-GW-DPT/106-75		1645				1700								
55		1655				1700								
30		1705			3/15/06	715								
15		1715				715								
NASP18-GW-DPT/107-55		0815				0945								
35		0836				0945								
15		0900				0945								
NASP18-GW-DPT/C41-75		1020				1026								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 3/15/06	Remarks and Observations
Relinquished by: *(Signature)* CM	Date / Time 3/15/06	Received by: *(Signature)*	Date / Time	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB2

4

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	NAS Pensacola	
SAMPLERS: TT	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NAS18-GW-DPT/541-55	3/15/06	1030			3/15/06	1100		GW	2	✓				
35		1040				1100								
15		1050				1100								
NAS18-GW-DPT/627-75		1150				1220								
55		1200				1220								
35		1210				1220								
15		1220				1228								
NAS18-GW-DPT/745-75		1255				1330								
55		1305				1330								
35		1315				1330								
15		1325				1330								
NAS18-GW-DPT/819-75		1605				1620								
50		1615				1620								
35		1620				1630								
15		1628				1630								

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/15/06
Relinquished by: *(Signature)* CM	3/15/06	Received by: *(Signature)*	

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB-2

5

CLIENT NAME: TTNUS
PROJECT NAME & ADDRESS: NAS Pensacola
SAMPLERS: TT
CONTACT PERSON: Chuck Metz
BATCH # (Lab Use Only):

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NAS818-GW-DPT/F04-75	3/15/06	1720		✓	3/16/06	0700		GW	2	✓				
55		1730				0700								
35		1740				0700								
15		1750				0700								
1108-55	3/16/06	0815				0820								
35						0850								
15						0850								
1C5-55*						0935								
C5-35*						0940								
1507-40		1020				1035								
30		1030				1035								
20		1040				1115								
10		1050				1115								
1A19-75		1505				1527								
-55		1515				1527								

	Date / Time		Date / Time
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	
Relinquished by: *(Signature)* CM	3/15/06	Received by: *(Signature)*	

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB2

6

CLIENT NAME	PROJECT NAME & ADDRESS	
T+Nus	06-88 NAS PENSACOLA SITE 18	
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/A19-35	031605	1525		✓	031605	1527		W	2	✓				
-15		1535				1551								
109 -15		1700				1717								
-35		1650				1717								
-55		1640				1717								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* CM	Date / Time 3/16/06	Received by: *(Signature)* Enoch	Date / Time 03/16/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

7

CLIENT NAME	PROJECT NAME & ADDRESS
TtNus	06-88 NAS PENSACOLA SITE 18 FL
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ
	BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-APT														
110-35	031706	0820		✓	031706	0847		W	2	✓				
-55		0810				0849								
-15		0800				0855								
111-55		0920				0952								
-35		0930				0952								
-15		0940				0952								
112-15		1110				1154								
-35		1120				1154								
-55		1130				1154								
I25-15		1518				1530								
-35		1508				1530								
-55		1453				1530								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature) CM	Date / Time 3/17/06	Received by: (Signature) Enoch	Date / Time 031706	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

8

CLIENT NAME	PROJECT NAME & ADDRESS	
TT Nus	06-88 NAS PENSACOLA SITE 18 FL	
SAMPLERS: Prosonic	CONTACT PERSON: Chuck Metz	BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-DPT/ M39-15	031806	0843		✓	031806	0905		W	2	✓				
-35		0834				0905								
-55		0820				0905								
-75		0812				0905								
M43-15		1000				1009								
-35		0954				1009								
-55		0943				1009								
-75		0936				1009								
K47-15		1134				1148								
-35		1122				1148								
-55		1103				1148								
-75		1047				1148								
K36-15		1338				1350								
-35		1327				1350								
-55		1317				1350								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature) CM	Date / Time 3/18/06	Received by: (Signature) Enoch	Date / Time 03/18/06	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

9

CLIENT NAME	PROJECT NAME & ADDRESS
TTNUS	06-88 NAS PENSACOLA SITE 18, FL
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ
	BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT
NASP18-GW-MPT/														
K36-75	031806	1302		✓	031806	1350		W	2	✓				
B40-15		1554				1603								
-35		1536				1603								
-55		1528				1603								
-75		1513				1603								
A27-55		1640				1654								
-35		1648				1654								
-15		1700				1705								

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature) CM	Date / Time 3/18/06	Received by: (Signature) Crosch	Date / Time 031806	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

10

CLIENT NAME	PROJECT NAME & ADDRESS	
T+Nus	06-88 NAS PENSACOLA SITE 18 FL	
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
WASP18-GW-DPT/														
A23-75	031906	0940		✓	031906	0958		W	2	✓				
-55		0950				1021								
-35		1000				1021								
-15		1010				1028								
I21-55		1110				1143								
-35		1120				1143								
-15		1130				1151								
E17-55		1300				1346								
-35		1315				1408								
-15		1325				1408								
D29-55		1445				1519								
-35		1458				1519								
-15		1511				1519								
D26-55		1630				1637								
-35		1640				1656								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* cm	Date / Time 3/19/06	Received by: *(Signature)* Enoch	Date / Time 03/19/06

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS INC
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

11

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	NAS 06-88 PENSACOLA SITE 18, FL	
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-APT/ D26-15	031906	1650		✓	031906	1656		W	2	✓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* CM	Date / Time 3/19/06	Received by: *(Signature)* Enoch	Date / Time 031906

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

12

CLIENT NAME: TTNUS

PROJECT NAME & ADDRESS: 06-88 NAS PENSACOLA SITE 18, FL

SAMPLERS: PROSONIC

CONTACT PERSON: CHUCK METZ

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-GPT/														
K23-30	031906	1740		✓	032006	0710		W	2	✓				
-20	031906	1750			032006	0710								
K39-75	032006	0846				0912								
K39-55		0900				0912								
-35		0915				0936								
-15		0925				0936								
I45-55		1020				1109								
-35		1030				1109								
-15		1040				1109								
E44-55		1140				1251								
-35		1150				1251								
-15		1200				1251								
F42-75		1425				1437								
-55		1435				1453								
-35		1445				1509								

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature) CM	Date / Time 3/20/06	Received by: (Signature) Enoch	Date / Time 032006

Remarks and Observations

Matrix Types: S Soil; SW Surface Water; GW Ground Water; SG Soil Gas

KB LAB
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB2

13

CLIENT NAME	PROJECT NAME & ADDRESS
TTNUS	06-88 NAS PENSACOLA SITE 18, FL
SAMPLERS	**CONTACT PERSON**
PROSONIC	CHUCK METZ

BATCH # **(Lab Use Only)**

SAMPLE FIELD ID.\NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-GW-LPT/														
F42-15	032006	1455		✓	032006	1509		W	2	✓				
I41-55		1615				1650								
-35		1630				1650								
-15		1645				1650								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* CM	Date / Time 3/20/06	Received by: *(Signature)* Enoch	Date / Time 032006

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB2

14

CLIENT NAME	PROJECT NAME & ADDRESS	
TTNUS	06-88 NAS PENSACOLA SITE 18, FL	
SAMPLERS: PROSONIC	CONTACT PERSON: CHUCK METZ	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
NASP18-FLEB02-032006	032006	1700		✓	032106	0713		W	2	✓				
NASP18-GW-DPT/B35-55	032106	0820				0846								
-35		0835				0846								
-15		0850				0855								
K43-55		1510				1529								
-35		1520				1529								
-15		1535				1558								
F28-55		1710				1727								
-35		1725				1733								
-15		1740				1742								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* cm	Date / Time 3/21/06	Received by: *(Signature)* Enoch	Date / Time 032106

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB 2

15

CLIENT NAME	PROJECT NAME & ADDRESS
TtNus	06-88 NAS Pensacola Site 18, FL
SAMPLERS: Prosonic	CONTACT PERSON: Chuck Metz
	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT
WASP18-GW-4PT/C22-55	022206	~~0800~~ 0800		✓	022206	0807		W	2	✓				
-35		0810				0816								
-15		0820				0946								
113-30		0910				0946								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)* CM	Date / Time 3/22/06	Received by: *(Signature)* Enoch	Date / Time 022206

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3202 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00140	NAS Pensacola			KB Labs
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
CM		Chuck Metz	904-730-4669 x220	6871 Southwest Archer Rd
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Gainesville, FL

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

CONTAINER TYPE PLASTIC (P) or GLASS (G): G

PRESERVATIVE USED: —

TYPE OF ANALYSIS: 8260 (VOC)

DATE YEAR 2006	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	8260 (VOC)							COMMENTS
3-22	1642	NASP18-GW-DPT/DIO-75	✓			GW	G	2	✓							Cool to 4°C
	1658	DIO-55	✓						✓							
	1710	DIO-35	✓						✓							1 cooler
	1720	DIO-15	✓						✓							
	1305	NASP18-GW-DPT/B13-55	✓						✓							
	1315	B13-35	✓						✓							
	1330	B13-15	✓						✓							
		Trip Blank							✓							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Chuck Metz	3-23-06		1. RECEIVED BY Christine Priest	3/24/06	10.25
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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

4/02R
FORM NO. TtNUS-001

APPENDIX D

FIXED-BASED LABORATORY ANALYTICAL REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**MAY 25, 2006**
FROM:	**ETHAN G. LEE**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA**
NAS PENSACOLA – CTO 005
SAMPLE DELIVERY GROUP (SDG) – 0604131

SAMPLES: 20/AQUEOUS/

PEN-SITE18-114-15-0406	PEN-SITE18-114-35-0406
PEN-SITE18-B07-15-0406	PEN-SITE18-B07-35-0406
PEN-SITE18-B07-55-0406	PEN-SITE18-DPTC43-15-040
PEN-SITE18-DPTC43-35-040	PEN-SITE18-DPTC43-55-040
PEN-SITE18-G07-15-0406	PEN-SITE18-G07-35-0406
PEN-SITE18-G07-55-0406	PEN-SITE18-G07-75-0406
PEN-SITE18-G14-15-0406	PEN-SITE18-G14-35-0406
PEN-SITE18-G14-55-0406	PEN-SITE18-G14-75-0406
PEN-SITE18-G44-15-0406	PEN-SITE18-G44-35-0406
PEN-SITE18-G44-55-0406	TRIP BLANK

Overview

The sample set for NAS Pensacola, CTO 005, SDG 0604131, consists of nineteen (19) aqueous environmental samples and one (1) trip blank.

The samples were analyzed for the volatile organic compounds (VOCs) benzene, ethylbenzene, methyl tert-butyl ether (MTBE), naphthalene, toluene, and total xylenes. The samples were collected by Tetra Tech NUS on April 6, 2006 and analyzed by Empirical Laboratories, LLC. VOC analyses were conducted using SW-846 method 8260B.

These data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times/Preservation
* • Initial/Continuing Calibrations
* • Laboratory Method Blank Analyses
• Detection Limits

* - All quality control criteria were met for this parameter.

Detection Limits

Results for VOCs that were between the reporting limit (RL) and the method detection limit (MDL) were qualified as estimated (J) due to uncertainty near the detection limit.

Sample Preservation

Samples PEN-SITE18-G14-75-0406, PEN-SITE18-G07-75-0406, and PEN-SITE18-G07-35-0406 were received by the laboratory with insufficient volume for analysis, so they were diluted 2X. It is likely that much of the sample leaked and sample vials contained significant headspace. Positive results reported for benzene, ethylbenzene, naphthalene, toluene, and total xylenes were qualified as estimated (J) in these samples. Nondetected results reported for MTBE were qualified as rejected (UR) in these samples.

Notes

Sample PEN-SITE18-114-55-0406 was received by the laboratory with insufficient volume for analysis; therefore, this sample was not analyzed.

According to Marcia McGinnity of Empirical Laboratories, many of the samples in this SDG were received by the laboratory with headspace. This could be due to sample freezing or a reaction with the sample preservative. The septum in several vials was pushed up, causing leakage. No qualification action was taken on this basis because there was sufficient sample volume for analyses. This is noted for completeness.

Executive Summary

Laboratory Performance: No laboratory quality control issues were noted for this SDG.

Other Factors Affecting Data Quality: Several analytes were qualified due to uncertainty near the detection limit. The analytes in samples PEN-SITE18-G14-75-0406, PEN-SITE18-G07-75-0406, and PEN-SITE18-G07-35-0406 were qualified due to preservation noncompliance.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (Oct. 1999), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results

2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-114-15-0406
samp_date	4/6/2006
lab_id	0604131-21
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.25	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.33	I	J	P
TOTAL XYLENES	1	U	U	

nsample	PEN-SITE18-114-35-0406
samp_date	4/6/2006
lab_id	0604131-20
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.44	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.9	I	J	P
TOTAL XYLENES	1	U	U	

nsample	PEN-SITE18-B07-15-0406
samp_date	4/6/2006
lab_id	0604131-18
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.28	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.45	I	J	P
TOTAL XYLENES	1	U	U	

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-B07-35-0406	nsample	PEN-SITE18-B07-55-0406	nsample	PEN-SITE18-DPTC43-15-040
samp_date	4/6/2006	samp_date	4/6/2006	samp_date	4/6/2006
lab_id	0604131-17	lab_id	0604131-16	lab_id	0604131-03
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.38	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.56	I	J	P
TOTAL XYLENES	1	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.46	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.74	I	J	P
TOTAL XYLENES	1	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.16	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.36	I	J	P
TOTAL XYLENES	1	U	U	

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-DPTC43-35-040
samp_date	4/6/2006
lab_id	0604131-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.37	I	J	P
TOTAL XYLENES	1	U	U	

nsample	PEN-SITE18-DPTC43-55-040
samp_date	4/6/2006
lab_id	0604131-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.22	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	0.61	I	J	P
TOTAL XYLENES	1	U	U	

nsample	PEN-SITE18-G07-15-0406
samp_date	4/6/2006
lab_id	0604131-15
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	7.3			
ETHYLBENZENE	0.81	I	J	P
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	8.9			
TOLUENE	0.75	I	J	P
TOTAL XYLENES	17			

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-G07-35-0406
samp_date	4/6/2006
lab_id	0604131-14
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	2.2		J	M
ETHYLBENZENE	1.4	I	J	MP
METHYL TERT-BUTYL ETHER	2	U	UR	M
NAPHTHALENE	3.9		J	M
TOLUENE	1.2	I	J	MP
TOTAL XYLENES	12		J	M

nsample	PEN-SITE18-G07-55-0406
samp_date	4/6/2006
lab_id	0604131-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.93	I	J	P
ETHYLBENZENE	0.8	I	J	P
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1.7			
TOLUENE	0.46	I	J	P
TOTAL XYLENES	7.2			

nsample	PEN-SITE18-G07-75-0406
samp_date	4/6/2006
lab_id	0604131-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	4.4		J	M
ETHYLBENZENE	2.1		J	M
METHYL TERT-BUTYL ETHER	2	U	UR	M
NAPHTHALENE	6.9		J	M
TOLUENE	1.6	I	J	MP
TOTAL XYLENES	18		J	M

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-G14-15-0406
samp_date	4/6/2006
lab_id	0604131-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	13			
ETHYLBENZENE	30			
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	34			
TOLUENE	1.6			
TOTAL XYLENES	130			

nsample	PEN-SITE18-G14-35-0406
samp_date	4/6/2006
lab_id	0604131-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	7.7			
ETHYLBENZENE	9.2			
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	24			
TOLUENE	2			
TOTAL XYLENES	140			

nsample	PEN-SITE18-G14-55-0406
samp_date	4/6/2006
lab_id	0604131-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	4			
ETHYLBENZENE	28			
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	60			
TOLUENE	3.1			
TOTAL XYLENES	260			

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-G14-75-0406
samp_date	4/6/2006
lab_id	0604131-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	3.3		J	M
ETHYLBENZENE	13		J	M
METHYL TERT-BUTYL ETHER	2	U	UR	M
NAPHTHALENE	38		J	M
TOLUENE	2.7		J	M
TOTAL XYLENES	120		J	M

nsample	PEN-SITE18-G44-15-0406
samp_date	4/6/2006
lab_id	0604131-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	6			
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	3			
TOLUENE	0.47	I	J	P
TOTAL XYLENES	39			

nsample	PEN-SITE18-G44-35-0406
samp_date	4/6/2006
lab_id	0604131-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	1	U	U	

PROJ_NO: 00140

SDG: 0604131 MEDIA: WATER DATA FRACTION: OV

nsample	PEN-SITE18-G44-55-0406	nsample	Trip Blank
samp_date	4/6/2006	samp_date	4/6/2006
lab_id	0604131-04	lab_id	0604131-10
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	0.34	I	J	P
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	1.1			
TOTAL XYLENES	1.4			

Parameter	Result	Lab Qual	Val Qual	Qual Code
BENZENE	1	U	U	
ETHYLBENZENE	1	U	U	
METHYL TERT-BUTYL ETHER	1	U	U	
NAPHTHALENE	1	U	U	
TOLUENE	1	U	U	
TOTAL XYLENES	1	U	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 17, 2006**
FROM:	**ERIN M. FAUST**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC AND ORGANIC DATA VALIDATION – TCL VOCs, 1,2-DIBROMOETHANE, PAHs, TRPH, IRON, LEAD & MANGANESE**
CTO- 005 NAS PENSACOLA
SAMPLE DELIVERY GROUP (SDG) – NASP18W001

SAMPLES: 21/Groundwater/

NASP18-GI29-0406	NASP18-GS11-0406	NASP18-GS12-0406
NASP18-GS13-0406	NASP18-GS17-0406	NASP18-GS21-0406
NASP18-GS28-0406	NASP18-MW32S-0406	NASP18-MW33I-0406
NASP18-MW34D-0406	NASP18-MW35I-0406	NASP18-MW36S-0406
NASP18-MW37S-0406	NASP18-MW46I-0406	NASP18-MW47I-0406
NASP18-MW48I-0406	NASP18-MW52S-0406	NASP18-MW53I-0406
NASP18-MW54I-0406	NASP18-MW56S-0406	NASP18-MW57I-0406

Overview

The sample set for CTO 005, NAS Pensacola, SDG NASP18W001 consists of twenty-one (21) groundwater environmental samples.

All samples were analyzed for target compound list (TCL) volatile organic compounds (VOCs), 1,2-dibromoethane (EDB), polycyclic aromatic hydrocarbons (PAHs), total recoverable petroleum hydrocarbons (TRPH), total and dissolved iron and manganese and total lead. The samples were collected by Tetra Tech NUS on April 25 and 27, 2006 and analyzed by Empirical Laboratories. PEL laboratories performed analysis for EDB. All analyses were conducted in accordance with Department of Defense (DoD) Quality Assurance/Quality Control (QA/QC) criteria. Analyses for VOCs, EDB, PAHs and metals were conducted using SW-846 methods 8260B, 8011, 8270C and 6010B, respectively. Analyses for TRPH were conducted using the Florida-PRO method.

The data contained in this SDG were validated with regard to the following parameters:

- * Data Completeness
- * Holding Times
- * Calibration Results
- Blank Results
- Matrix Spike/Matrix Spike Duplicate Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

Blank Results

The following analytes were detected in the laboratory method blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Blank Action Level
Methylene chloride	1.0 µg/L	10 µg/L
Chloromethane	0.38 µg/L	1.9 µg/L
Naphthalene	0.053 µg/L	0.265 µg/L
TRPH	0.16 µg/L	0.80 µg/L

An action level of five times (ten times for methylene chloride) the maximum concentration was used to evaluate the sample data for laboratory blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when applying the blank action levels. Positive results, less than the blank action level, reported for all of the above analytes except chloromethane were qualified "U" as a result of laboratory blank contamination. No validation action was necessary for chloromethane because all results for chloromethane were reported by the laboratory as nondetected.

Matrix Spike/Matrix Spike Duplicate Results

The matrix spike (MS) and matrix spike duplicate (MSD) percent recoveries for 2-chloroethyl vinyl ether in samples NASP18-MW34D-0406 and NASP18-MW56S-0406 were < 10% quality control limit. The nondetected results reported for 2-chloroethyl vinyl ether in these two samples were qualified as unusable, "UR".

Detection Limits

Positive results between the Method Detection Limit (MDL) and the Reporting Limit (RL) reported for several VOCs and PAHs were qualified as estimated, "J", due to uncertainty near the detection limit.

Notes

All VOCs were reported from a 5X dilution in sample NASP18-GS28-0406. 1-Methylnaphthalene, 2-methylnaphthalene and naphthalene were reported from 10X dilutions in samples NASP18-GS17-0406 and NASP18-GS28-0406. TRPH was reported from a 2X dilution in sample NASP18-GS28-0406.

No surrogate was added to the method blank for the initial analyses of 1,2-dibromoethane. The laboratory re-extracted the samples 2-5 days outside of the 14-day holding time. Because all of the surrogate recoveries in the samples were within acceptable quality control limits and all results for 1,2-dibromoethane were reported by the laboratory as nondetected in both the initial and re-analyses, the initial results were reported and data were not qualified.

Executive Summary

Laboratory Performance Issues: Several analytes were detected in the laboratory method blanks.

Other Factors Affecting Data Quality: 2-Chloroethyl vinyl ether was qualified due to severe MS noncompliance in two samples. Positive results between the MDL and the RL reported for several analytes were qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), the EPA Functional Guidelines for Inorganic Data Validation (July, 2002), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Erin M. Faust
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI29-0406
samp_date	4/27/2006
lab_id	0604370-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GI29-0406
samp_date	4/27/2006
lab_id	0604370-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS11-0406
samp_date	4/27/2006
lab_id	0604370-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS11-0406
samp_date	4/27/2006
lab_id	0604370-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS12-0406
samp_date	4/25/2006
lab_id	0604370-16
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS12-0406
samp_date	4/25/2006
lab_id	0604370-16
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS13-0406
samp_date	4/25/2006
lab_id	0604370-15
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS13-0406
samp_date	4/25/2006
lab_id	0604370-15
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS17-0406
samp_date	4/27/2006
lab_id	0604370-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	9.3			
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	20			
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.38	I	J	P
TOTAL XYLENES	9.2			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS17-0406
samp_date	4/27/2006
lab_id	0604370-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS21-0406
samp_date	4/25/2006
lab_id	0604370-17
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS21-0406
samp_date	4/25/2006
lab_id	0604370-17
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS28-0406
samp_date	4/27/2006
lab_id	0604370-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.6	U	U	
1,1,2,2-TETRACHLOROETHANE	0.65	U	U	
1,1,2-TRICHLOROETHANE	0.5	U	U	
1,1-DICHLOROETHANE	0.55	U	U	
1,1-DICHLOROETHENE	0.65	U	U	
1,2,4-TRICHLOROBENZENE	2.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.55	U	U	
1,2-DICHLOROETHANE	0.65	U	U	
1,2-DICHLOROPROPANE	0.55	U	U	
1,3-DICHLOROBENZENE	1.9	U	U	
1,4-DICHLOROBENZENE	0.5	U	U	
2-CHLOROETHYL VINYL ETHER	1.2	U	U	
BENZENE	4.4	I	J	P
BROMODICHLOROMETHANE	0.6	U	U	
BROMOFORM	0.65	U	U	
BROMOMETHANE	0.65	U	U	
CARBON TETRACHLORIDE	0.55	U	U	
CHLOROBENZENE	0.5	U	U	
CHLORODIBROMOMETHANE	0.7	U	U	
CHLOROETHANE	0.7	U	U	
CHLOROFORM	0.65	U	U	
CHLOROMETHANE	1.4	U	U	
CIS-1,2-DICHLOROETHENE	0.7	U	U	
CIS-1,3-DICHLOROPROPENE	0.4	U	U	
DICHLORODIFLUOROMETHANE	1.2	U	U	
ETHYLBENZENE	140			
METHYL TERT-BUTYL ETHER	0.5	U	U	
METHYLENE CHLORIDE	10	IV	U	A
TETRACHLOROETHENE	0.5	U	U	
TOLUENE	28			
TOTAL XYLENES	900			

nsample	NASP18-GS28-0406
samp_date	4/27/2006
lab_id	0604370-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.75	U	U	
TRANS-1,3-DICHLOROPROPENE	0.6	U	U	
TRICHLOROETHENE	1.2	U	U	
TRICHLOROFLUOROMETHANE	0.6	U	U	
VINYL CHLORIDE	1	U	U	

nsample	NASP18-MW32S-0406
samp_date	4/27/2006
lab_id	0604370-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW32S-0406
samp_date	4/27/2006
lab_id	0604370-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW33I-0406
samp_date	4/27/2006
lab_id	0604370-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.16	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.35	I	J	P
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW33I-0406
samp_date	4/27/2006
lab_id	0604370-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW34D-0406
samp_date	4/27/2006
lab_id	0604370-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	UR	D
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW34D-0406
samp_date	4/27/2006
lab_id	0604370-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW35I-0406
samp_date	4/25/2006
lab_id	0604370-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.19	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	2	IV	U	A
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.33	I	J	P
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW35I-0406
samp_date	4/25/2006
lab_id	0604370-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW36S-0406
samp_date	4/25/2006
lab_id	0604370-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW36S-0406
samp_date	4/25/2006
lab_id	0604370-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW37S-0406	nsample	NASP18-MW37S-0406	nsample	NASP18-MW46I-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-01	lab_id	0604370-01	lab_id	0604370-14
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.81	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	2	IV	U	A
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.28	I	J	P
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW46I-0406
samp_date	4/25/2006
lab_id	0604370-14
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW47I-0406
samp_date	4/27/2006
lab_id	0604370-19
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.18	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.35	I	J	P
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW47I-0406
samp_date	4/27/2006
lab_id	0604370-19
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW48I-0406
samp_date	4/25/2006
lab_id	0604370-18
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW48I-0406
samp_date	4/25/2006
lab_id	0604370-18
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW52S-0406
samp_date	4/27/2006
lab_id	0604370-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.38	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW52S-0406
samp_date	4/27/2006
lab_id	0604370-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW53I-0406
samp_date	4/27/2006
lab_id	0604370-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW53I-0406
samp_date	4/27/2006
lab_id	0604370-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW54I-0406
samp_date	4/27/2006
lab_id	0604370-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	13			
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.72	I	J	P
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	8.5			

nsample	NASP18-MW54I-0406
samp_date	4/27/2006
lab_id	0604370-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW56S-0406
samp_date	4/27/2006
lab_id	0604370-20
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	UR	D
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.97	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW56S-0406
samp_date	4/27/2006
lab_id	0604370-20
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW57I-0406
samp_date	4/27/2006
lab_id	0604370-21
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW57I-0406
samp_date	4/27/2006
lab_id	0604370-21
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GI29-0406	nsample	NASP18-GS11-0406	nsample	NASP18-GS12-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/25/2006
lab_id	0604370-08	lab_id	0604370-07	lab_id	0604370-16
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.014	I	J	P
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.087	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.009	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0096	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.084	V	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.02	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS13-0406	nsample	NASP18-GS17-0406	nsample	NASP18-GS21-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/25/2006
lab_id	0604370-15	lab_id	0604370-10DL	lab_id	0604370-17
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	I	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	9.9			
2-METHYLNAPHTHALENE	11			
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	48	V		
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.02	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS28-0406	nsample	NASP18-MW32S-0406	nsample	NASP18-MW33I-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-09DL	lab_id	0604370-06	lab_id	0604370-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	20			
2-METHYLNAPHTHALENE	24			
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.36			
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	44	V		
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.018	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0097	U	U	
ANTHRACENE	0.011	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.011	U	U	
BENZO(B)FLUORANTHENE	0.018	U	U	
BENZO(G,H,I)PERYLENE	0.015	U	U	
BENZO(K)FLUORANTHENE	0.015	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.014	U	U	
FLUORANTHENE	0.013	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.057	IV	U	A
PHENANTHRENE	0.016	U	U	
PYRENE	0.012	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.013	I	J	P
2-METHYLNAPHTHALENE	0.018	I	J	P
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.054	IV	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW34D-0406	nsample	NASP18-MW35I-0406	nsample	NASP18-MW36S-0406
samp_date	4/27/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-04	lab_id	0604370-03	lab_id	0604370-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.054		U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.049	I	J	P
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.021	I	J	P
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.021	U	U	
PHENANTHRENE	0.015	U	U	
PYRENE	0.025	I	J	P

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.018	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0094	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.018	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.013	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.021	U	U	
PHENANTHRENE	0.016	U	U	
PYRENE	0.012	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW37S-0406	nsample	NASP18-MW46I-0406	nsample	NASP18-MW47I-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/27/2006
lab_id	0604370-01	lab_id	0604370-14	lab_id	0604370-19
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.012	U	U	
2-METHYLNAPHTHALENE	0.019	U	U	
ACENAPHTHENE	0.012	U	U	
ACENAPHTHYLENE	0.01	U	U	
ANTHRACENE	0.011	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.011	U	U	
BENZO(B)FLUORANTHENE	0.019	U	U	
BENZO(G,H,I)PERYLENE	0.015	U	U	
BENZO(K)FLUORANTHENE	0.015	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.014	U	U	
FLUORANTHENE	0.014	U	U	
FLUORENE	0.015	U	U	
INDENO(1,2,3-CD)PYRENE	0.021	U	U	
NAPHTHALENE	0.022	U	U	
PHENANTHRENE	0.016	U	U	
PYRENE	0.012	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.08			
BENZO(A)PYRENE	0.039	I	J	P
BENZO(B)FLUORANTHENE	0.073			
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.036	I	J	P
CHRYSENE	0.034	I	J	P
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.018	I	J	P
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.02	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.022	I	J	P

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.026	I	J	P
BENZO(A)PYRENE	0.013	I	J	P
BENZO(B)FLUORANTHENE	0.018	I	J	P
BENZO(G,H,I)PERYLENE	0.02	I	J	P
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.052	I	J	P

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW48I-0406	nsample	NASP18-MW52S-0406	nsample	NASP18-MW53I-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-18	lab_id	0604370-12	lab_id	0604370-11
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.02	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.028	I	J	P
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.067	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.032	I	J	P
2-METHYLNAPHTHALENE	0.027	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.14	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW54I-0406	nsample	NASP18-MW56S-0406	nsample	NASP18-MW57I-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-13	lab_id	0604370-20	lab_id	0604370-21
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.016	I	J	P
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.056	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.009	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0096	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.053	IV	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.076			
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.087			
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.047	I	J	P

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GI29-0406
samp_date	4/27/2006
lab_id	0604370-08
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-GS11-0406
samp_date	4/27/2006
lab_id	0604370-07
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-GS12-0406
samp_date	4/25/2006
lab_id	0604370-16
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.19	V	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS13-0406
samp_date	4/25/2006
lab_id	0604370-15
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	V	U	A

nsample	NASP18-GS17-0406
samp_date	4/27/2006
lab_id	0604370-10
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	11			

nsample	NASP18-GS21-0406
samp_date	4/25/2006
lab_id	0604370-17
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.2	V	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS28-0406
samp_date	4/27/2006
lab_id	0604370-09
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	20			

nsample	NASP18-MW32S-0406
samp_date	4/27/2006
lab_id	0604370-06
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW33I-0406
samp_date	4/27/2006
lab_id	0604370-05
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW34D-0406
samp_date	4/27/2006
lab_id	0604370-04
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW35I-0406
samp_date	4/25/2006
lab_id	0604370-03
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.19	IV	U	A

nsample	NASP18-MW36S-0406
samp_date	4/25/2006
lab_id	0604370-02
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW37S-0406
samp_date	4/25/2006
lab_id	0604370-01
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.17	IV	U	A

nsample	NASP18-MW46I-0406
samp_date	4/25/2006
lab_id	0604370-14
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW47I-0406
samp_date	4/27/2006
lab_id	0604370-19
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW48I-0406
samp_date	4/25/2006
lab_id	0604370-18
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.21	V	U	A

nsample	NASP18-MW52S-0406
samp_date	4/27/2006
lab_id	0604370-12
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW53I-0406
samp_date	4/27/2006
lab_id	0604370-11
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW54I-0406
samp_date	4/27/2006
lab_id	0604370-13
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW56S-0406
samp_date	4/27/2006
lab_id	0604370-20
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

nsample	NASP18-MW57I-0406
samp_date	4/27/2006
lab_id	0604370-21
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	IV	U	A

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GI29-0406
samp_date	4/27/2006
lab_id	0604370-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	478			
LEAD	1.5	U	U	
MANGANESE	4.7	I		

nsample	NASP18-GS11-0406
samp_date	4/27/2006
lab_id	0604370-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2070			
LEAD	1.5	U	U	
MANGANESE	3.2	I		

nsample	NASP18-GS12-0406
samp_date	4/25/2006
lab_id	0604370-16
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3300			
LEAD	1.5	U	U	
MANGANESE	4.1	I		

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS13-0406
samp_date	4/25/2006
lab_id	0604370-15
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3250			
LEAD	1.5	U	U	
MANGANESE	7.0	I		

nsample	NASP18-GS17-0406
samp_date	4/27/2006
lab_id	0604370-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	487			
LEAD	1.5	U	U	
MANGANESE	23.0			

nsample	NASP18-GS21-0406
samp_date	4/25/2006
lab_id	0604370-17
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	789			
LEAD	1.5	U	U	
MANGANESE	8.3	I		

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS28-0406
samp_date	4/27/2006
lab_id	0604370-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	502			
LEAD	12.0			
MANGANESE	6.4	I		

nsample	NASP18-MW32S-0406
samp_date	4/27/2006
lab_id	0604370-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	630			
LEAD	1.5	U	U	
MANGANESE	5.9	I		

nsample	NASP18-MW33I-0406
samp_date	4/27/2006
lab_id	0604370-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	32600			
LEAD	1.5	U	U	
MANGANESE	562			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW34D-0406
samp_date	4/27/2006
lab_id	0604370-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3470			
LEAD	1.5	U	U	
MANGANESE	40.1			

nsample	NASP18-MW35I-0406
samp_date	4/25/2006
lab_id	0604370-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	29800			
LEAD	8.8			
MANGANESE	840			

nsample	NASP18-MW36S-0406
samp_date	4/25/2006
lab_id	0604370-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	212			
LEAD	1.5	U	U	
MANGANESE	3.0	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW37S-0406
samp_date	4/25/2006
lab_id	0604370-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1330			
LEAD	1.5	U	U	
MANGANESE	10.8	I		

nsample	NASP18-MW46I-0406
samp_date	4/25/2006
lab_id	0604370-14
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	25100			
LEAD	12.3			
MANGANESE	633			

nsample	NASP18-MW47I-0406
samp_date	4/27/2006
lab_id	0604370-19
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	23500			
LEAD	5.6			
MANGANESE	1200			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW48I-0406
samp_date	4/25/2006
lab_id	0604370-18
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	19800			
LEAD	1.5	U	U	
MANGANESE	872			

nsample	NASP18-MW52S-0406
samp_date	4/27/2006
lab_id	0604370-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	475			
LEAD	1.5	U	U	
MANGANESE	50.2			

nsample	NASP18-MW53I-0406
samp_date	4/27/2006
lab_id	0604370-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	8350			
LEAD	1.5	U	U	
MANGANESE	140			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW54I-0406
samp_date	4/27/2006
lab_id	0604370-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	22100			
LEAD	1.5	U	U	
MANGANESE	323			

nsample	NASP18-MW56S-0406
samp_date	4/27/2006
lab_id	0604370-20
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1030			
LEAD	1.5	U	U	
MANGANESE	22.3			

nsample	NASP18-MW57I-0406
samp_date	4/27/2006
lab_id	0604370-21
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	26200			
LEAD	13.2			
MANGANESE	558			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GI29-0406
samp_date	4/27/2006
lab_id	0604370-08Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	462			
MANGANESE	4.8	I		

nsample	NASP18-GS11-0406
samp_date	4/27/2006
lab_id	0604370-07Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30.0	U	U	
MANGANESE	3.0	U	U	

nsample	NASP18-GS12-0406
samp_date	4/25/2006
lab_id	0604370-16Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	514			
MANGANESE	3.0	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS13-0406
samp_date	4/25/2006
lab_id	0604370-15Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	35.7	I		
MANGANESE	3.0	U	U	

nsample	NASP18-GS17-0406
samp_date	4/27/2006
lab_id	0604370-10Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	458			
MANGANESE	22.9			

nsample	NASP18-GS21-0406
samp_date	4/25/2006
lab_id	0604370-17Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	555			
MANGANESE	6.9	I		

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS28-0406
samp_date	4/27/2006
lab_id	0604370-09Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	370			
MANGANESE	5.6	I		

nsample	NASP18-MW32S-0406
samp_date	4/27/2006
lab_id	0604370-06Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	151			
MANGANESE	5.2	I		

nsample	NASP18-MW33I-0406
samp_date	4/27/2006
lab_id	0604370-05Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	24400			
MANGANESE	478			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW34D-0406	nsample	NASP18-MW35I-0406	nsample	NASP18-MW36S-0406
samp_date	4/27/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-04Solub	lab_id	0604370-03Solub	lab_id	0604370-02Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2890			
MANGANESE	37.7			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	8110			
MANGANESE	336			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	96.8	I		
MANGANESE	3.0	U	U	

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW37S-0406
samp_date	4/25/2006
lab_id	0604370-01Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	826			
MANGANESE	12.1	I		

nsample	NASP18-MW46I-0406
samp_date	4/25/2006
lab_id	0604370-14Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3190			
MANGANESE	139			

nsample	NASP18-MW47I-0406
samp_date	4/27/2006
lab_id	0604370-19Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	4350			
MANGANESE	695			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW48I-0406
samp_date	4/25/2006
lab_id	0604370-18Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	19700			
MANGANESE	855			

nsample	NASP18-MW52S-0406
samp_date	4/27/2006
lab_id	0604370-12Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	303			
MANGANESE	48.8			

nsample	NASP18-MW53I-0406
samp_date	4/27/2006
lab_id	0604370-11Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	7230			
MANGANESE	128			

PROJ_NO: 00140

SDG: NASP18W001 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW54I-0406
samp_date	4/27/2006
lab_id	0604370-13Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	12900			
MANGANESE	241			

nsample	NASP18-MW56S-0406
samp_date	4/27/2006
lab_id	0604370-20Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30.0	U	U	
MANGANESE	19.0			

nsample	NASP18-MW57I-0406
samp_date	4/27/2006
lab_id	0604370-21Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	8970			
MANGANESE	301			

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 7, 2006**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – TCL VOCs, 1,2-DIBROMOETHANE, PAHs, and TRPH**
CTO- 005 NAS PENSACOLA
SAMPLE DELIVERY GROUP (SDG) – NASP18W002

SAMPLES: 27/Aqueous

NASP18-GI02-0406	NASP18-GI03-0406	NASP18-GI04-0406
NASP18-GI05-0406	NASP18-GI06-0406	NASP18-GM25-0406
NASP18-GS02-0406	NASP18-GS05-0406	NASP18-GS08-0406
NASP18-GS09-0406	NASP18-GS14-0406	NASP18-GS15-0406
NASP18-GS16-0406	NASP18-GS18-0406	NASP18-MW42I-0406
NASP18-MW43D-0406	NASP18-MW44S-0406	NASP18-MW45I-0406
NASP18-MW55D-0406	NASP18-MWUNKNOWN01-0	NASP18-TB01-0406
NASP18-TB02-0406	NASP18-TB03-0406	NASP18-TB04-0406
NASP18-FB01-0406	NASP18-FB02-0406	NASP18-FB03-0406

Overview

The sample set for CTO 005, NAS Pensacola, SDG NASP18W002 consists of four (4) trip blanks, three (3) field blanks, and twenty (20) aqueous environmental samples.

The samples were analyzed for volatile organic compounds (VOCs), 1,2-dibromoethane (EDB), polynuclear aromatic hydrocarbons (PAHs), and total recoverable petroleum hydrocarbons (TRPH). The field blanks were analyzed for PAH and TRPH only and the trip blanks were analyzed for VOA only. The samples were collected by Tetra Tech NUS on April 25 and 27, 2006 and analyzed by Empirical Laboratories. PEL Laboratories analyzed the samples for EDB. All analyses were conducted in accordance with Department of Defense (DoD) Quality Assurance/Quality Control (QA/QC) criteria. Analyses for VOCs, 1,2-dibromoethane, and PAHs were conducted using SW-846 methods 8260B, 8011, and 8270C, respectively. Analyses for TRPH were conducted using the Florida-PRO method.

The data contained in this SDG were validated with regard to the following parameters:

- * Data Completeness
- * Holding Times
- * Calibration Results
- Blank Results
- Matrix Spike/Matrix Spike Duplicate Results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

Blank Results

The following analytes were detected in the laboratory method blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Blank Action Level
Methylene chloride	1.5 µg/L	15 µg/L
Naphthalene	0.14 µg/L	0.7 µg/L
2-Methylnaphthalene	0.034 µg/L	0.17 µg/L
1-Methylnaphthalene	0.024 µg/L	0.12 µg/L
TRPH	0.16 mg/L	0.80 mg/L

An action level of five times (ten times for methylene chloride) the maximum concentration was used to evaluate the sample data for laboratory blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when applying the blank action levels. Positive results, less than the blank action level, reported for methylene chloride were qualified "U" as a result of laboratory blank contamination. Field quality control samples were not qualified as a result of blank contamination.

Matrix Spikes

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample NASP18-MW43D-0406 had percent recoveries for 2-chloroethyl vinyl ether less than 10% quality control limit. The nondetected results reported for 2-chloroethyl vinyl ether in sample NASP18-MW43D-0406 was rejected, "UR".

Detection Limits

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

Notes

Samples NASP18-GS02-0406 and NASP18-GS18-0406 required 2X dilutions because of concentrations greater than the linear range of the instrument for ethylbenzene and total xylenes.

Samples NASP18-GM-25-0406 (2X), NASP18-GS02-0406 (50X), NASP18-GS05-0406 (10X), and NASP18-GS18-0406 (10X) required dilutions because of concentrations greater than the linear range of the instrument for several PAHs.

Sample NASP18-GS02-0406 required a 2X dilution because of a TRPH concentration greater than the linear range of the instrument.

Executive Summary

Laboratory Performance Issues: Several analytes were detected in the laboratory method blanks.

Other Factors Affecting Data Quality: Matrix spike / matrix spike duplicate non-compliance for 2-chloroethyl vinyl ether resulted in the rejection of data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for Environmental Laboratories."

Tetra Tech NUS
Edward Sedlmyer
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI02-0406	nsample	NASP18-GI02-0406	nsample	NASP18-GI03-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/27/2006
lab_id	0604370-25	lab_id	0604370-25	lab_id	0604370-34
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.79	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI03-0406
samp_date	4/27/2006
lab_id	0604370-34
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GI04-0406
samp_date	4/27/2006
lab_id	0604370-36
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GI04-0406
samp_date	4/27/2006
lab_id	0604370-36
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI05-0406
samp_date	4/27/2006
lab_id	0604370-38
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GI05-0406
samp_date	4/27/2006
lab_id	0604370-38
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GI06-0406
samp_date	4/27/2006
lab_id	0604370-40
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI06-0406
samp_date	4/27/2006
lab_id	0604370-40
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GM25-0406
samp_date	4/25/2006
lab_id	0604370-33
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	1.1			
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	16			
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	12			
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.28	I	J	P
TOTAL XYLENES	66			

nsample	NASP18-GM25-0406
samp_date	4/25/2006
lab_id	0604370-33
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.64	I	J	P
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.65	I	J	P
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS02-0406	nsample	NASP18-GS02-0406	nsample	NASP18-GS05-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/27/2006
lab_id	0604370-26	lab_id	0604370-26	lab_id	0604370-37
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.24	U	U	
1,1,2,2-TETRACHLOROETHANE	0.26	U	U	
1,1,2-TRICHLOROETHANE	0.2	U	U	
1,1-DICHLOROETHANE	0.22	U	U	
1,1-DICHLOROETHENE	0.26	U	U	
1,2,4-TRICHLOROBENZENE	1.1	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.22	U	U	
1,2-DICHLOROETHANE	0.26	U	U	
1,2-DICHLOROPROPANE	0.22	U	U	
1,3-DICHLOROBENZENE	0.76	U	U	
1,4-DICHLOROBENZENE	0.2	U	U	
2-CHLOROETHYL VINYL ETHER	0.48	U	U	
BENZENE	5.9			
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.26	U	U	
BROMOMETHANE	0.26	U	U	
CARBON TETRACHLORIDE	0.22	U	U	
CHLOROBENZENE	0.2	U	U	
CHLORODIBROMOMETHANE	0.28	U	U	
CHLOROETHANE	0.28	U	U	
CHLOROFORM	0.26	U	U	
CHLOROMETHANE	0.56	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.16	U	U	
DICHLORODIFLUOROMETHANE	0.5	U	U	
ETHYLBENZENE	140			
METHYL TERT-BUTYL ETHER	0.2	U	U	
METHYLENE CHLORIDE	1.1	IV	U	A
TETRACHLOROETHENE	0.2	U	U	
TOLUENE	46			
TOTAL XYLENES	580			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.3	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.46	U	U	
TRICHLOROFLUOROMETHANE	0.24	U	U	
VINYL CHLORIDE	0.4	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	9.9			
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.32	I	J	P
TOTAL XYLENES	78			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS05-0406
samp_date	4/27/2006
lab_id	0604370-37
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS08-0406
samp_date	4/27/2006
lab_id	0604370-35
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS08-0406
samp_date	4/27/2006
lab_id	0604370-35
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS09-0406
samp_date	4/27/2006
lab_id	0604370-39
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	1.1			
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS09-0406
samp_date	4/27/2006
lab_id	0604370-39
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS14-0406
samp_date	4/27/2006
lab_id	0604370-22
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS14-0406
samp_date	4/27/2006
lab_id	0604370-22
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS15-0406
samp_date	4/27/2006
lab_id	0604370-23
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS15-0406
samp_date	4/27/2006
lab_id	0604370-23
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS16-0406
samp_date	4/27/2006
lab_id	0604370-41
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	2.4			
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-GS16-0406
samp_date	4/27/2006
lab_id	0604370-41
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-GS18-0406
samp_date	4/25/2006
lab_id	0604370-24
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.24	U	U	
1,1,2,2-TETRACHLOROETHANE	0.26	U	U	
1,1,2-TRICHLOROETHANE	0.2	U	U	
1,1-DICHLOROETHANE	0.22	U	U	
1,1-DICHLOROETHENE	0.26	U	U	
1,2,4-TRICHLOROBENZENE	1.1	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.22	U	U	
1,2-DICHLOROETHANE	0.26	U	U	
1,2-DICHLOROPROPANE	0.22	U	U	
1,3-DICHLOROBENZENE	0.76	U	U	
1,4-DICHLOROBENZENE	0.2	U	U	
2-CHLOROETHYL VINYL ETHER	0.48	U	U	
BENZENE	10			
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.26	U	U	
BROMOMETHANE	0.26	U	U	
CARBON TETRACHLORIDE	0.22	U	U	
CHLOROBENZENE	0.2	U	U	
CHLORODIBROMOMETHANE	0.28	U	U	
CHLOROETHANE	0.28	U	U	
CHLOROFORM	0.26	U	U	
CHLOROMETHANE	0.56	U	U	
CIS-1,2-DICHLOROETHENE	0.46	I	J	P
CIS-1,3-DICHLOROPROPENE	0.16	U	U	
DICHLORODIFLUOROMETHANE	0.5	U	U	
ETHYLBENZENE	120			
METHYL TERT-BUTYL ETHER	0.2	U	U	
METHYLENE CHLORIDE	1.5	IV	U	A
TETRACHLOROETHENE	0.2	U	U	
TOLUENE	1.7	I	J	P
TOTAL XYLENES	520			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS18-0406	nsample	NASP18-MW42I-0406	nsample	NASP18-MW42I-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-24	lab_id	0604370-32	lab_id	0604370-32
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.3	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.46	U	U	
TRICHLOROFLUOROMETHANE	0.24	U	U	
VINYL CHLORIDE	0.4	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.61	I	J	P
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.41	IV	U	A
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.45	I	J	P
TOTAL XYLENES	1.7			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW43D-0406
samp_date	4/25/2006
lab_id	0604370-31
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	UR	D
BENZENE	7.1			
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW43D-0406
samp_date	4/25/2006
lab_id	0604370-31
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW44S-0406
samp_date	4/25/2006
lab_id	0604370-29
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW44S-0406
samp_date	4/25/2006
lab_id	0604370-29
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MW45I-0406
samp_date	4/25/2006
lab_id	0604370-30
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.57	I	J	P
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	12			
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	17			
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.19	I	J	P
TOTAL XYLENES	26			

nsample	NASP18-MW45I-0406
samp_date	4/25/2006
lab_id	0604370-30
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW55D-0406
samp_date	4/27/2006
lab_id	0604370-28
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	

nsample	NASP18-MW55D-0406
samp_date	4/27/2006
lab_id	0604370-28
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006
lab_id	0604370-27
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.13	U	U	
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.23	U	U	
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.44	I	J	P
TOTAL XYLENES	12			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006
lab_id	0604370-27
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.15	U	U	
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-TB01-0406
samp_date	4/27/2006
lab_id	0604370-46
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.56	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.79	IV	J	P
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	
TRANS-1,2-DICHLOROETHENE	0.15	U	U	

nsample	NASP18-TB01-0406
samp_date	4/27/2006
lab_id	0604370-46
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-TB02-0406
samp_date	4/27/2006
lab_id	0604370-47
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.55	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.85	IV	J	P
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	I	J	P
TOTAL XYLENES	0.47	U	U	
TRANS-1,2-DICHLOROETHENE	0.15	U	U	

nsample	NASP18-TB02-0406
samp_date	4/27/2006
lab_id	0604370-47
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

nsample	NASP18-TB03-0406
samp_date	4/27/2006
lab_id	0604370-48
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.49	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.78	IV	J	P
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.16	U	U	
TOTAL XYLENES	0.47	U	U	
TRANS-1,2-DICHLOROETHENE	0.15	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-TB03-0406	nsample	NASP18-TB04-0406	nsample	NASP18-TB04-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-48	lab_id	0604370-49	lab_id	0604370-49
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.12	U	U	
1,1,2,2-TETRACHLOROETHANE	0.13	U	U	
1,1,2-TRICHLOROETHANE	0.1	U	U	
1,1-DICHLOROETHANE	0.11	U	U	
1,1-DICHLOROETHENE	0.13	U	U	
1,2,4-TRICHLOROBENZENE	0.57	U	U	
1,2-DICHLOROBENZENE	0.11	U	U	
1,2-DICHLOROETHANE	0.13	U	U	
1,2-DICHLOROPROPANE	0.11	U	U	
1,3-DICHLOROBENZENE	0.38	U	U	
1,4-DICHLOROBENZENE	0.1	U	U	
2-CHLOROETHYL VINYL ETHER	0.24	U	U	
BENZENE	0.12	U	U	
BROMODICHLOROMETHANE	0.12	U	U	
BROMOFORM	0.13	U	U	
BROMOMETHANE	0.13	U	U	
CARBON TETRACHLORIDE	0.11	U	U	
CHLOROBENZENE	0.1	U	U	
CHLORODIBROMOMETHANE	0.14	U	U	
CHLOROETHANE	0.14	U	U	
CHLOROFORM	0.53	I	J	P
CHLOROMETHANE	0.28	U	U	
CIS-1,2-DICHLOROETHENE	0.14	U	U	
CIS-1,3-DICHLOROPROPENE	0.08	U	U	
DICHLORODIFLUOROMETHANE	0.25	U	U	
ETHYLBENZENE	0.35	U	U	
METHYL TERT-BUTYL ETHER	0.1	U	U	
METHYLENE CHLORIDE	0.64	IV	J	P
TETRACHLOROETHENE	0.1	U	U	
TOLUENE	0.17	I	J	P
TOTAL XYLENES	0.47	U	U	
TRANS-1,2-DICHLOROETHENE	0.15	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.12	U	U	
TRICHLOROETHENE	0.23	U	U	
TRICHLOROFLUOROMETHANE	0.12	U	U	
VINYL CHLORIDE	0.2	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-FB01-0406	nsample	NASP18-FB02-0406	nsample	NASP18-FB03-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-43	lab_id	0604370-44	lab_id	0604370-45
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.017	I	J	P
2-METHYLNAPHTHALENE	0.021	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.054			
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	I	J	P
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.043	I	J	P
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.045	I	J	P
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GI02-0406	nsample	NASP18-GI03-0406	nsample	NASP18-GI04-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-25	lab_id	0604370-34	lab_id	0604370-36
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.02	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.05	I	U	A
2-METHYLNAPHTHALENE	0.05	I	U	A
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0085	U	U	
ANTHRACENE	0.0095	U	U	
BENZO(A)ANTHRACENE	0.01	U	U	
BENZO(A)PYRENE	0.0095	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.009	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.012	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.054	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.01	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.053	I	U	A
2-METHYLNAPHTHALENE	0.053	I	U	A
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.009	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0096	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.053	V	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GI05-0406	nsample	NASP18-GI06-0406	nsample	NASP18-GM25-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/25/2006
lab_id	0604370-38	lab_id	0604370-40	lab_id	0604370-33DL
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.054	IV	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	9.8			
2-METHYLNAPHTHALENE	12			
ACENAPHTHENE	0.14			
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.29			
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	9.9			
PHENANTHRENE	0.059			
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS02-0406	nsample	NASP18-GS05-0406	nsample	NASP18-GS08-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-26DL	lab_id	0604370-37DL	lab_id	0604370-35
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	51			
2-METHYLNAPHTHALENE	58			
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	1.2			
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	79			
PHENANTHRENE	0.014	U	U	
PYRENE	0.039	I	J	P

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	16			
2-METHYLNAPHTHALENE	19			
ACENAPHTHENE	0.11			
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.13			
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	7.2	V		
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.3			
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.98			
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.56			
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.36			
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.019	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.1			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS09-0406	nsample	NASP18-GS14-0406	nsample	NASP18-GS15-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-39	lab_id	0604370-22	lab_id	0604370-23
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS16-0406
samp_date	4/27/2006
lab_id	0604370-41
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.052	IV	U	A
2-METHYLNAPHTHALENE	0.052	IV	U	A
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.099	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

nsample	NASP18-GS18-0406
samp_date	4/25/2006
lab_id	0604370-24DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	15			
2-METHYLNAPHTHALENE	14			
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0085	U	U	
ANTHRACENE	0.0095	U	U	
BENZO(A)ANTHRACENE	0.024	I	J	P
BENZO(A)PYRENE	0.0095	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.017	I	J	P
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.19	J		
FLUORENE	0.012	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	24			
PHENANTHRENE	0.014	U	U	
PYRENE	0.1			

nsample	NASP18-MW42I-0406
samp_date	4/25/2006
lab_id	0604370-32
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.052	I	U	A
2-METHYLNAPHTHALENE	0.052	I	U	A
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.042	I	J	P
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.022	I	J	P
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.095		U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.027	I	J	P

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW43D-0406	nsample	NASP18-MW44S-0406	nsample	NASP18-MW45I-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-31	lab_id	0604370-29	lab_id	0604370-30
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	I	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.052	I	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0085	U	U	
ANTHRACENE	0.0095	U	U	
BENZO(A)ANTHRACENE	0.061			
BENZO(A)PYRENE	0.0095	U	U	
BENZO(B)FLUORANTHENE	0.026	I	J	P
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.015	I	J	P
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.03	I	J	P
FLUORENE	0.012	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.05	I	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.11			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW55D-0406	nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-28	lab_id	0604370-27
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.051	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.056	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-FB01-0406	nsample	NASP18-FB02-0406	nsample	NASP18-FB03-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-43	lab_id	0604370-44	lab_id	0604370-45
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.32	V		

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.33	V		

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.34	V		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GI02-0406	nsample	NASP18-GI03-0406	nsample	NASP18-GI04-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-25	lab_id	0604370-34	lab_id	0604370-36
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	3			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GI05-0406
samp_date	4/27/2006
lab_id	0604370-38
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

nsample	NASP18-GI06-0406
samp_date	4/27/2006
lab_id	0604370-40
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

nsample	NASP18-GM25-0406
samp_date	4/25/2006
lab_id	0604370-33
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	1.5			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS02-0406
samp_date	4/25/2006
lab_id	0604370-26
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	19			

nsample	NASP18-GS05-0406
samp_date	4/27/2006
lab_id	0604370-37
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	1.5			

nsample	NASP18-GS08-0406
samp_date	4/27/2006
lab_id	0604370-35
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS09-0406	nsample	NASP18-GS14-0406	nsample	NASP18-GS15-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-39	lab_id	0604370-22	lab_id	0604370-23
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS16-0406	nsample	NASP18-GS18-0406	nsample	NASP18-MW42I-0406
samp_date	4/27/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-41	lab_id	0604370-24	lab_id	0604370-32
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	7.2			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.41	V	U	A

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW43D-0406	nsample	NASP18-MW44S-0406	nsample	NASP18-MW45I-0406
samp_date	4/25/2006	samp_date	4/25/2006	samp_date	4/25/2006
lab_id	0604370-31	lab_id	0604370-29	lab_id	0604370-30
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.17	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.22	V	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.53	V	U	A

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW55D-0406	nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-28	lab_id	0604370-27
qc_type	NM	qc_type	NM
units	MG/L	units	MG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.3	V	U	A

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 14, 2006**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – IRON, LEAD, AND MANGANESE**
CTO- 005 NAS PENSACOLA
SAMPLE DELIVERY GROUP (SDG) – NASP18W002

SAMPLES: 20/Aqueous/

NASP18-GI02-0406	NASP18-GI03-0406	NASP18-GI04-0406
NASP18-GI05-0406	NASP18-GI06-0406	NASP18-GM25-0406
NASP18-GS02-0406	NASP18-GS05-0406	NASP18-GS08-0406
NASP18-GS09-0406	NASP18-GS14-0406	NASP18-GS15-0406
NASP18-GS16-0406	NASP18-GS18-0406	NASP18-MW42I-0406
NASP18-MW43D-0406	NASP18-MW44S-0406	NASP18-MW45I-0406
NASP18-MW55D-0406	NASP18-MWUNKNOWN01-0	

Overview

The sample set for CTO 005, NAS Pensacola, SDG NASP18W002 consists of twenty (20) aqueous environmental samples.

All samples were analyzed for total and dissolved iron and manganese and total lead. The samples were collected by Tetra Tech NUS on April 25 and 27, 2006 and analyzed by Empirical Laboratories. All analyses were conducted in accordance with Department of Defense (DoD) Quality Assurance/Quality Control (QA/QC) criteria. Analyses for metals were conducted using SW-846 method 6010B.

The data contained in this SDG were validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Results
* • Blank Results
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Metals

No qualification of the data was necessary.

Executive Summary

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Inorganic Data Validation (July, 2002), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for Environmental Laboratories."

Tetra Tech NUS
Edward Sedlmyer
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GI02-0406
samp_date	4/25/2006
lab_id	0604370-25
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	685			
LEAD	3.6			
MANGANESE	6	I		

nsample	NASP18-GI03-0406
samp_date	4/27/2006
lab_id	0604370-34
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	617			
LEAD	1.5	U	U	
MANGANESE	3.5	I		

nsample	NASP18-GI04-0406
samp_date	4/27/2006
lab_id	0604370-36
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	318			
LEAD	1.5	U	U	
MANGANESE	3	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GI05-0406
samp_date	4/27/2006
lab_id	0604370-38
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	244			
LEAD	1.5	U	U	
MANGANESE	3	U	U	

nsample	NASP18-GI06-0406
samp_date	4/27/2006
lab_id	0604370-40
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	720			
LEAD	1.5	U	U	
MANGANESE	3	U	U	

nsample	NASP18-GM25-0406
samp_date	4/25/2006
lab_id	0604370-33
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	851			
LEAD	1.5	U	U	
MANGANESE	10.3	I		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS02-0406
samp_date	4/25/2006
lab_id	0604370-26
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	4480			
LEAD	17.4			
MANGANESE	94.4			

nsample	NASP18-GS05-0406
samp_date	4/27/2006
lab_id	0604370-37
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2290			
LEAD	156			
MANGANESE	14.9	I		

nsample	NASP18-GS08-0406
samp_date	4/27/2006
lab_id	0604370-35
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1140			
LEAD	1.5	U	U	
MANGANESE	11.2	I		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS09-0406
samp_date	4/27/2006
lab_id	0604370-39
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2420			
LEAD	1.5	U	U	
MANGANESE	28.3			

nsample	NASP18-GS14-0406
samp_date	4/27/2006
lab_id	0604370-22
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	352			
LEAD	1.5	U	U	
MANGANESE	3	U	U	

nsample	NASP18-GS15-0406
samp_date	4/27/2006
lab_id	0604370-23
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	704			
LEAD	1.5	U	U	
MANGANESE	16.9			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS16-0406
samp_date	4/27/2006
lab_id	0604370-41
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	128			
LEAD	1.5	U	U	
MANGANESE	23.5			

nsample	NASP18-GS18-0406
samp_date	4/25/2006
lab_id	0604370-24
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	5820			
LEAD	118			
MANGANESE	89.8			

nsample	NASP18-MW42I-0406
samp_date	4/25/2006
lab_id	0604370-32
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	23900			
LEAD	16.3			
MANGANESE	487			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW43D-0406
samp_date	4/25/2006
lab_id	0604370-31
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	18300			
LEAD	2.4	I		
MANGANESE	364			

nsample	NASP18-MW44S-0406
samp_date	4/25/2006
lab_id	0604370-29
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1390			
LEAD	1.5	U	U	
MANGANESE	10.3	I		

nsample	NASP18-MW45I-0406
samp_date	4/25/2006
lab_id	0604370-30
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3190			
LEAD	2.4	I		
MANGANESE	29.5			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW55D-0406
samp_date	4/27/2006
lab_id	0604370-28
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1010			
LEAD	1.5	U	U	
MANGANESE	9	I		

nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006
lab_id	0604370-27
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1920			
LEAD	1.5	U	U	
MANGANESE	8.9	I		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GI02-0406	nsample	NASP18-GI03-0406	nsample	NASP18-GI04-0406
samp_date	4/25/2006	samp_date	4/27/2006	samp_date	4/27/2006
lab_id	0604370-25Solub	lab_id	0604370-34Solub	lab_id	0604370-36Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	640			
MANGANESE	6	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	561			
MANGANESE	3.7	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	328			
MANGANESE	3	U	U	

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GI05-0406	nsample	NASP18-GI06-0406	nsample	NASP18-GM25-0406
samp_date	4/27/2006	samp_date	4/27/2006	samp_date	4/25/2006
lab_id	0604370-38Solub	lab_id	0604370-40Solub	lab_id	0604370-33Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	197			
MANGANESE	3	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	626			
MANGANESE	3	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	861			
MANGANESE	11	I		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS02-0406
samp_date	4/25/2006
lab_id	0604370-26Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	4630			
MANGANESE	94.7			

nsample	NASP18-GS05-0406
samp_date	4/27/2006
lab_id	0604370-37Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	270			
MANGANESE	9	I		

nsample	NASP18-GS08-0406
samp_date	4/27/2006
lab_id	0604370-35Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	525			
MANGANESE	11.7	I		

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS09-0406
samp_date	4/27/2006
lab_id	0604370-39Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	24.9			

nsample	NASP18-GS14-0406
samp_date	4/27/2006
lab_id	0604370-22Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	3	U	U	

nsample	NASP18-GS15-0406
samp_date	4/27/2006
lab_id	0604370-23Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	129			
MANGANESE	15.8			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS16-0406
samp_date	4/27/2006
lab_id	0604370-41Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	23.1			

nsample	NASP18-GS18-0406
samp_date	4/25/2006
lab_id	0604370-24Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1600			
MANGANESE	46.5			

nsample	NASP18-MW42I-0406
samp_date	4/25/2006
lab_id	0604370-32Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	12400			
MANGANESE	293			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW43D-0406
samp_date	4/25/2006
lab_id	0604370-31Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	12000			
MANGANESE	244			

nsample	NASP18-MW44S-0406
samp_date	4/25/2006
lab_id	0604370-29Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1310			
MANGANESE	5.9	I		

nsample	NASP18-MW45I-0406
samp_date	4/25/2006
lab_id	0604370-30Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	3430			
MANGANESE	38.9			

PROJ_NO: 00140

SDG: NASP18W002 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW55D-0406
samp_date	4/27/2006
lab_id	0604370-28Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	848			
MANGANESE	16.6			

nsample	NASP18-MWUNKNOWN01-0
samp_date	4/27/2006
lab_id	0604370-27Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1870			
MANGANESE	13.5	I		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 17, 2006**
FROM:	**KELLY CARPER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH//EDB/TPH/DISSOLVED GASES**
CTO 005, NAS PENSACOLA
SDG NASP18W003

SAMPLES: 22/Aqueous/Volatiles, Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Hydrocarbons (TRPH)

NASP18-GI27-0506	NASP18-GI31-0506	NASP18-GM24-0506
NASP18-GS04-0506	NASP18-GS06-0506	NASP18-GS19-0506
NASP18-GS22-0506	NASP18-GS26-0506	NASP18-GS30-0506
NASP18-MW38-0506	NASP18-MW39-0506	NASP-MW39-0506-D
NASP18-MW40-0506	NASP18-MW41S-0506	NASP-MW49S-0506
NASP-MW49S-0506-D	NASP18-MW50I-0506	NASP18-MW51-0506
NASP-MW58I-0506	NASP18-MW59S-0506	TRIP BLANK-050406
TRIP BLANK-050306		

3/Aqueous/1,2-dibromoethane (EDB) via SW-846 8260

NASP18-GI27-0506	NASP18-GS26-0506	TRIP BLANK-050306

18/Aqueous/EDB via SW-846 8011

NASP18-GI31-0506	NASP18-GM24-0506	NASP18-GS04-
0506NASP18-GS06-0506	NASP18-GS19-0506	NASP18-GS22-0506
NASP18-GS30-0506	NASP18-MW38-0506	NASP18-MW39-0506
NASP-MW39-0506-D	NASP18-MW40-0506	NASP18-MW41S-
0506NASP-MW49S-0506	NASP-MW49S-0506-D	NASP18-MW50I-0506
NASP18-MW51-0506	NASP-MW58I-0506	NASP18-MW59S-0506

10/Aqueous/Dissolved gases (methane, ethane, ethene)

NASP18-GS04-0506	NASP18-GS06-0506	NASP18-GS19-0506
NASP18-GS30-0506	NASP18-MW38-0506	NASP18-MW40-0506
NASP18-MW41S-0506	NASP-MW49S-0506	NASP-MW49S-0506-D
NASP18-MW50I-0506		

OVERVIEW

The sample set for CTO 005 NAS Pensacola, SDG NASP18W003 consists of two (2) trip blanks, and twenty (20) environmental water samples. All samples were analyzed as indicated above except the trip blanks were only analyzed for volatiles. Two (2) field duplicate pairs were included with this SDG: NASP18-MW39-0506/NASP-MW39-0506-D and 0506NASP-MW49S-0506/NASP-MW49S-0506-D.

The samples were collected by TetraTech NUS on May 1, 2, and 3, 2006 and analyzed by Empirical Laboratories. All analyses were conducted in accordance with SW-846 Methods 8260B (volatile), 8270C (PAHs), 8011 (EDB), RSK SOPs 147/175 (dissolved gases), and FL-PRO (TRPH) analysis and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
  • Initial and continuing calibration
  • Blank results
  • Field Duplicate Results
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

The following compounds were detected in aqueous method blanks:

Analyte	Maximum Detection ug/L	Action Level ug/L
Methylene chloride	1.4	14
Chloromethane	0.43	2.15

Sample aliquot size, and dilution factors were taken into consideration during the application of action limits. Positive results for these compounds reported at concentrations below the action level were qualified, (U), as a result of blank contamination. Methylene chloride was also detected in the trip blanks at similar concentrations. The trip blanks were not qualified for blank contamination.

The relative percent difference (RPD) between field duplicate samples NASP18-MW49S-0506/NASP18-MW49S-0506-D was greater than 30% for ethylbenzene and toluene. The positive results for these compounds in this pair were qualified as estimated, (J).

Samples NASP18-MW49S-0506, NASP18-MW49-0506-D, NASP18-GS30-0506, NASP18-MW41S-0506, NASP18-MW59S-0506 were analyzed at 5 fold dilutions and no undiluted analyses were performed. Hence, these samples have slightly elevated reporting limits.

Sample NASP18-GS26-0506 was analyzed at a 2 fold dilution and no undiluted analyses were performed. Hence, this sample has slightly elevated reporting limits.

PAHs

The following compounds were detected in aqueous method blanks:

Analyte	Maximum Detection ug/L	Action Level ug/L
Naphthalene	0.077	0.385
1-Methyl Naphthalene	0.01	0.05

Sample aliquot size, and dilution factors were taken into consideration during the application of action limits. Positive results for these compounds reported at concentrations below the action level were qualified, (U), as a result of blank contamination.

Samples NASP18-MW49S-0506 (10x), NASP18-MW49S-0506-D (20x), NASP18-GI31-0506 (20x), NASP18-MW41S-0506 (20x), and NASP18-MW59S-0506 (20x) were reanalyzed at dilutions due to concentrations of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene in excess of the linear calibration range.

Sample NASP18-GS26-0506 contains elevated detection limits because the final extract volume was 160 ml.

Total Petroleum Hydrocarbons

The following analyte was detected in aqueous method blank:

Analyte	Maximum Detection mg/L	Action Level mg/L
TPH	0.14	0.70

Sample aliquot and dilution factors were taken into consideration during the application of action limits. All positive results for TPH at concentrations less than the action level were qualified undetected (U) as a result of laboratory blank contamination.

EDB

Analysis of EDB by method 8011 in samples NASP18-GI27-0506 and NASP18-GS26-0506 was cancelled. Method 8260B was used to determine EDB in the aforementioned samples. Detection limits are elevated in the 8260B analysis for EDB compared with method 8011 detection limits.

No problems were noted.

Dissolved gases

The following compound was detected in aqueous method blank:

Analyte	Maximum Detection ug/L	Action Level ug/L
methane	2.4	12

Sample aliquot and dilution factors were taken into consideration during the application of action limits. All positive results for methane at concentrations less than the action level were qualified undetected (U) as a result of laboratory blank contamination.

The relative percent difference (RPD) between field duplicate samples NASP18-MW49S-0506/NASP18-MW49S-0506-D was greater than 30% for methane. The positive results for this compound in this pair were qualified as estimated, (J).

Samples NASP18-MW40-0506 (10x), NASP18-MW41S-0506-D (20x), NASP18-GS04-0506 (20x), NASP18-MW38-0506 (10x), and NASP18-GS19-0506 (5x) were reanalyzed at dilutions due to concentrations of methane in excess of the linear calibration range.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

Samples NASP18-GI27-0506 and NASP18-GS26-0506 were listed on the chain of custody documents to receive analysis for methane, ethane, and ethane, but were cancelled by the project manager.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride, chloromethane, naphthalene, 1-methyl naphthalene, TRPH, and methane were detected in lab method blanks.

Other Factors Affecting Data Quality: The RPDs for ethylbenzene, toluene, and methane were high in the field duplicate pair (NASP18-MW49S-0506/NASP18-MW49S-0506-D).

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99). The text of this report has been formulated to address only those problem areas affecting data quality.

TetraTech NUS

Kelly A. Carper
Environmental Scientist

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI27-0506
samp_date	5/3/2006
lab_id	0605047-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.14	U	U	
1,2-DIBROMOETHANE	0.14	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	38			
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	0.15	U	U	
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	14			
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.26	U	U	
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	1.4			
TOTAL XYLENES	52			

nsample	NASP18-GI27-0506
samp_date	5/3/2006
lab_id	0605047-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

nsample	NASP18-GI31-0506
samp_date	5/2/2006
lab_id	0605025-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.89	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI31-0506
samp_date	5/2/2006
lab_id	0605025-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-GM24-0506
samp_date	5/2/2006
lab_id	0605025-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	1.5			
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.6	U	U	
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-GM24-0506
samp_date	5/2/2006
lab_id	0605025-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS04-0506
samp_date	5/3/2006
lab_id	0605047-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.2	I	J	P
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	0.11	U	U	
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	0.15	U	U	
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	1.1			
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.45	IV	U	A
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	0.18	U	U	
TOTAL XYLENES	0.59	I	J	P

nsample	NASP18-GS04-0506
samp_date	5/3/2006
lab_id	0605047-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

nsample	NASP18-GS06-0506
samp_date	5/3/2006
lab_id	0605047-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.14	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	0.11	U	U	
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	1.2			
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	4			
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.54	IV	U	A
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	3.6			
TOTAL XYLENES	36			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS06-0506
samp_date	5/3/2006
lab_id	0605047-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

nsample	NASP18-GS19-0506
samp_date	5/3/2006
lab_id	0605047-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.14	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	1.4			
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	0.15	U	U	
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	0.14	U	U	
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.26	U	U	
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	0.18	U	U	
TOTAL XYLENES	17			

nsample	NASP18-GS19-0506
samp_date	5/3/2006
lab_id	0605047-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS22-0506
samp_date	5/2/2006
lab_id	0605025-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0075	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	3.4			
CHLOROMETHANE	0.56	I	U	A
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	1.3	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-GS22-0506
samp_date	5/2/2006
lab_id	0605025-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-GS26-0506
samp_date	5/3/2006
lab_id	0605047-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.3	U	U	
1,1,2,2-TETRACHLOROETHANE	0.44	U	U	
1,1,2-TRICHLOROETHANE	0.34	U	U	
1,1-DICHLOROETHANE	0.3	U	U	
1,1-DICHLOROETHENE	0.84	U	U	
1,2,4-TRICHLOROBENZENE	0.28	U	U	
1,2-DIBROMOETHANE	0.28	U	U	
1,2-DICHLOROBENZENE	0.34	U	U	
1,2-DICHLOROETHANE	0.3	U	U	
1,2-DICHLOROPROPANE	0.36	U	U	
1,3-DICHLOROBENZENE	0.42	U	U	
1,4-DICHLOROBENZENE	0.24	U	U	
2-CHLOROETHYL VINYL ETHER	1.1	U	U	
BENZENE	9.6			
BROMODICHLOROMETHANE	0.48	U	U	
BROMOFORM	0.48	U	U	
BROMOMETHANE	0.66	U	U	
CARBON TETRACHLORIDE	0.28	U	U	
CHLOROBENZENE	0.56	U	U	
CHLORODIBROMOMETHANE	0.4	U	U	
CHLOROETHANE	0.76	U	U	
CHLOROFORM	0.3	U	U	
CHLOROMETHANE	0.36	U	U	
CIS-1,2-DICHLOROETHENE	0.88	U	U	
CIS-1,3-DICHLOROPROPENE	0.26	U	U	
DICHLORODIFLUOROMETHANE	0.48	U	U	
ETHYLBENZENE	170			
METHYL TERT-BUTYL ETHER	0.34	U	U	
METHYLENE CHLORIDE	0.52	U	U	
TETRACHLOROETHENE	0.28	U	U	
TOLUENE	2.5			
TOTAL XYLENES	150			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS26-0506
samp_date	5/3/2006
lab_id	0605047-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.8	U	U	
TRANS-1,3-DICHLOROPROPENE	0.44	U	U	
TRICHLOROETHENE	0.56	U	U	
TRICHLOROFLUOROMETHANE	0.3	U	U	
VINYL CHLORIDE	0.38	U	U	

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	0605025-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	1.4	U	U	
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	25			
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	6.3	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	19			
TOTAL XYLENES	1200			

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	0605025-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.4	U	U	
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.14	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	2.4			
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	0.15	U	U	
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	0.26	I	J	P
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.59	IV	U	A
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	0.25	I	J	P
TOTAL XYLENES	0.41	I	J	P

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

nsample	NASP18-MW39-0506
samp_date	5/2/2006
lab_id	0605025-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	UR	D
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.99	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.4	I	J	P
TOTAL XYLENES	0.33	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW39-0506
samp_date	5/2/2006
lab_id	0605025-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-MW39-0506-D
samp_date	5/2/2006
lab_id	0605025-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW39-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0075	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.78	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.35	I	J	P
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-MW39-0506-D
samp_date	5/2/2006
lab_id	0605025-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW39-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW40-0506
samp_date	5/2/2006
lab_id	0605025-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0075	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	19			
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.36	I	J	CP
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	1.6	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.99	I	J	P
TOTAL XYLENES	1.9			

nsample	NASP18-MW40-0506
samp_date	5/2/2006
lab_id	0605025-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-MW-41S-0506
samp_date	5/3/2006
lab_id	250379814
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,2-DIBROMOETHANE	0.0076	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW41S-0506
samp_date	5/3/2006
lab_id	0605047-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.75	U	U	
1,1,2,2-TETRACHLOROETHANE	1.1	U	U	
1,1,2-TRICHLOROETHANE	0.85	U	U	
1,1-DICHLOROETHANE	0.75	U	U	
1,1-DICHLOROETHENE	2.1	U	U	
1,2,4-TRICHLOROBENZENE	0.7	U	U	
1,2-DICHLOROBENZENE	0.85	U	U	
1,2-DICHLOROETHANE	0.75	U	U	
1,2-DICHLOROPROPANE	0.9	U	U	
1,3-DICHLOROBENZENE	1	U	U	
1,4-DICHLOROBENZENE	0.6	U	U	
2-CHLOROETHYL VINYL ETHER	2.6	U	U	
BENZENE	10			
BROMODICHLOROMETHANE	1.2	U	U	
BROMOFORM	1.2	U	U	
BROMOMETHANE	1.6	U	U	
CARBON TETRACHLORIDE	0.7	U	U	
CHLOROBENZENE	1.4	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	1.9	U	U	
CHLOROFORM	0.75	U	U	
CHLOROMETHANE	0.9	U	U	
CIS-1,2-DICHLOROETHENE	2.2	U	U	
CIS-1,3-DICHLOROPROPENE	0.65	U	U	
DICHLORODIFLUOROMETHANE	1.2	U	U	
ETHYLBENZENE	150			
METHYL TERT-BUTYL ETHER	0.85	U	U	
METHYLENE CHLORIDE	3.6	IV	U	A
TETRACHLOROETHENE	0.7	U	U	
TOLUENE	8.4			
TOTAL XYLENES	700			
TRANS-1,2-DICHLOROETHENE	2	U	U	

nsample	NASP18-MW41S-0506
samp_date	5/3/2006
lab_id	0605047-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	1.1	U	U	
TRICHLOROETHENE	1.4	U	U	
TRICHLOROFLUOROMETHANE	0.75	U	U	
VINYL CHLORIDE	0.95	U	U	

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	0605025-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	1.4	U	U	
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	2.4	IV	U	A
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	43		J	G
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	6.4	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	24		J	G
TOTAL XYLENES	1000			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	0605025-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.4	U	U	
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	1.4	U	U	
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	29		J	G
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	5.8	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	17		J	G
TOTAL XYLENES	760			

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.4	U	U	
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.83	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-MW51-0506
samp_date	5/2/2006
lab_id	0605025-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.81	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW51-0506
samp_date	5/2/2006
lab_id	0605025-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-MW58I-0506
samp_date	5/2/2006
lab_id	0605025-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.93	I	J	P
CHLOROMETHANE	0.64	I	U	A
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.89	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-MW58I-0506
samp_date	5/2/2006
lab_id	0605025-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-MW59S-0506
samp_date	5/2/2006
lab_id	0605025-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	1.4	U	U	
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	98			
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	6.6	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	90			
TOTAL XYLENES	2000			

nsample	NASP18-MW59S-0506
samp_date	5/2/2006
lab_id	0605025-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.4	U	U	
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

nsample	TRIP BLANK-050206
samp_date	5/2/2006
lab_id	0605025-14
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	2	IV		
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	
TRANS-1,2-DICHLOROETHENE	0.22	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OV

nsample	TRIP BLANK-050206
samp_date	5/2/2006
lab_id	0605025-14
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	TRIP BLANK-050306
samp_date	5/3/2006
lab_id	0605047-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.15	U	U	
1,1,2,2-TETRACHLOROETHANE	0.22	U	U	
1,1,2-TRICHLOROETHANE	0.17	U	U	
1,1-DICHLOROETHANE	0.15	U	U	
1,1-DICHLOROETHENE	0.42	U	U	
1,2,4-TRICHLOROBENZENE	0.14	U	U	
1,2-DIBROMOETHANE	0.14	U	U	
1,2-DICHLOROBENZENE	0.17	U	U	
1,2-DICHLOROETHANE	0.15	U	U	
1,2-DICHLOROPROPANE	0.18	U	U	
1,3-DICHLOROBENZENE	0.21	U	U	
1,4-DICHLOROBENZENE	0.12	U	U	
2-CHLOROETHYL VINYL ETHER	0.53	U	U	
BENZENE	0.11	U	U	
BROMODICHLOROMETHANE	0.24	U	U	
BROMOFORM	0.24	U	U	
BROMOMETHANE	0.33	U	U	
CARBON TETRACHLORIDE	0.14	U	U	
CHLOROBENZENE	0.28	U	U	
CHLORODIBROMOMETHANE	0.2	U	U	
CHLOROETHANE	0.38	U	U	
CHLOROFORM	0.15	U	U	
CHLOROMETHANE	0.18	U	U	
CIS-1,2-DICHLOROETHENE	0.44	U	U	
CIS-1,3-DICHLOROPROPENE	0.13	U	U	
DICHLORODIFLUOROMETHANE	0.24	U	U	
ETHYLBENZENE	0.14	U	U	
METHYL TERT-BUTYL ETHER	0.17	U	U	
METHYLENE CHLORIDE	0.26	U	U	
TETRACHLOROETHENE	0.14	U	U	
TOLUENE	0.18	U	U	
TOTAL XYLENES	0.21	U	U	

nsample	TRIP BLANK-050306
samp_date	5/3/2006
lab_id	0605047-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.4	U	U	
TRANS-1,3-DICHLOROPROPENE	0.22	U	U	
TRICHLOROETHENE	0.28	U	U	
TRICHLOROFLUOROMETHANE	0.15	U	U	
VINYL CHLORIDE	0.19	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GI27-0506
samp_date	5/3/2006
lab_id	0605047-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.1	V		
2-METHYLNAPHTHALENE	0.82			
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	1.5	V		
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

nsample	NASP18-GI31-0506
samp_date	5/2/2006
lab_id	0605025-03
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.12			
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

nsample	NASP18-GI31-0506DL
samp_date	5/2/2006
lab_id	0605025-03DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	20			
2-METHYLNAPHTHALENE	28			
NAPHTHALENE	41	V		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GM24-0506	nsample	NASP18-GS04-0506	nsample	NASP18-GS06-0506
samp_date	5/2/2006	samp_date	5/3/2006	samp_date	5/3/2006
lab_id	0605025-05	lab_id	0605047-02	lab_id	0605047-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.024	I	U	A
2-METHYLNAPHTHALENE	0.033	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.092	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	6.3	V		
2-METHYLNAPHTHALENE	9			
ACENAPHTHENE	0.12			
ACENAPHTHYLENE	0.0094	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.018	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.013	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	1.7	V		
PHENANTHRENE	0.09			
PYRENE	0.012	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.7	V		
2-METHYLNAPHTHALENE	1.7			
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0085	U	U	
ANTHRACENE	0.0095	U	U	
BENZO(A)ANTHRACENE	0.01	U	U	
BENZO(A)PYRENE	0.0095	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.009	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.012	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	2.9	V		
PHENANTHRENE	0.014	U	U	
PYRENE	0.01	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS19-0506	nsample	NASP18-GS22-0506	nsample	NASP18-GS26-0506
samp_date	5/3/2006	samp_date	5/2/2006	samp_date	5/3/2006
lab_id	0605047-07	lab_id	0605025-06	lab_id	0605047-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.14	V		
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.59	V		
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.018	I	U	A
2-METHYLNAPHTHALENE	0.026	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.092	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	200			
2-METHYLNAPHTHALENE	290			
ACENAPHTHENE	3.2	U	U	
ACENAPHTHYLENE	2.7	U	U	
ANTHRACENE	3	U	U	
BENZO(A)ANTHRACENE	3.4	U	U	
BENZO(A)PYRENE	3	U	U	
BENZO(B)FLUORANTHENE	5.1	U	U	
BENZO(G,H,I)PERYLENE	4.2	U	U	
BENZO(K)FLUORANTHENE	4.2	U	U	
CHRYSENE	2.9	U	U	
DIBENZO(A,H)ANTHRACENE	3.8	U	U	
FLUORANTHENE	3.7	U	U	
FLUORENE	4	U	U	
INDENO(1,2,3-CD)PYRENE	5.8	U	U	
NAPHTHALENE	480			
PHENANTHRENE	4.5	U	U	
PYRENE	3.4	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS30-0506	nsample	NASP18-MW38-0506	nsample	NASP18-MW39-0506
samp_date	5/2/2006	samp_date	5/3/2006	samp_date	5/2/2006
lab_id	0605025-04	lab_id	0605047-06	lab_id	0605025-02
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.018	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.036	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.039	IV	U	A
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.1	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.022	I	U	A
2-METHYLNAPHTHALENE	0.028	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0087	U	U	
ANTHRACENE	0.0097	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0097	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0092	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.064	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

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SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW39-0506-D	nsample	NASP18-MW40-0506	nsample	NASP18-MW41S-0506
samp_date	5/2/2006	samp_date	5/2/2006	samp_date	5/3/2006
lab_id	0605025-10	lab_id	0605025-12	lab_id	0605047-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	NASP18-MW39-0506	DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.019	I	U	A
2-METHYLNAPHTHALENE	0.026	I	J	P
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.073	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.016	I	J	P
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.08	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.009	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0096	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.79			
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
PHENANTHRENE	0.23			
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW41S-0506DL
samp_date	5/3/2006
lab_id	0605047-01DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	58	V		
2-METHYLNAPHTHALENE	82			
NAPHTHALENE	110	V	V	

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	0605025-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.08			
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0085	U	U	
ANTHRACENE	0.0095	U	U	
BENZO(A)ANTHRACENE	0.01	U	U	
BENZO(A)PYRENE	0.0095	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.009	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.012	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
PHENANTHRENE	0.016	I	J	P
PYRENE	0.01	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW49S-0506-DDL
samp_date	5/2/2006
lab_id	0605025-09DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	9.9			
2-METHYLNAPHTHALENE	12			
NAPHTHALENE	26	V		

nsample	NASP18-MW49S-0506DL
samp_date	5/2/2006
lab_id	0605025-01DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	8.1			
2-METHYLNAPHTHALENE	11			
NAPHTHALENE	22			

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.011	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.009	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0096	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.065	V	U	A
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW51-0506
samp_date	5/2/2006
lab_id	0605025-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.017	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0099	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0099	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0094	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.019	U	U	
NAPHTHALENE	0.039	IV	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	U	U	

nsample	NASP18-MW58I-0506
samp_date	5/2/2006
lab_id	0605025-08
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.012	U	U	
2-METHYLNAPHTHALENE	0.019	U	U	
ACENAPHTHENE	0.012	U	U	
ACENAPHTHYLENE	0.01	U	U	
ANTHRACENE	0.011	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.011	U	U	
BENZO(B)FLUORANTHENE	0.019	U	U	
BENZO(G,H,I)PERYLENE	0.015	U	U	
BENZO(K)FLUORANTHENE	0.015	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.014	U	U	
FLUORANTHENE	0.014	U	U	
FLUORENE	0.015	U	U	
INDENO(1,2,3-CD)PYRENE	0.021	U	U	
NAPHTHALENE	0.081	V	U	A
PHENANTHRENE	0.016	U	U	
PYRENE	0.012	U	U	

nsample	NASP18-MW59S-0506
samp_date	5/2/2006
lab_id	0605025-07
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ACENAPHTHENE	0.15			
ACENAPHTHYLENE	0.0092	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.017	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.0098	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.22			
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
PHENANTHRENE	0.015	U	U	
PYRENE	0.011	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-MW59S-0506DL
samp_date	5/2/2006
lab_id	0605025-07DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	25			
2-METHYLNAPHTHALENE	35			
NAPHTHALENE	57	V		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GI27-0506
samp_date	5/3/2006
lab_id	0605047-03
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	3.4			

nsample	NASP18-GI31-0506
samp_date	5/2/2006
lab_id	0605025-03
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.14	IV	U	A

nsample	NASP18-GM24-0506
samp_date	5/2/2006
lab_id	0605025-05
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.15	IV	U	A

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS04-0506	nsample	NASP18-GS06-0506	nsample	NASP18-GS19-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/3/2006
lab_id	0605047-02	lab_id	0605047-05	lab_id	0605047-07
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	1.4			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.45	V	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	2.9			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS22-0506
samp_date	5/2/2006
lab_id	0605025-06
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.18	V	U	A

nsample	NASP18-GS26-0506
samp_date	5/3/2006
lab_id	0605047-04
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	6.7			

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	0605025-04
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	4			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.88			

nsample	NASP18-MW39-0506
samp_date	5/2/2006
lab_id	0605025-02
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.25	V	U	A

nsample	NASP18-MW39-0506-D
samp_date	5/2/2006
lab_id	0605025-10
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	NASP18-MW39-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.41	V	U	A

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW40-0506	nsample	NASP18-MW41S-0506	nsample	NASP18-MW49S-0506
samp_date	5/2/2006	samp_date	5/3/2006	samp_date	5/2/2006
lab_id	0605025-12	lab_id	0605047-01	lab_id	0605025-01
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	2			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	19			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	2.9			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	3.1			

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

nsample	NASP18-MW51-0506
samp_date	5/2/2006
lab_id	0605025-13
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.16	IV	U	A

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-MW58I-0506
samp_date	5/2/2006
lab_id	0605025-08
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.12	IV	U	A

nsample	NASP18-MW59S-0506
samp_date	5/2/2006
lab_id	0605025-07
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	6.2			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-GS04-0506
samp_date	5/3/2006
lab_id	250379815
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	0.68	U	U	
ETHENE	0.38	U	U	

nsample	NASP18-GS04-0506DL1
samp_date	5/3/2006
lab_id	250379815DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	1000	=		

nsample	NASP18-GS06-0506
samp_date	5/3/2006
lab_id	250379816
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	0.68	U	U	
ETHENE	0.38	U	U	
METHANE	10	=	U	A

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-GS19-0506
samp_date	5/3/2006
lab_id	250379818
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	1.2	=		
ETHENE	0.38	U	U	

nsample	NASP18-GS19-0506DL1
samp_date	5/3/2006
lab_id	250379818DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	630	=		

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	250379804
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	1.6	=		
ETHENE	0.38	U	U	
METHANE	270	=		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	250379817
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	10	=		
ETHENE	5.2	=		

nsample	NASP18-MW38-0506DL1
samp_date	5/3/2006
lab_id	250379817DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	980	=		

nsample	NASP18-MW40-0506
samp_date	5/2/2006
lab_id	250379812
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	27	=		
ETHENE	10	=		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-MW40-0506DL1
samp_date	5/2/2006
lab_id	250379812DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	650	=		

nsample	NASP18-MW-41S-0506
samp_date	5/3/2006
lab_id	250379814
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	0.68	U	U	
ETHENE	0.38	U	U	

nsample	NASP18-MW-41S-0506DL1
samp_date	5/3/2006
lab_id	250379814DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	2400	=		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	250379809
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	1.3	=		
ETHENE	0.38	U	U	
METHANE	120	=	J	G

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	250379801
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	0.91	J	J	P
ETHENE	0.38	U	U	
METHANE	78	=	J	G

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	250379811
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	4.7	=		
ETHENE	1.9	=		
METHANE	45	=		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 17, 2006**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – IRON, LEAD, MANGANESE, AND MISC**
CTO- 005 NAS PENSACOLA
SAMPLE DELIVERY GROUP (SDG) – NASP18W003

SAMPLES: 20/Aqueous/

NASP18-GI27-0506	NASP18-GI31-0506	NASP18-GM24-0506
NASP18-GS04-0506	NASP18-GS06-0506	NASP18-GS19-0506
NASP18-GS22-0506	NASP18-GS26-0506	NASP18-GS30-0506
NASP18-MW38-0506	NASP18-MW39-0506	NASP18-MW39-0506-D
NASP18-MW40-0506	NASP18-MW41S-0506	NASP18-MW49S-0506
NASP18-MW49S-0506-D	NASP18-MW50I-0506	NASP18-MW51-0506
NASP18-MW58I-0506	NASP18-MW59S-0506	

Overview

The sample set for CTO 005, NAS Pensacola, SDG NASP18W003 consists of twenty (20) aqueous environmental samples, including two (2) field duplicates. The following field duplicates are included in this SDG: NASP18-MW49S-0506 / NASP18-MW49S-0506-D and NASP18-MW39-0506 / NASP18-MW39-0506-D.

All samples were analyzed for total and dissolved iron and manganese and total lead. Samples NASP18-GS04-0506, NASP18-GS06-0506, NASP18-GS19-0506, NASP18-GS30-0506, NASP18-MW38-0506, NASP18-MW40-0506, NASP18-MW41S-0506, NASP18-MW49S-0506, NASP18-MW49S-0506-D, and NASP18-MW50I-0506 were analyzed for alkalinity, nitrate, nitrite, orthophosphate, sulfate, total Kjeldahl nitrogen (TKN), and total organic carbon (TOC). The samples were collected by Tetra Tech NUS on May 1, 2, and 3, 2006 and analyzed by Empirical Laboratories. All analyses were conducted in accordance with Department of Defense (DoD) Quality Assurance/Quality Control (QA/QC) criteria. Analyses for metals were conducted using SW-846 methods 6010B. Analyses for nitrate, nitrite, sulfate, and orthophosphate were conducted using EPA Method 300.0. Analyses for alkalinity, TKN, and TOC were conducted using EPA Methods 310.1, 351.1, and 415.1, respectively.

The data contained in this SDG were validated with regard to the following parameters:

* • Data Completeness
• Holding Times
* • Calibration Results
* • Blank Results
• Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Holding Times

The TKN hold times for samples NASP18-MW49S-0506, NASP18-GS30-0506, NASP18-MW49S-0506-D, NASP18-MW50I-0506, and NASP18-MW40-0506 were analyzed one day outside of the 28 day hold time. The positive and non-detected TKN results for the aforementioned samples were qualified as estimated (J) and (UJ), respectively.

Field Duplicate Precision

Field duplicate imprecision (RPD > 30%) was noted for filtered manganese in the NASP18-MW49S-0506 / NASP18-MW49S-0506-D field duplicate pair. The positive results reported for filtered manganese in this sample pair only were qualified as estimated, "J".

Detection Limits

Positive results between the Method Detection Limit (MDL) and the Reporting Limit (RL) reported for several metals were qualified as estimated, "J", due to uncertainty near the detection limit.

Additional Comments

Sample NASP18-MW38-0506 required a 2X dilution because of a concentration for orthophosphate greater than the linear range of the instrument.

The laboratory did not analyze samples NASP18-GI27-0506 and NASP18-GS26-0506 for miscellanous inorganic parameters (anions & TOC). The narrative in the data package stated the miscellanous inorganic parameters were cancelled for the aforementioned samples by the project manager.

Analyses for alkalinity and TKN were not summarized on the chain-of-custody documents. The laboratory performed the analyses for these parameters on ten samples. No action was taken on this basis.

Executive Summary

Laboratory Performance Issues: Hold time non-compliances for TKN resulted in qualification of the data for 5 samples.

Other Factors Affecting Data Quality: Positive results between the MDL and the RL reported for several analytes were qualified due to uncertainty near the detection limit. Field duplicate imprecision was noted for filtered manganese in the NASP18-MW49S-0506 / NASP18-MW49S-0506-D field duplicate pair.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Inorganic Data Validation (July, 2002), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Edward Sedlmyer
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GI27-0506	nsample	NASP18-GI31-0506	nsample	NASP18-GM24-0506
samp_date	5/3/2006	samp_date	5/2/2006	samp_date	5/2/2006
lab_id	0605047-03	lab_id	0605025-03	lab_id	0605025-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1120			
LEAD	1.5	U	U	
MANGANESE	10.1	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1250			
LEAD	1.5	U	U	
MANGANESE	23.7			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	115			
LEAD	1.5	U	U	
MANGANESE	69			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS04-0506	nsample	NASP18-GS06-0506	nsample	NASP18-GS19-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/3/2006
lab_id	0605047-02	lab_id	0605047-05	lab_id	0605047-07
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	197			
LEAD	4.3			
MANGANESE	48.8			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	48.7	I		
LEAD	27.1			
MANGANESE	21.7			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	417			
LEAD	1.5	U	U	
MANGANESE	7.8	I		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS22-0506	nsample	NASP18-GS26-0506	nsample	NASP18-GS30-0506
samp_date	5/2/2006	samp_date	5/3/2006	samp_date	5/2/2006
lab_id	0605025-06	lab_id	0605047-04	lab_id	0605025-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	454			
LEAD	1.5	U	U	
MANGANESE	105			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1060			
LEAD	5.7			
MANGANESE	15.8			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	52	I		
LEAD	11.3			
MANGANESE	19.1			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	22000			
LEAD	5.9			
MANGANESE	893			

nsample	NASP18-MW39-0506
samp_date	5/2/2006
lab_id	0605025-02
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	398			
LEAD	1.5	U	U	
MANGANESE	8.3	I		

nsample	NASP18-MW39-0506-D
samp_date	5/2/2006
lab_id	0605025-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW39-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	401			
LEAD	1.5	U	U	
MANGANESE	9.7	I		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW40-0506
samp_date	5/2/2006
lab_id	0605025-12
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	8660			
LEAD	5.4			
MANGANESE	584			

nsample	NASP18-MW41S-0506
samp_date	5/3/2006
lab_id	0605047-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	12200			
LEAD	1.9	I		
MANGANESE	134			

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	0605025-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	171			
LEAD	19.5			
MANGANESE	24.2			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	160			
LEAD	18.8			
MANGANESE	25.4			

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	13600			
LEAD	2.2	I		
MANGANESE	404			

nsample	NASP18-MW51-0506
samp_date	5/2/2006
lab_id	0605025-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	6030			
LEAD	1.5	U	U	
MANGANESE	63.8			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-MW58I-0506	nsample	NASP18-MW59S-0506
samp_date	5/2/2006	samp_date	5/2/2006
lab_id	0605025-08	lab_id	0605025-07
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	11800			
LEAD	1.5	U	U	
MANGANESE	233			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2100			
LEAD	18			
MANGANESE	35.7			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GI27-0506	nsample	NASP18-GI31-0506	nsample	NASP18-GM24-0506
samp_date	5/3/2006	samp_date	5/2/2006	samp_date	5/2/2006
lab_id	0605047-03Solub	lab_id	0605025-03Solub	lab_id	0605025-05Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	976			
MANGANESE	9.2	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	966			
MANGANESE	21.2			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	69.4			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS04-0506
samp_date	5/3/2006
lab_id	0605047-02Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	89.6	I		
MANGANESE	43.4			

nsample	NASP18-GS06-0506
samp_date	5/3/2006
lab_id	0605047-05Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	26.2			

nsample	NASP18-GS19-0506
samp_date	5/3/2006
lab_id	0605047-07Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	388			
MANGANESE	7.5	I		

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS22-0506
samp_date	5/2/2006
lab_id	0605025-06Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	100			

nsample	NASP18-GS26-0506
samp_date	5/3/2006
lab_id	0605047-04Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	985			
MANGANESE	15.4			

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	0605025-04Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	36.6	I		
MANGANESE	19.5			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	10500			
MANGANESE	645			

nsample	NASP18-MW39-0506
samp_date	5/2/2006
lab_id	0605025-02Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	3	U	U	

nsample	NASP18-MW39-0506-D
samp_date	5/2/2006
lab_id	0605025-10Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	NASP18-MW39-0506

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	3	U	U	

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW40-0506	nsample	NASP18-MW41S-0506	nsample	NASP18-MW49S-0506
samp_date	5/2/2006	samp_date	5/3/2006	samp_date	5/2/2006
lab_id	0605025-12Solub	lab_id	0605047-01Solub	lab_id	0605025-01Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1590			
MANGANESE	187			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	11700			
MANGANESE	132			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	114			
MANGANESE	19.8		J	G

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW49S-0506-D	nsample	NASP18-MW50I-0506	nsample	NASP18-MW51-0506
samp_date	5/2/2006	samp_date	5/2/2006	samp_date	5/2/2006
lab_id	0605025-09Solub	lab_id	0605025-11Solub	lab_id	0605025-13Solub
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:	NASP18-MW49S-0506	DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	146			
MANGANESE	27.2		J	G

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	7480			
MANGANESE	304			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	4880			
MANGANESE	57.2			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-MW58I-0506	nsample	NASP18-MW59S-0506
samp_date	5/2/2006	samp_date	5/2/2006
lab_id	0605025-08Solub	lab_id	0605025-07Solub
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	7620			
MANGANESE	187			

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1800			
MANGANESE	38			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MISC

nsample	NASP18-GS04-0506
samp_date	5/3/2006
lab_id	0605047-02
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	95.8			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.061			
SULFATE	MG/L	3.9	I	J	P
TOTAL KJELDAHL NITROGEN	MG/L	2.2			
TOTAL ORGANIC CARBON	MG/L	21.5			

nsample	NASP18-GS06-0506
samp_date	5/3/2006
lab_id	0605047-05
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	1	U	U	
NITRATE-N	MG/L	0.066	I	J	P
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.01	U	U	
SULFATE	MG/L	9			
TOTAL KJELDAHL NITROGEN	MG/L	0.3	U	U	
TOTAL ORGANIC CARBON	MG/L	1.4	I	J	P

nsample	NASP18-GS19-0506
samp_date	5/3/2006
lab_id	0605047-07
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	8			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.019	I	J	P
SULFATE	MG/L	1	U	U	
TOTAL KJELDAHL NITROGEN	MG/L	3.2			
TOTAL ORGANIC CARBON	MG/L	18.4			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MISC

nsample	NASP18-GS30-0506
samp_date	5/2/2006
lab_id	0605025-04
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	9			
NITRATE-N	MG/L	0.3			
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.01	U	U	
SULFATE	MG/L	6.6			
TOTAL KJELDAHL NITROGEN	MG/L	0.3	U	UJ	H
TOTAL ORGANIC CARBON	MG/L	1.6	I	J	P

nsample	NASP18-MW38-0506
samp_date	5/3/2006
lab_id	0605047-06
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	42.9			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.47			
SULFATE	MG/L	1.4	I	J	P
TOTAL KJELDAHL NITROGEN	MG/L	5.6			
TOTAL ORGANIC CARBON	MG/L	14.1			

nsample	NASP18-MW40-0506
samp_date	5/2/2006
lab_id	0605025-12
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	152			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.01	U	U	
SULFATE	MG/L	11			
TOTAL KJELDAHL NITROGEN	MG/L	1.4		J	H
TOTAL ORGANIC CARBON	MG/L	46.2			

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MISC

nsample	NASP18-MW41S-0506
samp_date	5/3/2006
lab_id	0605047-01
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	47.9			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.037			
SULFATE	MG/L	3.1	I	J	P
TOTAL KJELDAHL NITROGEN	MG/L	2			
TOTAL ORGANIC CARBON	MG/L	19.4			

nsample	NASP18-MW49S-0506
samp_date	5/2/2006
lab_id	0605025-01
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	2			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.01	U	U	
SULFATE	MG/L	5.6			
TOTAL KJELDAHL NITROGEN	MG/L	0.69	I	J	HP
TOTAL ORGANIC CARBON	MG/L	1.1	I	J	P

nsample	NASP18-MW49S-0506-D
samp_date	5/2/2006
lab_id	0605025-09
qc_type	NM
Pct_Solids	
DUP_OF:	NASP18-MW49S-0506

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	2			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.01	U	U	
SULFATE	MG/L	6.1			
TOTAL KJELDAHL NITROGEN	MG/L	0.4	I	J	HP
TOTAL ORGANIC CARBON	MG/L	1.3	I	J	P

PROJ_NO: 00140

SDG: NASP18W003 MEDIA: WATER DATA FRACTION: MISC

nsample	NASP18-MW50I-0506
samp_date	5/2/2006
lab_id	0605025-11
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	15			
NITRATE-N	MG/L	0.21			
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.013	I	J	P
SULFATE	MG/L	2.8	I	J	P
TOTAL KJELDAHL NITROGEN	MG/L	1.5		J	H
TOTAL ORGANIC CARBON	MG/L	7.4			

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**G. WALKER**	**DATE:**	**JULY 14, 2006**
FROM:	**KELLY CARPER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH//EDB/TPH/DISSOLVED GASES/METALS/MISC**
CTO 005, NAS PENSACOLA
SDG NASP18W004

SAMPLES: 7/Aqueous/VOC/EDB/PAH/TPH/Total and dissolved Metals

NASP18-GI01-0506	NASP18-GS01-0506	NASP18-GS03-0506
NASP18-GS07-0506	NASP18-GS10-0506	NASP18-GS20-0506
TRIP BLANK-050406		

3/Aqueous/Dissolved gases/MISC

NASP18-GI01-0506	NASP18-GS01-0506	NASP18-GS03-0506

OVERVIEW

The sample set for CTO 005 NAS Pensacola, SDG NASP18W004 consists of one (1) trip blank, and six (6) environmental water samples. All samples were analyzed as indicated above except the trip blanks were only analyzed for volatiles.

The samples were collected by TetraTech NUS on May 3 and 4, 2006 and analyzed by Empirical Laboratories. All analyses were conducted in accordance with SW-846 Methods 8260B (volatile), 8270C (PAHs), 8011 (EDB), 6010B, RSK SOPs 147/175 (dissolved gases), FL-PRO (TRPH), EPA 300 (nitrate, nitrite, and sulfate), EPA 310.1 (alkalinity), EPA 365.2 (ortho-phosphate), EPA 351.2 (TKN), and EPA 415.1 (TOC) analysis and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration
• Blank results
• Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Volatiles

The following compound was detected in aqueous method blank:

Analyte	Maximum Detection ug/L	Action Level ug/L
Methylene chloride	1.9	9.5

Sample aliquot size, and dilution factors were taken into consideration during the application of action limits. Positive results for these compounds reported at concentrations below the action level were qualified, (U), as a result of blank contamination. Methylene chloride was also detected in the trip blanks at a similar

concentration. The trip blank was not qualified for lab method blank contamination.

The matrix spike/matrix spike duplicate analysis of sample NASP18-GS10-0506 yielded a percent recovery (%R) for 2-chloroethylvinyl ether as less than 10%. The nondetected results reported for this compound in the unspiked sample were rejected, qualified (UR).

The continuing calibration run on instrument VOA5 on May 11, 2006 at 12:59 yielded a percent difference (%D) for dichlorodifluoromethane in excess of the 25% (but less than 50%) quality control criteria. No actions were taken as no positive results were reported for this compound in the affected samples.

Samples NASP18-GS01-0506, NASP18-GS03-0506, and NASP18-GS07-0506 were analyzed at 5 fold dilutions. No undiluted analyses were performed. Hence these samples have slightly elevated reporting limits.

PAHs

The following compounds were detected in the aqueous method blank:

Analyte	Maximum Detection ug/L	Action Level ug/L
Naphthalene	0.075	0.375
2-Methylnaphthalene	0.022	0.11

Sample aliquot size, and dilution factors were taken into consideration during the application of action limits. Positive results for these compounds reported at concentrations below the action level were qualified, (U), as a result of blank contamination.

Samples NASP18-GS01-0506 (10X), NASP18-GS03-0506 (20x), and NASP18-GS07-0506 (20x) were reanalyzed at dilutions due to concentrations of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene in excess of the linear calibration range.

The surrogate %Rs for nitrobenzene-d5 were high in the original and diluted analyses of sample NASP18-GS01-0506. The surrogate %Rs for 2-fluorobiphenyl in this sample were zero in both the original and dilution analyses. Additionally, the internal standard area for acenaphthene-d10 was not recovered in the original analysis of this sample but was high in the dilution analysis. The internal standard areas for phenanthrene d-10 (high) and chrysene-d12 (low) were also noncompliant in the original analysis of sample NASP18-GS01-0506. A sample chromatogram provided by the laboratory detailed a very large hydrocarbon envelope which eluted in the middle of the analysis. The high concentration of hydrocarbon contamination is most likely interfering with the surrogates and the internal standards in the undiluted analysis. Therefore, the reviewer has selected the dilution analysis because of the improved recovery of internal standards and sample chromatography. The reporting limits are elevated due to dilution. No actions were taken for the noncompliant surrogate recoveries as they are impacted by the dilution of this sample and no actions were taken for the high internal standard area as this is a limited data review.

The surrogate %Rs for nitrobenzene-d5 were high in the original and diluted analyses of sample NASP18-GS03-0506. The surrogate %Rs for 2-fluorobiphenyl in this sample were zero in both the original and dilution analyses. Additionally, the internal standard area for acenaphthene-d10 was not recovered in the original analysis of this sample but was compliant in the dilution analysis. A sample chromatogram provided by the laboratory detailed a very large hydrocarbon envelope which eluted in the middle of the analysis. The high concentration of hydrocarbon contamination is most likely interfering with the surrogates and the internal standards in the undiluted analysis. Therefore, the reviewer has selected the dilution analysis because of the improved recovery of internal standards and sample chromatography. The reporting limits are elevated due to dilution. No actions were taken for the noncompliant surrogate recoveries as they are impacted by the dilution of this sample.

The internal standard area for acenaphthene-d10 was high in the original analysis of sample NASP18-GS07-0506 but was compliant in the dilution analysis. The surrogate recovery of 2-fluorobiphenyl was zero in the undiluted analysis. A sample chromatogram provided by the laboratory detailed a very large hydrocarbon envelope which eluted in the middle of the analysis. The high concentration of hydrocarbon contamination is most likely interfering with the surrogates and the internal standards in the undiluted analysis. Therefore, the reviewer has selected the dilution analysis because of the improved recovery of internal standards and sample chromatography. The reporting limits are elevated due to dilution. No actions were taken for the noncompliant

surrogate recoveries as they are impacted by the dilution of this sample.

Total Petroleum Hydrocarbons

The following analyte was detected in aqueous method blank:

Analyte	Maximum Detection mg/L	Action Level mg/L
TPH	0.094	0.47

Sample aliquot and dilution factors were taken into consideration during the application of action limits. All positive results for TPH at concentrations less than the action level were qualified undetected (U) as a result of laboratory blank contamination.

Samples NASP18-GS01-0506 (5X) and NASP18-GS07-0506 (2x) were analyzed at dilutions. No undiluted analyses were performed. Hence these samples have slightly elevated reporting limits.

EDB

No problems were noted.

Dissolved gases

The following was detected in aqueous method blank:

Analyte	Maximum Detection ug/L	Action Level ug/L
methane	2.3	11.5

Sample aliquot and dilution factors were taken into consideration during the application of action limits. No actions were required as all methane results were greater than the action level.

Samples NASP18-GI01-0506 (20x), NASP18-GS01-0506-D (100x), and NASP18-GS03-0506 (20x) were reanalyzed at dilutions due to concentrations of methane in excess of the linear calibration range.

Metals

No problems were noted.

MISC

No problems were noted.

TKN was performed at a 2x dilution and TOC at a 5x dilution in sample NASP18-GS01-0506.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride, naphthalene, 1-methlnaphthalene, TRPH, and methane were detected in lab method blanks. Surrogate and internal standard noncompliances were noted in several PAH samples.

Other Factors Affecting Data Quality: Several samples were reported at dilutions and no undiluted analyses were performed resulting in elevated detection limits.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Evaluating Environmental Laboratories (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

for Kelly A. Carper
Environmental Scientist

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GI01-0506	nsample	NASP18-GI01-0506	nsample	NASP18-GS01-0506
samp_date	5/4/2006	samp_date	5/4/2006	samp_date	5/4/2006
lab_id	0605068-03	lab_id	0605068-03	lab_id	0605068-04
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	3.4			
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.71	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	420			
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	60			
METHYL TERT-BUTYL ETHER	1.8	I	J	P
METHYLENE CHLORIDE	8.8	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	3.9	I	J	P
TOTAL XYLENES	240			

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS01-0506
samp_date	5/4/2006
lab_id	0605068-04
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.9	I	J	P
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

nsample	NASP18-GS03-0506
samp_date	5/4/2006
lab_id	0605068-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0075	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	1.4	U	U	
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	140			
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	8.9	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	53			
TOTAL XYLENES	2500			

nsample	NASP18-GS03-0506
samp_date	5/4/2006
lab_id	0605068-05
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	2.8	I	J	P
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS07-0506	nsample	NASP18-GS07-0506	nsample	NASP18-GS10-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/3/2006
lab_id	0605068-02	lab_id	0605068-02	lab_id	0605068-01
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1.4	U	U	
1,1,2,2-TETRACHLOROETHANE	1	U	U	
1,1,2-TRICHLOROETHANE	0.9	U	U	
1,1-DICHLOROETHANE	1.4	U	U	
1,1-DICHLOROETHENE	1.2	U	U	
1,2,4-TRICHLOROBENZENE	1.8	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	1.5	U	U	
1,2-DICHLOROETHANE	1	U	U	
1,2-DICHLOROPROPANE	1	U	U	
1,3-DICHLOROBENZENE	1.1	U	U	
1,4-DICHLOROBENZENE	1.8	U	U	
2-CHLOROETHYL VINYL ETHER	1.4	U	U	
BENZENE	9.6			
BROMODICHLOROMETHANE	1.4	U	U	
BROMOFORM	0.5	U	U	
BROMOMETHANE	1.9	U	U	
CARBON TETRACHLORIDE	1.3	U	U	
CHLOROBENZENE	1.6	U	U	
CHLORODIBROMOMETHANE	1	U	U	
CHLOROETHANE	2.2	U	U	
CHLOROFORM	1	U	U	
CHLOROMETHANE	1.2	U	U	
CIS-1,2-DICHLOROETHENE	1.4	U	U	
CIS-1,3-DICHLOROPROPENE	1.4	U	U	
DICHLORODIFLUOROMETHANE	1.6	U	U	
ETHYLBENZENE	190			
METHYL TERT-BUTYL ETHER	1.2	U	U	
METHYLENE CHLORIDE	7	IV	U	A
TETRACHLOROETHENE	1.5	U	U	
TOLUENE	10			
TOTAL XYLENES	1100			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	1.1	U	U	
TRANS-1,3-DICHLOROPROPENE	1.2	U	U	
TRICHLOROETHENE	1.9	I	J	P
TRICHLOROFLUOROMETHANE	1.8	U	U	
VINYL CHLORIDE	1.8	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	UR	D
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.8	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OV

nsample	NASP18-GS10-0506
samp_date	5/3/2006
lab_id	0605068-01
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

nsample	NASP18-GS20-0506
samp_date	5/4/2006
lab_id	0605068-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DIBROMOETHANE	0.0076	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	0.73	IV	U	A
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	

nsample	NASP18-GS20-0506
samp_date	5/4/2006
lab_id	0605068-06
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,2-DICHLOROETHENE	0.22	U	U	
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OV

nsample	Trip Blank-050406	nsample	Trip Blank-050406
samp_date	5/4/2006	samp_date	5/4/2006
lab_id	0605068-07	lab_id	0605068-07
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	0.27	U	U	
1,1,2,2-TETRACHLOROETHANE	0.2	U	U	
1,1,2-TRICHLOROETHANE	0.18	U	U	
1,1-DICHLOROETHANE	0.29	U	U	
1,1-DICHLOROETHENE	0.25	U	U	
1,2,4-TRICHLOROBENZENE	0.36	U	U	
1,2-DICHLOROBENZENE	0.3	U	U	
1,2-DICHLOROETHANE	0.2	U	U	
1,2-DICHLOROPROPANE	0.21	U	U	
1,3-DICHLOROBENZENE	0.22	U	U	
1,4-DICHLOROBENZENE	0.35	U	U	
2-CHLOROETHYL VINYL ETHER	0.28	U	U	
BENZENE	0.29	U	U	
BROMODICHLOROMETHANE	0.28	U	U	
BROMOFORM	0.1	U	U	
BROMOMETHANE	0.38	U	U	
CARBON TETRACHLORIDE	0.26	U	U	
CHLOROBENZENE	0.31	U	U	
CHLORODIBROMOMETHANE	0.21	U	U	
CHLOROETHANE	0.45	U	U	
CHLOROFORM	0.21	U	U	
CHLOROMETHANE	0.25	U	U	
CIS-1,2-DICHLOROETHENE	0.28	U	U	
CIS-1,3-DICHLOROPROPENE	0.29	U	U	
DICHLORODIFLUOROMETHANE	0.31	U	U	
ETHYLBENZENE	0.3	U	U	
METHYL TERT-BUTYL ETHER	0.24	U	U	
METHYLENE CHLORIDE	1.1	IV	J	P
TETRACHLOROETHENE	0.3	U	U	
TOLUENE	0.3	U	U	
TOTAL XYLENES	0.33	U	U	
TRANS-1,2-DICHLOROETHENE	0.22	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TRANS-1,3-DICHLOROPROPENE	0.24	U	U	
TRICHLOROETHENE	0.27	U	U	
TRICHLOROFLUOROMETHANE	0.37	U	U	
VINYL CHLORIDE	0.36	U	U	

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GI01-0506	nsample	NASP18-GS01-0506	nsample	NASP18-GS03-0506
samp_date	5/4/2006	samp_date	5/4/2006	samp_date	5/4/2006
lab_id	0605068-03	lab_id	0605068-04	lab_id	0605068-05
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.2	V	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	41			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	18			

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: PET

nsample	NASP18-GS07-0506	nsample	NASP18-GS10-0506	nsample	NASP18-GS20-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/4/2006
lab_id	0605068-02	lab_id	0605068-01	lab_id	0605068-06
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	30			

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.089	IV	U	A

Parameter	Result	Lab Qual	Val Qual	Qual Code
TPH (C08-C40)	0.26	V	U	A

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GI01-0506	nsample	NASP18-GS01-0506DL	nsample	NASP18-GS03-0506DL
samp_date	5/4/2006	samp_date	5/4/2006	samp_date	5/4/2006
lab_id	0605068-03	lab_id	0605068-04DL	lab_id	0605068-05DL
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.01	U	U	
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.097	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.025	I	J	P

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	11			
2-METHYLNAPHTHALENE	15			
ACENAPHTHENE	0.1	U	U	
ACENAPHTHYLENE	0.085	U	U	
ANTHRACENE	0.095	U	U	
BENZO(A)ANTHRACENE	0.1	U	U	
BENZO(A)PYRENE	0.095	U	U	
BENZO(B)FLUORANTHENE	0.16	U	U	
BENZO(G,H,I)PERYLENE	0.13	U	U	
BENZO(K)FLUORANTHENE	0.13	U	U	
CHRYSENE	0.09	U	U	
DIBENZO(A,H)ANTHRACENE	0.12	U	U	
FLUORANTHENE	0.12	U	U	
FLUORENE	0.12	U	U	
INDENO(1,2,3-CD)PYRENE	0.18	U	U	
NAPHTHALENE	52			
PHENANTHRENE	0.14	U	U	
PYRENE	0.1	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	16			
2-METHYLNAPHTHALENE	21			
ACENAPHTHENE	0.2	U	U	
ACENAPHTHYLENE	0.17	U	U	
ANTHRACENE	0.19	U	U	
BENZO(A)ANTHRACENE	0.21	U	U	
BENZO(A)PYRENE	0.19	U	U	
BENZO(B)FLUORANTHENE	0.33	U	U	
BENZO(G,H,I)PERYLENE	0.26	U	U	
BENZO(K)FLUORANTHENE	0.26	U	U	
CHRYSENE	0.18	U	U	
DIBENZO(A,H)ANTHRACENE	0.24	U	U	
FLUORANTHENE	0.23	U	U	
FLUORENE	0.26	U	U	
INDENO(1,2,3-CD)PYRENE	0.37	U	U	
NAPHTHALENE	32			
PHENANTHRENE	0.42	I	J	P
PYRENE	0.21	U	U	

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: PAH

nsample	NASP18-GS07-0506DL	nsample	NASP18-GS10-0506	nsample	NASP18-GS20-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/4/2006
lab_id	0605068-02DL	lab_id	0605068-01	lab_id	0605068-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	39			
2-METHYLNAPHTHALENE	52			
ACENAPHTHENE	0.21	U	U	
ACENAPHTHYLENE	0.18	U	U	
ANTHRACENE	0.2	U	U	
BENZO(A)ANTHRACENE	0.22	U	U	
BENZO(A)PYRENE	0.2	U	U	
BENZO(B)FLUORANTHENE	0.33	U	U	
BENZO(G,H,I)PERYLENE	0.27	U	U	
BENZO(K)FLUORANTHENE	0.27	U	U	
CHRYSENE	0.19	U	U	
DIBENZO(A,H)ANTHRACENE	0.25	U	U	
FLUORANTHENE	0.24	U	U	
FLUORENE	0.26	U	U	
INDENO(1,2,3-CD)PYRENE	0.38	U	U	
NAPHTHALENE	99			
PHENANTHRENE	0.29	U	U	
PYRENE	0.22	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.013	I	J	P
2-METHYLNAPHTHALENE	0.022	IV	U	A
ACENAPHTHENE	0.011	U	U	
ACENAPHTHYLENE	0.0094	U	U	
ANTHRACENE	0.01	U	U	
BENZO(A)ANTHRACENE	0.012	U	U	
BENZO(A)PYRENE	0.01	U	U	
BENZO(B)FLUORANTHENE	0.018	U	U	
BENZO(G,H,I)PERYLENE	0.014	U	U	
BENZO(K)FLUORANTHENE	0.014	U	U	
CHRYSENE	0.01	U	U	
DIBENZO(A,H)ANTHRACENE	0.013	U	U	
FLUORANTHENE	0.013	U	U	
FLUORENE	0.014	U	U	
INDENO(1,2,3-CD)PYRENE	0.02	U	U	
NAPHTHALENE	0.098	V	U	A
PHENANTHRENE	0.016	U	U	
PYRENE	0.012	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.14			
2-METHYLNAPHTHALENE	0.016	U	U	
ACENAPHTHENE	0.01	U	U	
ACENAPHTHYLENE	0.0088	U	U	
ANTHRACENE	0.0098	U	U	
BENZO(A)ANTHRACENE	0.011	U	U	
BENZO(A)PYRENE	0.0098	U	U	
BENZO(B)FLUORANTHENE	0.016	U	U	
BENZO(G,H,I)PERYLENE	0.013	U	U	
BENZO(K)FLUORANTHENE	0.013	U	U	
CHRYSENE	0.0093	U	U	
DIBENZO(A,H)ANTHRACENE	0.012	U	U	
FLUORANTHENE	0.012	U	U	
FLUORENE	0.013	U	U	
INDENO(1,2,3-CD)PYRENE	0.018	U	U	
NAPHTHALENE	0.063	V	U	A
PHENANTHRENE	0.014	U	U	
PYRENE	0.011	I	J	P

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-GI01-0506	nsample	NASP18-GI01-0506DL1	nsample	NASP18-GS01-0506
samp_date	5/4/2006	samp_date	5/4/2006	samp_date	5/4/2006
lab_id	250381803	lab_id	250381803DL1	lab_id	250381804
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	0.89	I	J	P
ETHENE	0.38	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	520			

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	5.3			
ETHENE	0.61	I	J	P

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: OVG

nsample	NASP18-GS01-0506DL
samp_date	5/4/2006
lab_id	250381804DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	3500			

nsample	NASP18-GS03-0506
samp_date	5/4/2006
lab_id	250381805
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
ETHANE	2			
ETHENE	0.38	U	U	

nsample	NASP18-GS03-0506DL1
samp_date	5/4/2006
lab_id	250381805DL1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
METHANE	730			

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GI01-0506	nsample	NASP18-GS01-0506	nsample	NASP18-GS03-0506
samp_date	5/4/2006	samp_date	5/4/2006	samp_date	5/4/2006
lab_id	0605068-03	lab_id	0605068-04	lab_id	0605068-05
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1620			
LEAD	1.5	U	U	
MANGANESE	5	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	408			
LEAD	23.5			
MANGANESE	9.3	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	764			
LEAD	35.4			
MANGANESE	23.1			

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: M

nsample	NASP18-GS07-0506	nsample	NASP18-GS10-0506	nsample	NASP18-GS20-0506
samp_date	5/3/2006	samp_date	5/3/2006	samp_date	5/4/2006
lab_id	0605068-02	lab_id	0605068-01	lab_id	0605068-06
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2470			
LEAD	5.4			
MANGANESE	7.4	I		

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1140			
LEAD	1.5	U	U	
MANGANESE	3	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	759			
LEAD	1.5	U	U	
MANGANESE	14.8	I		

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GI01-0506
samp_date	5/4/2006
lab_id	0605068-03Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	1420			
MANGANESE	4.8	I		

nsample	NASP18-GS01-0506
samp_date	5/4/2006
lab_id	0605068-04Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	310			
MANGANESE	7.6	I		

nsample	NASP18-GS03-0506
samp_date	5/4/2006
lab_id	0605068-05Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	599			
MANGANESE	20.6			

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: MF

nsample	NASP18-GS07-0506
samp_date	5/3/2006
lab_id	0605068-02Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	2300			
MANGANESE	7.3	I		

nsample	NASP18-GS10-0506
samp_date	5/3/2006
lab_id	0605068-01Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	30	U	U	
MANGANESE	3	U	U	

nsample	NASP18-GS20-0506
samp_date	5/4/2006
lab_id	0605068-06Solub
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
IRON	628			
MANGANESE	13.6	I		

PROJ_NO: 00140

SDG: NASP18W004 MEDIA: WATER DATA FRACTION: MISC

nsample	NASP18-GI01-0506
samp_date	5/4/2006
lab_id	0605068-03
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	13			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.043			
SULFATE	MG/L	5.3			
TOTAL KJELDAHL NITROGEN	MG/L	0.87	I	J	P
TOTAL ORGANIC CARBON	MG/L	3.2			

nsample	NASP18-GS01-0506
samp_date	5/4/2006
lab_id	0605068-04
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	264			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.024	I	J	P
SULFATE	MG/L	11.7			
TOTAL KJELDAHL NITROGEN	MG/L	24.4			
TOTAL ORGANIC CARBON	MG/L	136			

nsample	NASP18-GS03-0506
samp_date	5/4/2006
lab_id	0605068-05
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Lab Qual	Val Qual	Qual Code
ALKALINITY	MG/L	4.5			
NITRATE-N	MG/L	0.05	U	U	
NITRITE-N	MG/L	0.05	U	U	
ORTHOPHOSPHATE-P	MG/L	0.14			
SULFATE	MG/L	1	U	U	
TOTAL KJELDAHL NITROGEN	MG/L	0.47	I	J	P
TOTAL ORGANIC CARBON	MG/L	17.4			

APPENDIX E

MONITORING WELL SURVEY DATA

NAVAL AIR STATION PENSACOLA

ESCAMBIA COUNTY, FLORIDA

UST SITE 18 - MONITORING WELL SURVEY

Prepared for Tetra Tech NUS, Inc.
Prepared by Island Surveying & Mapping Co.
July 7, 2006

NAME	NORTHING	EASTING	ELEVATIONS	
			GROUND	TOC
18-MW-32S	500,394.25	1,078,860.91	27.8	27.54
18-MW-33I	500,399.43	1,078,861.72	27.8	27.63
18-MW-34D	500,404.50	1,078,862.34	27.8	27.58
18-MW-35I	500,807.04	1,078,611.83	27.8	27.47
18-MW-36S	500,946.94	1,078,531.40	26.3	25.93
18-MW-37S	501,181.20	1,078,324.92	26.8	26.46
18-MW-38I	500,901.94	1,078,321.74	26.3	25.91
18-MW-39DD	500,912.66	1,078,345.61	25.6	25.27
18-MW-40I	500,597.73	1,078,345.10	25.2	24.77
18-MW-41S	500,829.02	1,078,060.25	28.7	28.50
18-MW-42I	500,833.46	1,078,060.62	28.8	28.53
18-MW-43D	500,837.59	1,078,060.85	28.7	28.57
18-MW-44S	500,917.20	1,077,738.68	27.4	27.22
18-MW-45I	500,915.73	1,077,733.50	27.5	26.93
18-MW-46I	500,187.23	1,078,532.90	27.8	27.36
18-MW-47I	500,072.85	1,078,266.47	24.9	24.59
18-MW-48I	499,858.97	1,078,233.66	25.0	24.68
18-MW-49S	499,425.25	1,078,055.61	26.8	26.50
18-MW-50I	499,434.87	1,078,056.96	26.8	26.48
18-MW-51D	499,440.76	1,078,057.77	26.9	26.61
18-MW-52S	499,359.53	1,078,347.89	26.0	25.90
18-MW-53I	499,363.75	1,078,348.34	26.1	25.93
18-MW-54I	499,098.79	1,078,368.12	27.7	27.43
18-MW-55D	499,094.51	1,078,367.70	27.7	27.40
18-MW-56S	499,625.44	1,078,181.88	25.6	25.31
18-MW-57I	499,630.32	1,078,182.29	25.6	25.32
18-MW-58I	498,993.42	1,078,107.73	25.1	25.07
18-MW-59S	499,228.30	1,078,178.37	24.4	24.20

NOTES:
COORDINATES ARE FLORIDA STATE PLANE, NORTH ZONE, NAD 83/90
ELEVATIONS ARE RERENCED TO EXISTING BENCHMARK #1060, ELEV.=27.19

REVISED: 8/09/06 - ADJUST HORIZONTAL DATUM

APPENDIX F

GROUNDWATER SCREENING RESULTS

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/101-10	NASP18GW-DPT/101-20	NASP18GW-DPT/101-30	NASP18GW-DPT/101-40	NASP18GW-DPT/101-55	NASP18GW-DPT/102-15
Sample Date			02/09/06	02/09/06	02/09/06	02/09/06	02/09/06	03/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	6.5	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	2	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	8.5	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/102-35	NASP18GW-DPT/102-55	NASP18GW-DPT/102-75	NASP18GW-DPT/103-15	NASP18GW-DPT/103-35	NASP18GW-DPT/103-55
Sample Date			03/13/06	03/13/06	03/13/06	03/13/06	03/13/06	03/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/103-75	NASP18GW-DPT/104-15	NASP18GW-DPT/104-35	NASP18GW-DPT/104-55	NASP18GW-DPT/104-75	NASP18GW-DPT/105-15
Sample Date			03/13/06	03/13/06	03/13/06	03/13/06	03/13/06	03/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	2 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1.2	1 U	1.1	1 U	1.3	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/105-35	NASP18GW-DPT/105-55	NASP18GW-DPT/105-75	NASP18GW-DPT/106-15	NASP18GW-DPT/106-30	NASP18GW-DPT/106-55
Sample Date			03/13/06	03/13/06	03/13/06	03/14/06	03/14/06	03/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.4**	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1.2	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2.4	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1.2	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	3.9	1 U	1.3	1 U	1 U	1 U
XYLENES, TOTAL	20	200	3.6	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/106-75	NASP18GW-DPT/107-15	NASP18GW-DPT/107-35	NASP18GW-DPT/107-55	NASP18GW-DPT/108-15	NASP18GW-DPT/108-35
Sample Date			03/14/06	03/15/06	03/15/06	03/15/06	03/16/06	03/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	**10.4**	**14.7**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	12.3	15.4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	3.5	4.7
TOLUENE	40	400	1 U	1 U	1 U	1 U	1.4	1.4
XYLENES, TOTAL	20	200	ND	ND	ND	ND	15.8	**20.1**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/108-55	NASP18GW-DPT/109-15	NASP18GW-DPT/109-35	NASP18GW-DPT/109-55	NASP18GW-DPT/110-15	NASP18GW-DPT/110-35
Sample Date			03/16/06	03/16/06	03/16/06	03/16/06	03/17/06	03/17/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**2.5**	**1.4**	**31.9**	**10.3**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	28.2	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	3.6	35.6	2 U	2 U	4.1
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	7.9 U	1 U	1 U	1.3
TOLUENE	40	400	1 U	1 U	1.7	1	1 U	1 U
XYLENES, TOTAL	20	200	ND	3.6	**35.6**	ND	ND	5.4

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/110-55	NASP18GW-DPT/111-15	NASP18GW-DPT/111-35	NASP18GW-DPT/111-55	NASP18GW-DPT/112-15	NASP18GW-DPT/112-35
Sample Date			03/17/06	03/17/06	03/17/06	03/17/06	03/17/06	03/17/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/112-55	NASP18GW-DPT/113-30	NASP18GW-DPT/A11-10	NASP18GW-DPT/A11-20	NASP18GW-DPT/A11-30	NASP18GW-DPT/A11-40
Sample Date			03/17/06	03/22/06	02/07/06	02/07/06	02/07/06	02/07/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	6.8	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5.9	5 U
BENZENE	1	100	1 U	**2.7**	**1.9**	**2.9**	**8.3**	**14**
ETHYLBENZENE	30	300	1 U	3.2	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	6.3	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	2.9	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	4.5	1 U	1 U	3.8	1 U
XYLENES, TOTAL	20	200	ND	9.2	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A11-55	NASP18GW-DPT/A12-10	NASP18GW-DPT/A12-20	NASP18GW-DPT/A12-30	NASP18GW-DPT/A12-40	NASP18GW-DPT/A12-55
Sample Date			02/07/06	02/07/06	02/07/06	02/07/06	02/07/06	02/07/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	**1.8**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	3.9	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	4.9	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A13-10	NASP18GW-DPT/A13-20	NASP18GW-DPT/A13-30	NASP18GW-DPT/A13-40	NASP18GW-DPT/A13-55	NASP18GW-DPT/A19-15
Sample Date			02/07/06	02/07/06	02/07/06	02/07/06	02/07/06	03/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A19-35	NASP18GW-DPT/A19-55	NASP18GW-DPT/A19-75	NASP18GW-DPT/A23-15	NASP18GW-DPT/A23-35	NASP18GW-DPT/A23-55
Sample Date			03/16/06	03/16/06	03/16/06	03/19/06	03/19/06	03/19/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	**2.2**	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1.1	1 U	2	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A23-75	NASP18GW-DPT/A27-15	NASP18GW-DPT/A27-35	NASP18GW-DPT/A27-55	NASP18GW-DPT/A37-10	NASP18GW-DPT/A37-20
Sample Date			03/19/06	03/18/06	03/18/06	03/18/06	02/16/06	02/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A37-30	NASP18GW-DPT/A37-40	NASP18GW-DPT/A37-55	NASP18GW-DPT/A51-15	NASP18GW-DPT/A51-35	NASP18GW-DPT/A51-55
Sample Date			02/16/06	02/16/06	02/16/06	03/14/06	03/14/06	03/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**1.9**	**2.5**	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2	2.2	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1.6	1.8	1.2	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	2	2.2	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/A51-75	NASP18GW-DPT/A6-10	NASP18GW-DPT/A6-20	NASP18GW-DPT/A6-30	NASP18GW-DPT/A6-40	NASP18GW-DPT/A6-55
Sample Date			03/14/06	02/09/06	02/09/06	02/09/06	02/09/06	02/09/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/B13 - 15	NASP18GW-DPT/B13 - 35	NASP18GW-DPT/B13 - 55	NASP18GW-DPT/B13-15	NASP18GW-DPT/B13-35	NASP18GW-DPT/B13-55
Sample Date			03/22/06	03/22/06	03/22/06	03/22/06	03/22/06	03/22/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**1.8**	**1.7**	1 U	**1.8**	**1.7**
ETHYLBENZENE	30	300	1 U	2.1	2.5	1 U	2.1	2.5
M+P-XYLENES	NC	NC	2 U	13.5	16.6	2 U	13.5	16.6
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	5	6	1 U	5	6
TOLUENE	40	400	1 U	1.3	1.2	1 U	1.3	1.2
XYLENES, TOTAL	20	200	ND	18.5	**22.6**	ND	18.5	**22.6**

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/B35-15	NASP18GW-DPT/B35-35	NASP18GW-DPT/B35-55	NASP18GW-DPT/B40-15	NASP18GW-DPT/B40-35	NASP18GW-DPT/B40-55
Sample Date			03/21/06	03/21/06	03/21/06	03/16/06	03/16/06	03/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	**1.3**	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2.2	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1	1 U	1 U	1 U
TOLUENE	40	400	1 U	1.1	1.7	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	3.2	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/B40-75	NASP18GW-DPT/B9-10	NASP18GW-DPT/B9-20	NASP18GW-DPT/B9-30	NASP18GW-DPT/B9-40	NASP18GW-DPT/B9-55
Sample Date			03/16/06	02/09/06	02/09/06	02/09/06	02/09/06	02/09/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	**4.5**
ETHYLBENZENE	30	300	1 U	1 U	1 U	2.8	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2.3	16.9	101	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	2.5	2.4	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	2.3	19.4	**103.4**	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C15-10	NASP18GW-DPT/C15-20	NASP18GW-DPT/C15-30	NASP18GW-DPT/C15-40	NASP18GW-DPT/C15-55	NASP18GW-DPT/C19-10
Sample Date			02/09/06	02/09/06	02/09/06	02/09/06	02/09/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	**66**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	**74**
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	5 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	**120**
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2.4	1800
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	25 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	**93**
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	940
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	**110**
XYLENES, TOTAL	20	200	ND	ND	ND	ND	2.4	**2740**

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C19-20	NASP18GW-DPT/C19-30	NASP18GW-DPT/C19-40	NASP18GW-DPT/C19-55	NASP18GW-DPT/C22-15	NASP18GW-DPT/C22-35
Sample Date			02/12/06	02/12/06	02/12/06	02/12/06	03/22/06	03/22/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**2.6**	1 U	**1.1**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1.5	1 U	2.3	1	1 U
M+P-XYLENES	NC	NC	2 U	5.9	4.6	6.6	2.2	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	2.5	1.2	2.4	1 U	1 U
TOLUENE	40	400	1 U	5.2	1.5	3.8	1.3	1.3
XYLENES, TOTAL	20	200	ND	8.4	5.8	9	2.2	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C22-55	NASP18GW-DPT/C24-10	NASP18GW-DPT/C24-20	NASP18GW-DPT/C24-30	NASP18GW-DPT/C24-40	NASP18GW-DPT/C24-55
Sample Date			03/22/06	02/16/06	02/16/06	02/16/06	02/16/06	02/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	**1.6**	**6.3**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2.1	2.6	2 U	2 U	2 U	4.7
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1.3
TOLUENE	40	400	1	1 U	1 U	1.2	1.9	1.6
XYLENES, TOTAL	20	200	2.1	2.6	ND	ND	ND	6

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C37-10	NASP18GW-DPT/C37-20	NASP18GW-DPT/C37-30	NASP18GW-DPT/C37-40	NASP18GW-DPT/C37-55	NASP18GW-DPT/C43-10
Sample Date			02/15/06	02/15/06	02/15/06	02/15/06	02/15/06	02/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**69**	5.2	20.1	**520**	**820**	5 U
2-METHYLNAPHTHALENE	28	280	**79**	6.8	22.9	**690**	**1100**	5 U
BENZENE	1	100	2 U	1 U	1 U	20 U	20 U	1 U
ETHYLBENZENE	30	300	25	1 U	3.8	**110**	**100**	1 U
M+P-XYLENES	NC	NC	620	19.8	76	2500	2400	2 U
METHYL TERT-BUTYL ETHER	20	200	10 U	5 U	5 U	100 U	100 U	5 U
NAPHTHALENE	14	140	**54**	5 U	8.6	**300**	**360**	5 U
O-XYLENE	NC	NC	110	3.3	13.4	460	420	1 U
TOLUENE	40	400	2 U	1 U	2	20 U	20 U	1 U
XYLENES, TOTAL	20	200	**730**	**23.1**	**89.4**	**2960**	**2820**	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C43-20	NASP18GW-DPT/C43-30	NASP18GW-DPT/C43-40	NASP18GW-DPT/C43-55	NASP18GW-DPT/C46-15	NASP18GW-DPT/C46-35
Sample Date			02/16/06	02/16/06	02/16/06	02/16/06	03/14/06	03/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**1.4**	**1.5**	**8**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	2.3	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2.3	3.8	13.2	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	2.3	1 U	1 U
TOLUENE	40	400	1 U	1.4	2	3.8	1 U	1 U
XYLENES, TOTAL	20	200	ND	2.3	3.8	15.5	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C46-55	NASP18GW-DPT/C46-75	NASP18GW-DPT/C5-10	NASP18GW-DPT/C5-20	NASP18GW-DPT/C5-30	NASP18GW-DPT/C5-35
Sample Date			03/14/06	03/14/06	02/12/06	02/12/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	12.7	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	10.1	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1.3	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	21.2	2 U	2.6	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	6.6	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1.9	1 U	1.1	1
XYLENES, TOTAL	20	200	ND	ND	**27.8**	ND	2.6	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/C5-40	NASP18GW-DPT/C5-55	NASP18GW-DPT/C5-55	NASP18GW-DPT/D10 - 15	NASP18GW-DPT/D10 - 35	NASP18GW-DPT/D10 - 55
Sample Date			02/12/06	02/12/06	02/12/06	03/22/06	03/22/06	03/22/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	10.1	**37.5**	24.8
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	12.2	**45.3**	**28.8**
BENZENE	1	100	1	**3.8**	**1.1**	**1.7**	**25.3**	**1.5**
ETHYLBENZENE	30	300	1 U	2.9	1 U	1 U	1.2	1 U
M+P-XYLENES	NC	NC	2.4	8.4	2 U	12	9.4	6.6
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	9.9	6.6
O-XYLENE	NC	NC	1 U	3	1 U	5	2	1.5
TOLUENE	40	400	2	3.3	1.2	1 U	1.4	1 U
XYLENES, TOTAL	20	200	2.4	11.4	ND	17	11.4	8.1

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/D10 - 75	NASP18GW-DPT/D26-15	NASP18GW-DPT/D26-35	NASP18GW-DPT/D26-55	NASP18GW-DPT/D29-15	NASP18GW-DPT/D29-35
Sample Date			03/22/06	03/19/06	03/19/06	03/19/06	03/19/06	03/19/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**65.1**	5 U	5 U	5 U	7.7	6.7
2-METHYLNAPHTHALENE	28	280	**76.4**	5 U	5 U	5 U	7.2	5.9
BENZENE	1	100	**9.8**	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	2.4	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	23.8	2 U	2 U	2 U	2.7	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**21.8**	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	5.5	1 U	1 U	1 U	1.2	1 U
TOLUENE	40	400	3.5	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**29.3**	ND	ND	ND	3.9	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/D29-55	NASP18GW-DPT/E17-15	NASP18GW-DPT/E17-35	NASP18GW-DPT/E17-55	NASP18GW-DPT/E34-10	NASP18GW-DPT/E34-20
Sample Date			03/19/06	03/19/06	03/19/06	03/19/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	11.8	**190**	**120**	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	9.8	**200**	**130**	5 U	5 U
BENZENE	1	100	1 U	1 U	20 U	**3.8**	1 U	1 U
ETHYLBENZENE	30	300	1 U	3.5	23	**35.7**	1 U	1 U
M+P-XYLENES	NC	NC	2 U	26.8	170	160	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	100 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5.4	100 U	**52.4**	5 U	5 U
O-XYLENE	NC	NC	1 U	13	86	81	1 U	1 U
TOLUENE	40	400	1 U	1.4	20 U	6.7	1 U	1 U
XYLENES, TOTAL	20	200	ND	**39.8**	**256**	**241**	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E34-30	NASP18GW-DPT/E34-40	NASP18GW-DPT/E34-55	NASP18GW-DPT/E37-10	NASP18GW-DPT/E37-20	NASP18GW-DPT/E37-30
Sample Date			02/15/06	02/15/06	02/15/06	02/14/06	02/14/06	02/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	**240**	**170**	**160**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	**280**	**220**	**210**
BENZENE	1	100	1 U	1 U	1 U	10 U	10 U	10 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	**160**	**54**	**57**
M+P-XYLENES	NC	NC	2 U	2 U	2.7	1600	570	620
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	50 U	50 U	50 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**350**	**130**	**120**
O-XYLENE	NC	NC	1 U	1 U	1	660	200	210
TOLUENE	40	400	1 U	1 U	1.6	**450**	**59**	**69**
XYLENES, TOTAL	20	200	ND	ND	3.7	**2260**	**770**	**830**

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E37-40	NASP18GW-DPT/E37-55	NASP18GW-DPT/E40-10	NASP18GW-DPT/E40-20	NASP18GW-DPT/E40-30	NASP18GW-DPT/E40-40
Sample Date			02/14/06	02/14/06	02/15/06	02/15/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**220**	**570**	**92**	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**300**	**740**	**110**	6.2	5 U	5.6
BENZENE	1	100	10 U	10 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	**72**	**240**	**75**	2.8	1 U	1.4
M+P-XYLENES	NC	NC	770	2500 L	1300	48.4	11.1	23.8
METHYL TERT-BUTYL ETHER	20	200	50 U	50 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**160**	**510**	**150**	5 U	5 U	5 U
O-XYLENE	NC	NC	260	900	370	11.8	2.7	6.1
TOLUENE	40	400	**93**	**330**	5.7	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**1030**	**3400 J**	**1670**	**60.2**	13.8	**29.9**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/E40-55	NASP18GW-DPT/E44-15	NASP18GW-DPT/E44-35	NASP18GW-DPT/E44-55	NASP18GW-DPT/F04-15	NASP18GW-DPT/F04-35
Sample Date			02/15/06	02/15/06	02/15/06	02/15/06	03/15/06	03/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	24.1	5 U	5 U	5.5	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**28.6**	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	9	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	148	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**17.3**	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	39	1 U	1 U	1	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1.6	1 U	1.5
XYLENES, TOTAL	20	200	**187**	ND	ND	1	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/F04-55	NASP18GW-DPT/F04-75	NASP18GW-DPT/F19-10	NASP18GW-DPT/F19-20	NASP18GW-DPT/F19-30	NASP18GW-DPT/F19-40
Sample Date			03/15/06	03/15/06	02/12/06	02/12/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	**110**	25 U	25 U	25 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	**120**	25 U	25 U	25 U
BENZENE	1	100	1 U	1 U	20 U	5 U	5 U	5 U
ETHYLBENZENE	30	300	1 U	1 U	**120**	5.4	5 U	5 U
M+P-XYLENES	NC	NC	2 U	2 U	720	33	18	30
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	100 U	25 U	25 U	25 U
NAPHTHALENE	14	140	5 U	5 U	**150**	25 U	25 U	25 U
O-XYLENE	NC	NC	1 U	1 U	32	14	6.8	11
TOLUENE	40	400	1 U	1	20 U	5 U	5 U	5 U
XYLENES, TOTAL	20	200	ND	ND	**752**	**47**	**24.8**	41

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/F19-55	NASP18GW-DPT/F21-10	NASP18GW-DPT/F21-20	NASP18GW-DPT/F21-30	NASP18GW-DPT/F21-40	NASP18GW-DPT/F21-55
Sample Date			02/12/06	02/12/06	02/12/06	02/12/06	02/12/06	02/12/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**87**	8.8	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**95**	7	5 U	5 U	5 U	5 U
BENZENE	1	100	5 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	20	2	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	230	9.9	2.7	3.2	5.8	3.4
METHYL TERT-BUTYL ETHER	20	200	25 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**61**	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	66	4.1	1 U	1.1	1.6	1.2
TOLUENE	40	400	6.8	1 U	1 U	1.6	1.6	1 U
XYLENES, TOTAL	20	200	**296**	14	2.7	4.3	7.4	4.6

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/F28-35	NASP18GW-DPT/F28-55	NASP18GW-DPT/F42-15	NASP18GW-DPT/F42-35	NASP18GW-DPT/F42-55	NASP18GW-DPT/F42-75
Sample Date			03/21/06	03/21/06	03/20/06	03/20/06	03/20/06	03/20/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**80**	**59**	9.2	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**100**	**72**	10.6	5 U	5 U	5 U
BENZENE	1	100	10 U	10 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	10	10	13.9	1 U	1 U	1 U
M+P-XYLENES	NC	NC	85	47	163	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	50 U	50 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	50 U			5 U	5 U	5 U
O-XYLENE	NC	NC	34	17	41.8	1 U	1 U	1 U
TOLUENE	40	400	10 U	10 U	1	1 U	1 U	1.2
XYLENES, TOTAL	20	200	**119**	**64**	**204.8**	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G24-10	NASP18GW-DPT/G24-20	NASP18GW-DPT/G24-30	NASP18GW-DPT/G24-40	NASP18GW-DPT/G24-55	NASP18GW-DPT/G27-10
Sample Date			02/14/06	02/14/06	02/14/06	02/14/06	02/14/06	02/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**49.4**	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**57.5**	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**8.8**	1 U	1	**1.3**	1 U	1 U
ETHYLBENZENE	30	300	20.1	4.1	1	1.4	1 U	1 U
M+P-XYLENES	NC	NC	190	21.8	7.5	10.4	4.8	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140		5 U	5 U	5.6	5 U	5 U
O-XYLENE	NC	NC	2	9.1	1	1.3	1 U	1 U
TOLUENE	40	400	1.3	1.2	1.5	1.6	1.3	1 U
XYLENES, TOTAL	20	200	**192**	**30.9**	8.5	11.7	4.8	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G27-20	NASP18GW-DPT/G27-30	NASP18GW-DPT/G27-40	NASP18GW-DPT/G27-55	NASP18GW-DPT/G30-10	NASP18GW-DPT/G30-20
Sample Date			02/14/06	02/14/06	02/14/06	02/14/06	02/14/06	02/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	7.5	5 U	5 U	18.3	5 U
2-METHYLNAPHTHALENE	28	280	5 U	6.8	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**2**	1 U	**1.2**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1.2	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	4	2 U	3.5	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1.6	1 U	1.1	1 U	1 U
TOLUENE	40	400	1 U	3.2	1 U	1.1	1 U	1 U
XYLENES, TOTAL	20	200	ND	5.6	ND	4.6	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G30-30	NASP18GW-DPT/G30-40	NASP18GW-DPT/G30-55	NASP18GW-DPT/G35-10	NASP18GW-DPT/G35-20	NASP18GW-DPT/G35-30
Sample Date			02/14/06	02/14/06	02/14/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5.1
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	3.3	3.8	4	4.4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1.1	1.1	1.2
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	3.3	4.9	5.1	5.6

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DU02-02132006	NASP18GW-DPT/G35-40	NASP18GW-DPT/G35-55	NASP18GW-DPT/G40-10	NASP18GW-DPT/G40-20	NASP18GW-DPT/G40-30
Sample Date			02/13/06	02/13/06	02/13/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	11.1	**250**	**77**	**74**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	13.8	**310**	**63**	**100**
BENZENE	1	100	1 U	1 U	1 U	5 U	2 U	2 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	**49**	3.1	7.2
M+P-XYLENES	NC	NC	4.3	5.5	7.4	860	78.42	189
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	25 U	10 U	10 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**140**	9.22	**18**
O-XYLENE	NC	NC	1.2	1.5	2	300	9.34	22
TOLUENE	40	400	1 U	1.2	1 U	5	2 U	2
XYLENES, TOTAL	20	200	5.5	7	9.4	**1160**	**87.76**	**211**

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G40-40	NASP18GW-DPT/G40-55	NASP18GW-DPT/G44-10	NASP18GW-DPT/G44-20	NASP18GW-DPT/G44-30	NASP18GW-DPT/G44-40
Sample Date			02/13/06	02/13/06	02/15/06	02/15/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**35**	**43**	14.9	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	**50**	**59**	15.4	5 U	5 U	5 U
BENZENE	1	100	2 U	2 U	1 U	1 U	1 U	**1.2**
ETHYLBENZENE	30	300	4.5	6.4	3.2	1 U	1 U	2
M+P-XYLENES	NC	NC	93	120	56.8	3.9	7.4	23.3
METHYL TERT-BUTYL ETHER	20	200	10 U	10 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	10	13	13.5	5 U	5 U	5 U
O-XYLENE	NC	NC	11	15	17.1	1.1	2.2	7.5
TOLUENE	40	400	2	4	1 U	1 U	1 U	1.4
XYLENES, TOTAL	20	200	**104**	**135**	**73.9**	5	9.6	**30.8**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G44-55	NASP18GW-DPT/G47-15	NASP18GW-DPT/G47-35	NASP18GW-DPT/G47-55	NASP18GW-DPT/G47-75	NASP18GW-DPT/G51-15
Sample Date			02/15/06	03/14/06	03/14/06	03/14/06	03/14/06	03/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	9.4	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	9.8	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**5.9**	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	5.4	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	64.9	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	7.3	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	20	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	2.1	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**84.9**	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/G51-35	NASP18GW-DPT/G51-55	NASP18GW-DPT/I17-10	NASP18GW-DPT/I17-20	NASP18GW-DPT/I17-30	NASP18GW-DPT/I17-40
Sample Date			03/14/06	03/14/06	02/11/06	02/11/06	02/11/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	28	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	**30**	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	5 U	**8.2**	**81.5**	**10**
ETHYLBENZENE	30	300	1 U	1 U	**58**	1	24	1 U
M+P-XYLENES	NC	NC	2 U	2 U	320	3.1	32.6	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	25 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	**47**	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	200	1.2	14.2	1 U
TOLUENE	40	400	1 U	1 U	**360**	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	**520**	4.3	**46.8**	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I17-55	NASP18GW-DPT/I21-15	NASP18GW-DPT/I21-35	NASP18GW-DPT/I21-55	NASP18GW-DPT/I25-15	NASP18GW-DPT/I25-35
Sample Date			02/11/06	03/19/06	03/19/06	03/19/06	03/17/06	03/17/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**2**	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	10.5	1.7	2.1	1 U	1 U
M+P-XYLENES	NC	NC	2 U	52.1	8.4	11.8	3	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	28.5	4.8	6.3	1.4	1 U
TOLUENE	40	400	1 U	2.1	1.5	1.1	1 U	1 U
XYLENES, TOTAL	20	200	ND	**80.6**	13.2	18.1	4.4	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I25-55	NASP18GW-DPT/I37-10	NASP18GW-DPT/I37-20	NASP18GW-DPT/I37-30	NASP18GW-DPT/I37-40	NASP18GW-DPT/I37-55
Sample Date			03/17/06	02/13/06	02/13/06	02/13/06	02/13/06	02/13/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	8	24.7
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	7	23.1
BENZENE	1	100	1 U	1 U	1 U	1 U	**1.1**	**3**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	2
M+P-XYLENES	NC	NC	2 U	4	5.3	7.5	8.4	28.5
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	9
O-XYLENE	NC	NC	1 U	1 U	1.4	2.1	2.5	8.1
TOLUENE	40	400	1 U	1 U	1 U	1	1.6	2.8
XYLENES, TOTAL	20	200	ND	4	6.7	9.6	10.9	**36.6**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I39-10	NASP18GW-DPT/I39-20	NASP18GW-DPT/I39-30	NASP18GW-DPT/I39-40	NASP18GW-DPT/I39-55	NASP18GW-DPT/I41-15
Sample Date			02/13/06	02/13/06	02/13/06	02/13/06	02/13/06	03/20/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	**99**	**140**	5.3	9.2	10.2	7.1
2-METHYLNAPHTHALENE	28	280	**130**	**190**	5 U	7.3	12.3	7.5
BENZENE	1	100	1 U	1 U	1 U	**4.3**	1 U	1 U
ETHYLBENZENE	30	300	3.5	**89.1**	1 U	2	1.7	3.9
M+P-XYLENES	NC	NC	1600 L	1800 L	5.4	24.8	17.5	29.6
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**150**	**200**	5 U	4.3	4.2	6.4
O-XYLENE	NC	NC	520 L	580 L	1 U	7.3	4.6	14.3
TOLUENE	40	400	18.4	21.3	1 U	3.3	2.5	1.3
XYLENES, TOTAL	20	200	**2120 L**	**2380 L**	5.4	**32.1**	**22.1**	**43.9**

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I41-35	NASP18GW-DPT/I41-55	NASP18GW-DPT/I45-15	NASP18GW-DPT/I45-35	NASP18GW-DPT/I45-55	NASP18GW-DPT/I5-10
Sample Date			03/20/06	03/20/06	03/20/06	03/20/06	03/20/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1	1 U
M+P-XYLENES	NC	NC	2.3	5.4	2.6	2.6	3.7	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1.5	1 U	1 U	1.1	1 U
TOLUENE	40	400	1 U	1 U	1 U	1	1.5	1 U
XYLENES, TOTAL	20	200	2.3	6.9	2.6	2.6	4.8	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/I5-20	NASP18GW-DPT/I5-30	NASP18GW-DPT/I5-40	NASP18GW-DPT/I5-55	NASP18GW-DPT/J07-10	NASP18GW-DPT/J07-20
Sample Date			02/11/06	02/11/06	02/11/06	02/11/06	03/16/06	03/16/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**1.3**	1 U	1 U	1 U	**1.4**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2.3
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1.1
TOLUENE	40	400	1 U	2	1 U	1 U	1 U	1.9
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	3.4

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/J07-30	NASP18GW-DPT/J07-40	NASP18GW-DPT/J9-10	NASP18GW-DPT/J9-20	NASP18GW-DPT/J9-30	NASP18GW-DPT/J9-40
Sample Date			03/16/06	03/16/06	02/10/06	02/10/06	02/10/06	02/10/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1.1	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/J9-55	NASP18GW-DPT/K11-10	NASP18GW-DPT/K11-20	NASP18GW-DPT/K11-30	NASP18GW-DPT/K11-40	NASP18GW-DPT/K11-55
Sample Date			02/10/06	02/08/06	02/08/06	02/08/06	02/08/06	02/08/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	**1.1**	**1.2**	**2.6**	**1.8**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1.2	1.9	1.8
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K13-10	NASP18GW-DPT/K13-20	NASP18GW-DPT/K13-30	NASP18GW-DPT/K13-40	NASP18GW-DPT/K13-55	NASP18GW-DPT/K15-10
Sample Date			02/08/06	02/08/06	02/08/06	02/08/06	02/08/06	02/08/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**4.2**	1 U	1 U	1 U	**7.7**
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	9.3
M+P-XYLENES	NC	NC	2 U	2.6	2 U	2 U	2 U	52.4
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	8.6
O-XYLENE	NC	NC	1 U	1.3	1 U	1 U	1 U	18.4
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	3.9	ND	ND	ND	**70.8**

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K15-20	NASP18GW-DPT/K15-30	NASP18GW-DPT/K15-40	NASP18GW-DPT/K15-55	NASP18GW-DPT/K17-20	NASP18GW-DPT/K17.5-10
Sample Date			02/08/06	02/08/06	02/08/06	02/08/06	02/11/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	50 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	50 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**43**	1 U	1 U	1 U	**1.1**	**1.7**
ETHYLBENZENE	30	300	**78**	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	440	2 U	2 U	2.6	2 U	5.1
METHYL TERT-BUTYL ETHER	20	200	50 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**120**	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	140	1 U	1 U	1 U	1 U	1.5
TOLUENE	40	400	10 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**580**	ND	ND	2.6	ND	6.6

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K17.5-20	NASP18GW-DPT/K17.5-30	NASP18GW-DPT/K17.5-40	NASP18GW-DPT/K17.5-55	NASP18GW-DPT/K21-30	NASP18GW-DPT/K23-20
Sample Date			02/11/06	02/11/06	02/11/06	02/11/06	02/12/06	03/20/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**50.9**	**25**	**2**	1 U	1 U	1 U
ETHYLBENZENE	30	300	12.1	1 U	1 U	1 U	1.2	1 U
M+P-XYLENES	NC	NC	87.8	2 U	2.5	2.1	11.7	6.7
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	39.1	1 U	1 U	1 U	3.6	1 U
TOLUENE	40	400	1.7	1 U	1 U	1 U	1.1	1
XYLENES, TOTAL	20	200	**126.9**	ND	2.5	2.1	15.3	6.7

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K23-30	NASP18GW-DPT/K36-15	NASP18GW-DPT/K36-35	NASP18GW-DPT/K36-55	NASP18GW-DPT/K36-75	NASP18GW-DPT/K39-15
Sample Date			03/20/06	03/18/06	03/18/06	03/18/06	03/18/06	03/18/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	4.9	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	5.9	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K39-35	NASP18GW-DPT/K39-55	NASP18GW-DPT/K39-75	NASP18GW-DPT/K43-10	NASP18GW-DPT/K43-15	NASP18GW-DPT/K43-20
Sample Date			03/18/06	03/18/06	03/18/06	03/21/06	03/21/06	03/21/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	19.1	15.3	6.4
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	17.6	15	7.5
BENZENE	1	100	1 U	1 U	1 U	**1.3**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	23.96	7	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	262 L	88.4	4.9
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**38.8**	**21.7**	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	7.5	1	1 U
TOLUENE	40	400	1.1	1 U	1.2	1.2	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	**269.5 L**	**89.4**	4.9

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K43-30	NASP18GW-DPT/K43-35	NASP18GW-DPT/K43-40	NASP18GW-DPT/K43-55	NASP18GW-DPT/K43-55	NASP18GW-DPT/K47-15
Sample Date			03/21/06	03/21/06	03/21/06	03/21/06	03/21/06	03/18/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	7.9	5 U	10.8	**48.2**	5 U	5 U
2-METHYLNAPHTHALENE	28	280	8	5 U	12.8	**58.7**	5 U	5 U
BENZENE	1	100	**2.7**	1 U	**2.3**	**36.7**	1 U	1 U
ETHYLBENZENE	30	300	3.3	1.9	5.5	**34.5**	2.2	1 U
M+P-XYLENES	NC	NC	40	25.1	67	110	27	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	10.1	5 U	**17.2**	**85.8**	5 U	5 U
O-XYLENE	NC	NC	1	1 U	1.7	7.9	1 U	1 U
TOLUENE	40	400	1.8	1 U	2	5.2	1 U	1 U
XYLENES, TOTAL	20	200	41	**25.1**	**68.7**	**117.9**	**27**	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/K47-35	NASP18GW-DPT/K47-55	NASP18GW-DPT/K47-75	NASP18GW-DPT/M19-15	NASP18GW-DPT/M19-35	NASP18GW-DPT/M19-50
Sample Date			03/18/06	03/18/06	03/18/06	03/15/06	03/15/06	03/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	**1.4**	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1.5	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	11	2.8	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1.9 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	11	2.8	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/M19-75	NASP18GW-DPT/M39-15	NASP18GW-DPT/M39-35	NASP18GW-DPT/M39-55	NASP18GW-DPT/M39-75	NASP18GW-DPT/M43-15
Sample Date			03/15/06	03/18/06	03/18/06	03/18/06	03/18/06	03/18/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2.9	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	2.9	ND	ND	ND	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/M43-35	NASP18GW-DPT/M43-55	NASP18GW-DPT/M43-75	NASP18GW-DPT/M51-15	NASP18GW-DPT/M51-35	NASP18GW-DPT/M51-55
Sample Date			03/18/06	03/18/06	03/18/06	03/14/06	03/14/06	03/14/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/M51-75	NASP18GW-DPT/N15-10	NASP18GW-DPT/N15-20	NASP18GW-DPT/N15-30	NASP18GW-DPT/N15-40	NASP18GW-DPT/N15-55
Sample Date			03/14/06	02/11/06	02/11/06	02/11/06	02/11/06	02/11/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	**2.8**	**1.2**	**1.2**	**2.4**
ETHYLBENZENE	30	300	1 U	1 U	2.2	1 U	1 U	1.4
M+P-XYLENES	NC	NC	2 U	2 U	11.6	2.5	2.3	3.5
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	2.2	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	13.8	2.5	2.3	3.5

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/N19-30	NASP18GW-DPT/R15-15	NASP18GW-DPT/R15-35	NASP18GW-DPT/R15-55	NASP18GW-DPT/R15-75	NASP18GW-DPT/R27-15
Sample Date			02/12/06	03/15/06	03/15/06	03/15/06	03/15/06	03/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	8.2	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	3.7	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	11.9	ND	ND	ND	ND	ND

Note: GW-DPT = Sample type (DPT Groundwater)

TABLE F-1
MOBILE LABORATORY ANALYTICAL RESULTS - DPT GROUNDWATER LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	DPT Groundwater Locations					
			NASP18GW-DPT/R27-35	NASP18GW-DPT/R27-55	NASP18GW-DPT/R27-75	NASP18GW-DPT/R41-15	NASP18GW-DPT/R41-35	NASP18GW-DPT/R41-55
Sample Date			03/15/06	03/15/06	03/15/06	03/15/06	03/15/06	03/15/06
Volatile Organics - mobile (ug/L)								
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	DPT Groundwater Locations	
			NASP18GW-DPT/R41-75	NASP18GW-DPT/Trip Blank
Sample Date			03/15/06	03/22/06
Volatile Organics - mobile (ug/L)				
1-METHYLNAPHTHALENE	28	280	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U
BENZENE	1	100	1 U	1.1 U
ETHYLBENZENE	30	300	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U
TOLUENE	40	400	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND

Notes:
Bold shaded cell = exceedance of FDEP GCTLs
µg/L = micrograms per liter
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration
U = Less than laboratory method detection limit.
L = Off-scale high (estimated)
ND = not detected
GW-DPT = Sample type (DPT Groundwater)

TABLE F-2
MOBILE LABORATORY ANALYTICAL RESULTS - MONITORING WELL LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	TBL				
			NASP18GW-GI01-02102006	NASP18GW-GI02-02072006	NASP18GW-GI03-02112006	NASP18GW-GI04-02112006	NASP18GW-GI05-02092006
Sample Date			02/11/06	02/07/06	02/11/06	02/11/06	02/09/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	**10.8**	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	2.7	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	6.1	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	7.1	ND	ND	ND	ND

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GI06-02092006	NASP18GW-GI27-02072006	NASP18GW-GI29-02072006	NASP18GW-GI31-02082006	NASP18GW-GM24-02082006
Sample Date			02/09/06	02/07/06	02/07/06	02/08/06	02/08/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	5 U	5 U
BENZENE	1	100	1 U	**7.1**	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	6	1 U	1 U	1 U
M+P-XYLENES	NC	NC	2 U	12.6	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U	5 U	5 U	5 U
O-XYLENE	NC	NC	1 U	6.3	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	ND	18.9	ND	ND	ND

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS01	NASP18GW-DU01 (DUPLICATE)	NASP18GW-GS02	NASP18GW-GS04	NASP18GW-GS05-
Sample Date			02/11/06	02/10/06	02/07/06	02/11/06	02/09/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	**45.6**	**39.5**	**85**	16.9	**29.6**
2-METHYLNAPHTHALENE	28	280	**59.7**	**50.7**	**91**	22.5	**32.2**
BENZENE	1	100	**470**	**450**	10 U	1	1 U
ETHYLBENZENE	30	300	**130**	**130**	**130**	1.6	8.4
M+P-XYLENES	NC	NC	280	290	420	3.2	36.8
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	50 U	5 U	5 U
NAPHTHALENE	14	140	**180**	**160**	**160**	6.7	**17.1**
O-XYLENE	NC	NC	56.5	53.3	46	1 U	22.1
TOLUENE	40	400	5.7	5.6	**56**	1 U	1 U
XYLENES, TOTAL	20	200	**336.5**	**343.3**	**466**	3.2	**58.9**

TABLE F-2
MOBILE LABORATORY ANALYTICAL RESULTS - MONITORING WELL LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS06	NASP18GW-GS07	NASP18GW-GS08	NASP18GW-GS09	NASP18GW-GS10
Sample Date			02/09/06	02/07/06	02/11/06	02/09/06	02/10/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	13	**31**	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	12	**36**	5 U	5 U	5 U
BENZENE	1	100	2 U	**3**	1 U	1 U	1 U
ETHYLBENZENE	30	300	16	**44**	1 U	1 U	1 U
M+P-XYLENES	NC	NC	140	200	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	10 U	10 U	5 U	5 U	5 U
NAPHTHALENE	14	140	**19**	**59**	5 U	5 U	5 U
O-XYLENE	NC	NC	51	6.7	1 U	1 U	1 U
TOLUENE	40	400	25	4.2	1 U	1 U	1 U
XYLENES, TOTAL	20	200	**191**	**206.7**	ND	ND	ND

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS11	NASP18GW-GS12	NASP18GW-GS13	NASP18GW-GS17	NASP18GW-GS18
Sample Date			02/10/06	02/10/06	02/10/06	02/10/06	02/10/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	13.7	**72**
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	14.1	**76**
BENZENE	1	100	1 U	1 U	1 U	**17.5**	**6.3**
ETHYLBENZENE	30	300	1 U	1 U	1 U	19	**160**
M+P-XYLENES	NC	NC	2 U	2 U	2 U	39.2	680
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	10 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**98.3**	**160**
O-XYLENE	NC	NC	1 U	1 U	1 U	1 U	2.3
TOLUENE	40	400	1 U	1 U	1 U	1 U	2 U
XYLENES, TOTAL	20	200	ND	ND	ND	**39.2**	**682.3**

Sample Designation	GCTL	NADSC	Monitor Well Locations				
			NASP18GW-GS19	NASP18GW-GS21	NASP18GW-GS22	NASP18GW-GS26-02072006	NASP18GW-GS28-02072006
Sample Date			02/10/06	02/09/06	02/08/06	02/07/06	02/07/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	**140**	50 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U	5 U	**190**	50 U
BENZENE	1	100	**1.8**	1 U	1 U	10 U	10 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	**160**	**120**
M+P-XYLENES	NC	NC	11.6	2 U	2 U	130	640
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	50 U	50 U
NAPHTHALENE	14	140	5 U	5 U	5 U	**280**	**73**
O-XYLENE	NC	NC	10.7	1 U	1 U	10 U	310
TOLUENE	40	400	1 U	1 U	1 U	10 U	39
XYLENES, TOTAL	20	200	**22.3**	ND	ND	**130**	**950**

TABLE F-2
MOBILE LABORATORY ANALYTICAL RESULTS - MONITORING WELL LOCATIONS
SITE 18
SITE ASSESSEMENT REPORT
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Sample Designation	GCTL	NADSC	Monitor Well Locations		QA/QC Samples		
			NASP18GW-GS30-02082006	NASP18GW-GW25-02072006	NASP18FCEB01-02102006	NASP18FCEB02-02112006	NASP18FCEB02-032002006
Sample Date			02/08/06	02/07/06	02/10/06	02/11/06	03/20/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	50 U	24.5	5 U	5 U	5 U
2-METHYLNAPHTHALENE	28	280	50 U	26.8	5 U	5 U	5 U
BENZENE	1	100	10 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	10 U	8	1 U	1 U	1 U
M+P-XYLENES	NC	NC	210	38	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	50 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	50 U	**22.8**	5 U	5 U	5 U
O-XYLENE	NC	NC	76	1.6	1 U	1 U	1 U
TOLUENE	40	400	10 U	1 U	1 U	1.7	1 U
XYLENES, TOTAL	20	200	**286**	**39.6**	ND	ND	ND

Sample Designation	GCTL	NADSC	QA/QC Samples				
			NASP18FCEB03-02122006	NASP18GW-FCEB04-02132006	NASP18GW-FCEB05-02142006	NASP18GW-FCEB06-02152006	NASP18GW-FCEB07-02152006
Sample Date			02/12/06	02/13/06	02/14/06	02/15/06	02/15/06
Volatile Organics - mobile (ug/L)							
1-METHYLNAPHTHALENE	28	280	5 U	8.3	5 U	5.6	5 U
2-METHYLNAPHTHALENE	28	280	5 U	10.5	5 U	6.3	5 U
BENZENE	1	100	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U	1 U	1 U	1 U
M+P-XYLENES	NC	NC	3.4	3.5	4.8	2 U	3
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	14	140	5 U	5.1	5 U	5 U	5 U
O-XYLENE	NC	NC	1.1	1 U	1 U	1 U	1 U
TOLUENE	40	400	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	20	200	4.5	3.5	4.8	ND	3

Sample Designation	GCTL	NADSC	QA/QC Samples	
			NASP18GW-FCEB08-02162006	NASP18FB01-03132006
Sample Date			02/16/06	03/13/06
Volatile Organics - mobile (ug/L)				
1-METHYLNAPHTHALENE	28	280	5 U	5 U
2-METHYLNAPHTHALENE	28	280	5 U	5 U
BENZENE	1	100	1 U	1 U
ETHYLBENZENE	30	300	1 U	1 U
M+P-XYLENES	NC	NC	2 U	2 U
METHYL TERT-BUTYL ETHER	20	200	5 U	5 U
NAPHTHALENE	14	140	5 U	5 U
O-XYLENE	NC	NC	1 U	1 U
TOLUENE	40	400	1 U	1 U
XYLENES, TOTAL	20	200	ND	ND

Notes:
Bold shaded cell = exceedance of FDEP GCTLs
µg/L = micrograms per liter
FCEB = Field Clean Equipment Blank
GCTL = Groundwater Cleanup Target Level
NADSC = Natural Attenuation Default Source Concentration
U = Less than laboratory method detection limit.
L = Off-scale high (estimated)
ND = not detected

APPENDIX G

RESPONSE TO FDEP COMMENTS

Response to Comments

FDEP Comments dated July 9, 2007

Draft Site Assessment Report Addendum (SARA) for
Underground Storage Tank Site 18
December 2006
Naval Air Station Pensacola, Pensacola Florida

Comment 1. Figure 4-9: After reviewing this figure the department feels that more assessment needs to be conducted on the west boundary of both the northern and southern plumes at this site.

Response 1: The western boundaries of the northern and southern plumes were defined by the direct push technology (DPT) study conducted in February and March, 2006 (refer to Figure 4-1 in the Draft SARA). In particular, the northern plume is defined in the west by the following DPT locations and corresponding analytical results:

Northern Plume Western Boundary

DPT Sample Location and Depths	GCTL Exceedances
18DPT-110 (15', 35', 55')	No Exceedances
18DPT-111 (15', 35', 55')	No Exceedances
18DPT-112 (15', 35', 55')	No Exceedances
18 DPT-105 (15', 35', 55', 75')	1.4 ppb benzene and 35' depth
18DPT-113 (30')	2.7 ppb benzene and 30' depth
18DPT-114 (15', 35')	No Exceedances
18DPT-C15 (10', 20', 30', 40', 55')	No Exceedances
18DPT-A19 (15', 35', 55', 75')	2.2 ppb benzene and 75' depth
18DPT-F21 (10', 20', 30', 40', 55')	No Exceedances
18DPT-A23 (15', 35', 55', 75')	No Exceedances
18DPT-D26 (15', 35', 55')	No Exceedances
18DPT-D29 (15', 35', 55')	No Exceedances

The southern plume is defined to the west by the following DPT locations and corresponding analytical results:

Southern Plume Western Boundary

DPT Sample Location and Depths	GCTL Exceedances
18DPT-107 (15', 35', 55')	No Exceedances
18DPT-103 (15', 35', 55', 75')	No Exceedances
18 DPT-B40 (15', 35', 55', 75')	No Exceedances
18DPT-E44 (15', 35', 55')	No Exceedances
18DPT-106 (15', 30', 55', 75')	No Exceedances
18DPT-C46 (15', 35', 55', 75')	No Exceedances

Therefore, no additional delineation activities are warranted in these areas.

Comment 2. Page 5-1, 3rd bullet: The Department would like to see a vertical profile of the groundwater plumes at this site. This will help in visually interpreting these results and determine if the site has been vertically delineated.

Response 2: Tetra Tech will prepare the requested profile and include it in the final report. The addition figures to be included in the final report are attached.

Comment 3. Page 5-1, 5th bullet: Please compare the iron and manganese exceedances found in these monitoring wells and determine if the concentrations exceed the background data set for the same constituents. The Department will be open to discussing options for this situation after this information has been provided.

Response 3. All of the Site 18 monitor well samples have been compared and analyzed for relative iron and manganese concentrations. Due to the small sample size of the data (n = 77), only the shallow monitor well samples could be statistically analyzed. The intermediate and deep wells could not be statistically analyzed due to the limited number of samples collected from these two zones.

For the shallow zone, no evident relationship was found between iron and manganese concentrations. There were differences in iron and manganese concentrations noted between the in-plume monitoring wells and both the upgradient and downgradient monitoring wells.

Upgradient iron and manganese concentrations were used as a baseline for comparison values, because they are an example of "normal" site conditions. The upgradient iron and manganese concentrations at Site 18 were noted to be higher than the historical background concentrations. Therefore, establishment of site-specific background levels may be a viable approach. The shallow sample locations were compared statistically at a 95% confidence level, and the intermediate and deep sample locations were compared to the background levels using the arithmetic mean values of the upgradient, in-plume, and downgradient results.

Results for iron indicate higher values than the upgradient "background" levels for the following:

- shallow in-plume wells,
- intermediate in-plume wells, and
- intermediate downgradient wells.

Results for manganese indicate higher values than the upgradient "background" levels for the following:

- shallow in-plume wells,
- shallow downgradient wells,
- intermediate in-plume wells, and
- deep in-plume wells.

STATISTICAL ANALYSIS
Fe AND Mn DATA
NAS PENSACOLA
UST SITE 18
TABLE G-1

Iron	Minimum	Maximum	Mean	Median	SD	Coefficient of Variation	Skewness	Number of wells	Data Distribution	**Iron Probability of Difference**	
										V.S. Upgradient	V.S. Downgradient
Shallow In-plume	48.7	12200	1820	776.5	2880	1.582	2.848	20	Data appear Lognormal at 5% Significance Level	The probability of this result, assuming the null hypothesis, is 0.22	The probability of this result, assuming the null hypothesis, is 0.57
Shallow Upgradient	212	2420	1278	1235	715.5	0.56	0.254	7	Data appear Normal at 5% Significance Level		The probability of this result, assuming the null hypothesis, is 0.092
Shallow Downgradient	115	3300	1060	475	1275	1.203	1.493	9	Data are lognormal at 5% significance level		
Intermediate In-plume	1120	29800	16344	22100	11455	0.701	-0.502	22	Use 99% Chebyshev (Mean, Sd) UCL		The probability of this result, assuming the null hypothesis, is 0.087
Intermediate Upgradient	720	13600	7160					2			
Intermediate Downgradient	244	32600	8321	685	11412	1.371	1.454	9	Use 95% Adjusted Gamma UCL		
Deep In-plume	398	18300	5754	1010	7837	1.362	1.372	5	Use 95% Student's-t UCL		
Deep Upgradient			6030					1			
Deep Downgradient			3470					1			

Maganese	Minimum	Maximum	Mean	Median	SD	Coefficient of Variation	Skewness	Number of wells	Data Distribution	**Maganese Probability of Difference**	
										V.S. Upgradient	V.S. Downgradient
Shallow In-plume	6.4	134	31.53	20.4	34.68	1.1	2.005	20	Data appear Lognormal at 5% Significance Level	The probability of this result, assuming the null hypothesis, is 0.11	The probability of this result, assuming the null hypothesis, is 0.95
Shallow Upgradient	1.5	28.3	10.48	8.1	9.947	0.95	1.043	7	Data appear Normal at 5% Significance Level		The probability of this result, assuming the null hypothesis, is 0.11
Shallow Downgradient	1.5	105	32.44	16.9	35.28	1.087	1.309	9	Data appear Normal at 5% Significance Level		
Intermediate In-plume	5	1200	454.8	487	405.1	0.891	0.353	22	Use 99% Chebyshev (Mean, Sd) UCL		The probability of this result, assuming the null hypothesis, is 0.11
Intermediate Upgradient	1.5	404	243.62					2			
Intermediate Downgradient	1.5	872	202.7	6	312.3	1.541	1.616	9	Use 95% Adjusted Gamma UCL		
Deep In-plume	8.3	584	195	9.7	266.3	1.366	0.979	5	Use 95% Student's-t UCL		
Deep Upgradient			63.8					1			
Deep Downgradient			40.1					1			

* 3 or more values reflect 95% UCL values
2 or less values are represented by the arithmetic mean