N00204.AR.002421
NAS PENSACOLA
5090.3a

SITE ASSESSMENT REPORT FOR BUILDING 1932, NAVY EXCHANGE "TOUCH-N-GO" SERVICE STATION UST SITE 25 NAS PENSACOLA FL

9/1/2001

NAVFAC SOUTHERN

Rev. 0
8/31/01

Site Assessment Report
for
Building 1932, Navy Exchange "Touch-n-Go" Service Station UST Site 000025

Naval Air Station
Pensacola, Florida

Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order CTO-0140

September 2001

TETRA TECH NUS, INC.
1401 Oven Park Drive • Suite 102 • Tallahassee, FL 32312
(850) 385-9899 • FAX (850) 385-9860 • www.tetratech.com

TtNUS/TAL-01-086/0547-7.2.3

September 25, 2001

Project Number 0547

Joe Fugitt, P.G.
Remedial Project Manager
Technical Review/Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: Clean Contract No. N62467-94-D-0888
Contract Task Order No. 0140

Subject: Site Assessment Report for Building 1932 Navy Exchange "Touch-n-Go" Service Station, Underground Storage Tank Site 000025, Naval Air Station Pensacola, Pensacola, Florida

Dear Mr. Fuggit:

Tetra Tech NUS is pleased to submit for your review the Draft Site Assessment Report for Building 1932 Navy Exchange "Touch-n-Go" Service Station Underground Storage Tank Site 000025, Naval Air Station (NAS) Pensacola, Pensacola, Florida. This document has been sealed be a Florida Professional Geologist and following receipt of Florida Department of Environmental Protection's approval a Remedial Action Plan will be completed.

If you have any questions, please call me at (850) 385-9899.

Sincerely yours,

Gerald Walker

Gerald Walker, P.G.
Project Manager

GAW/gaw

Enclosure

c: Byas Glover, SOUTHDIV
Greg Campbell, NAS Pensacola PWC
Debbie Wroblewski (Cover Letter Only)
Mark Perry/file
TtNUS File, Tallahassee
TtNUS library, Tallahassee

TABLE OF CONTENTS

SECTION **PAGE**

EXECUTIVE SUMMARY ES-1

1.0 SITE DESCRIPTION AND BACKGROUND INFORMATION 1-1
1.1 SITE LOCATION AND CONDITIONS 1-1
1.2 SITE HISTORY 1-2

2.0 SITE ASSESSMENT METHODOLOGY 2-1
2.1 QUALITY ASSURANCE 2-1
2.2 SOIL ASSESSMENT PROGRAM 2-2
2.2.1 Soil Lithologic Descriptions 2-2
2.2.2 Soil Headspace Screening 2-3
2.2.3 Soil Sampling for Laboratory Analysis 2-3
2.3 MONITORING WELL INSTALLATION PROGRAM 2-3
2.3.1 Monitoring Well Locations 2-4
2.3.2 Shallow and intermediate Monitoring Well Installation 2-4
2.3.3 Monitoring Well Development 2-4
2.4 GROUNDWATER SAMPLING PROGRAM 2-5
2.4.1 Monitoring Well Sampling 2-5
2.5 AQUIFER CHARACTERIZATION 2-5
2.5.1 Well TOC Survey 2-6
2.5.2 Static Water Level Measurements 2-6
2.5.3 Slug Tests 2-6

3.0 GEOLOGY AND HYDROGEOLOGY 3-1
3.1 SITE STRATIGRAPHY 3-1
3.2 SITE HYDROGEOLOGY 3-2
3.2.1 Free Product Thickness Measurements 3-2
3.2.2 Static Water Level and Groundwater Elevation 3-3
3.2.3 Groundwater Flow Direction 3-4
3.2.4 Water Table Gradient 3-4
3.2.5 Hydraulic Conductivity 3-5
3.2.6 Groundwater Velocity 3-6
3.2.7 Potable Water Supply Well Survey 3-7
3.2.8 Surface Water 3-7

4.0 SITE ASSESSMENT RESULTS 4-1
4.1 SOIL ASSESSMENT RESULTS 4-1
4.1.1 DPT Headspace Screening 4-2
4.1.2 Laboratory Soil Sample Analysis 4-2
4.1.3 Estimated Mass of Contamintants in Soil 4-3
4.2 GROUNDWATER ASSESSMENT RESULTS 4-4
4.2.1 Monitoring Well Sampling 4-4

TABLE OF CONTENTS (Continued)

5.0 DISCUSSION 5-1
5.1 SOURCE OF HYDROCARBONS 5-1
5.2 SITE CONDITIONS 5-2
5.3 SOIL ASSESSMENT 5-2
5.4 GROUNDWATER ASSESSMENT 5-3

6.0 CONCLUSIONS AND RECOMMENDATION 6-1

7.0 PROFESSIONAL CERTIFICATION

REFERENCES R-1

TABLES

NUMBER

2-1 Monitoring Well Construction Details
3-1 Groundwater Elevation Summary
3-2 Potable Water Supply Well Data
4-1 Soil OVA Screening Results
4-2 Summary Of Laboratory Soil Analytical Results
4-3 Summary Of Laboratory Groundwater Analytical Results

FIGURES

NUMBER

1-1 Regional Map
1-2 Site Topographical Map
1-3 Site Plan Map
2-1 Soil Sampling And DPT Borehole Locations
2-2 Monitoring Well Locations and Cross Section Location
2-3 Typical Shallow and Intermediate Monitoring Well Construction Detail
3-1 Hydrogeologic Cross Section
3-2 Free Product Thickness - November 8, 2000
3-3 Free Product Thickness - May 1, 2001
3-4 Shallow Water Level Elevations - November 8, 2000
3-5 Shallow Water Level Elevations - May 1, 2001
3-6 Potable Well Locations
4-1 Soil Headspace Screening Results 0-4ft
4-2 Soil Headspace Screening Results 4-8ft
4-3 Soil Headspace Screening Results For Sample Immediately Above Watertable
4-4 Groundwater Analytical Results - Benzene Concentrations
4-5 Groundwater Analytical Results – Ethylbenzene Concentration
4-6 Groundwater Analytical Results – Total Xylene Concentration
4-7 Groundwater Analytical Results – Naphthalene Concentration

APPENDICES

A SITE ASSESSMENT REPORT SUMMARY SHEET A-1
B TANK CLOSURE REPORT AND HISTORIC DATA B-1
C FIELD DATA FORMS C-1
D LABORATORY ANALYTICAL REPORTS D-1
E SURVEY DATA CALCULATIONS E-1

F SLUG TEST DATA.....F-1
G SOIL CONTAMINANT MASS CALCULATIONS G-1

EXECUTIVE SUMMARY

Tetra Tech NUS, Inc. (TtNUS) has been authorized by Southern Division, Naval Facilities Engineering Command to prepare site assessment reports for petroleum impacted sites at the Naval Air Station, Pensacola, in Escambia County, Florida. This Site Assessment Report (SAR) has been prepared to evaluate soil and groundwater conditions at Building 1932 Underground Storage Tank (UST) Site 00025 the Navy Exchange "Touch N Go" Service Station.

Site Assessment Activities

- Reviewed available Navy documents to identify potential sources and receptors for petroleum hydrocarbons in the site vicinity, evaluate public and private potable water wells, locate utility line areas, locate nearby surface water bodies, and determine surface hydrology and drainage;
- Conducted an assessment of soil and groundwater in the vicinity of Building 1932 Underground Storage Tank Site 000025 using direct push testing (DPT) methods for soil sampling and monitoring well installation for groundwater sampling;
- Installed twenty-two shallow permanent monitoring wells to approximately 16 feet below land surface (BLS), and two intermediate monitoring wells to approximately 40 feet BLS;
- Collected groundwater samples from the permanent monitoring wells for laboratory analysis of volatile organic aromatics (VOCs), polynuclear aromatic hydrocarbons (PAHs), ethylene dibromide (EDB), total recoverable petroleum hydrocarbons (TRPH), and lead; and
- Completed an aquifer characterization program to evaluate the movement of groundwater at the site.

Conclusions

- Soils that are defined as "excessively contaminated" by 62-770 Florida Administrative Code are present from the surface down through the vadose zone at the site,
- Free-product is present at the site,
- Concentrations of petroleum contaminants of concern in site groundwater exceed Groundwater Cleanup Target Levels (GCTLs) specified in Chapters 62-770 and 62-777, Florida Administrative Code (F.A.C.),
- Exposure pathways to human receptors via surface water or supply wells are not complete.

Recommendations

Based upon the hydrogeological and chemical data presented in this SAR and the requirements of Chapter 62-770 and 62-777, F.A.C., TtNUS recommends, that a Remedial Action Plan (RAP) be completed and active remediation of the free-product and soils be addressed. Following active remediation, measurement of natural attenuation parameters of the onsite groundwater should be performed.

In addition, TtNUS recommends that free product removal be initiated immediately and continued until an active recovery system is installed.

1.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

Tetra Tech NUS, Inc. (TtNUS), under contract to the Department of Navy, Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), is submitting this Site Assessment Report (SAR) documenting the findings of the site assessment performed at underground storage tank (UST) Site 000025 located at the Naval Air Station (NAS) located in Pensacola, Florida (Figure 1-1). This SAR was prepared on behalf of the Navy under contract No. N62467-94-D-0888 and summarizes environmental assessment activities conducted by TtNUS at UST Site 000025. The SAR Summary Sheet is included in Appendix A.

1.1 SITE LOCATION AND CONDITIONS

Building 1932, UST Site 000025, is the current Navy Exchange "Touch N Go" Service Station facility located at Sherman Field, NAS Pensacola. NAS Pensacola is located in northwest Florida on the western side of Pensacola Bay, approximately 2 miles south of Pensacola, Florida, on Navy Boulevard. Building 1932 is located on the north side of San Carlos Road within the boundaries of Forrest Sherman Field, as shown on the Fort Barrancas, Florida, US Geologic Survey Quadrangle Map (Figure 1-2). Building 1932, UST Site 000025 (Figure 1-3), consists of a single building and three canopy covered pump islands, currently used as a convenience store and gasoline station for Navy Personnel. A former pump island is noted on the Figure 1-3 to the southwest of the current dispensers. The concrete base and water lines are still present at this former pump island. The status of the former product lines is unknown. The site is covered with asphalt and concrete. Surface drainage generally flows to the south and is collected by storm sewer drains.

The fuel islands are currently supplied fuels from above ground storage tanks (ASTs) located approximately 85 feet south of the building. The ASTs supply diesel, unleaded, and super-unleaded fuel to the station. Former USTs located south of the fuel islands previously provided fuel for the service station. The current status of the former USTs is unknown. Whether the USTs were closed in place or closed by removal is unknown at this time. A concrete slab now covers the former USTs (or previous location of the USTs) and no fill ports are present.

Building 1932 was constructed in 1959 and original drawings indicated two vehicle service areas, one with a vehicle lift and the second with a floor drain. A 40-inch by 45-inch, 500-gallon capacity, steel used oil tank (UST Number 1932F) was located along the west wall of Building 1932 and received waste oil from service station activities. The waste oil UST was closed by removal in

August 1994 and a release was reported based on discolored soil and corresponding organic vapor analyzer (OVA) response indicative of petroleum. Copies of the tank closure report and other historic data are included in Appendix B.

1.2 SITE HISTORY

After the release was reported during the waste oil tank removal, a monitoring well was installed and sampled in March 1995 in the former tank hold location. The sample was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) method 8260 and base neutral acid extractables (BNAs) by USEPA method 8270A. The groundwater sample was reported to contain 12 compounds at concentrations above method detection limits; two of the compounds, naphthalene (79 micrograms per liter [µg/L]) and m,p-xylene (62 µg/L), were detected at concentrations exceeding the Florida Groundwater Guidance Concentrations (NASP, 1995). Copies of the boring log and monitoring well construction diagram for this well (hereby designated as NASP-1932-MW-1) along with the laboratory data sheet are included in Appendix B.

2.0 SITE ASSESSMENT METHODOLOGY

In August 2000, TtNUS mobilized to the site to perform a DPT assessment of the extent of the known contamination in both soil and groundwater. The original scope of work requested soil samples in the immediate vicinity of the former waste oil tank and around the base of Building 1932. The first borehole (SB-1) performed adjacent to the MW-1 well revealed dark black free product Present in the soil sample at a depth of 13 to 14 feet below ground surface (BLS). Checking the MW-1 liquid levels with an interface probe, TtNUS found the depth to product was 13.19 feet and the depth to water was 14.17 feet, or 0.98 feet of thickness of dark black free product. The scope of work was then expanded to include a much larger aerial extent of contamination and the boreholes were more widely spaced around the building in effort to delineate the free product limits. Another borehole (SB-11) adjacent to the former tank pit and just south of the current dispenser islands revealed a much lighter colored free product with the distinct odor of diesel fuel. A zone between 14 to 15 feet BLS was saturated with this light honey-colored free product and was dripping from the sample.

In October 2000, TtNUS mobilized a drill rig to the site to install monitoring wells to delineate the full extent of contamination. Site assessment activities conducted at the Building 1932 site included soil gas headspace sampling, subsurface soil sampling, monitoring well installation, groundwater sampling, and aquifer testing. A DPT investigation was conducted prior to monitoring well installation. Soil samples were collected during this investigation for headspace screening and laboratory analysis. Additional headspace screening was performed during monitoring well installation. Groundwater samples were collected from monitoring wells for laboratory analysis. Data collected during the monitoring well elevation survey, static water level measurements, and slug tests were used to evaluate aquifer properties at the site. The results of the site assessment are discussed in Chapters 3.0 and 4.0.

2.1 QUALITY ASSURANCE

The site assessment investigation was conducted in accordance with the Standard Operating Procedures (SOP) prescribed by the FDEP Quality Assurance Section Document DER-001/92, and adopted by the TtNUS Comprehensive Quality Assurance Plan (CompQAP) Number 980038. Equipment used to advance the soil borings, install monitoring wells, and collect soil or groundwater samples was decontaminated prior to and following each use according to TtNUS' CompQAP. Groundwater generated during well development and sampling was containerized in

labeled 55-gallon drums and staged for proper disposal pending analytical results. Organic vapor measurements were made with a Heath Porta-FID II (FID). Prior to each day's activities, the FID was field calibrated with 100-parts per million (ppm) methane in air span gas, in accordance with the manufacturers directions.

Groundwater sampling activities were performed in accordance with the procedures prescribed in the FDEP Quality Assurance Section's Standard Operating Procedures for Laboratory Operations and Sample Collection Activities, (DER-001/92), adopted by TtNUS' CompQAP. Soil samples were collected in containers obtained from Accura Analytical Laboratory. Groundwater samples were collected in pre-preserved containers obtained from Accura Analytical Laboratory. As part of the groundwater sampling event, quality control samples (e.g. equipment blanks and trip blanks) were prepared and submitted to the laboratory as required by the approved CompQAP. Sampling activities were documented in a site-specific field logbook, and samples were transmitted under chain-of-custody protocols to the laboratory.

2.2 SOIL ASSESSMENT PROGRAM

The soil screening investigation was conducted at the Building 1932 site to evaluate the extent of petroleum impacted soils previously detected during closure activities. During the soil screening investigation, 11 soil borings (NASP-1932-SB-1 through NASP-1932-SB-11) were advanced using DPT methods (Figure 2-1). Soil samples from the borings were collected for headspace screening with a FID and laboratory analysis. During the DPT field investigation, each soil boring was advanced to the water table that occurred at approximately 14 to 15 feet BLS.

2.2.1 Soil Lithologic Descriptions

Soil borings for the preliminary assessment were advanced with a DPT rig utilizing soil core samplers. The soil core samplers were four feet long and were lined with disposable plastic sleeves. The soil borings were advanced continuously from ground surface to a depth of approximately 16 feet at each soil boring location. The site geologist recorded the soil properties, including texture, color and soil moisture, for each soil boring and noted staining or odors. Soil boring logs are provided in Appendix C. Soil samples were also collected from the soil cores for headspace screening and laboratory analysis.

2.2.2 Soil Headspace Screening

Soil samples were collected from each four-foot interval of soil core for headspace screening in accordance with the procedures outlined in 62-770.200(8) F.A.C. From each four-foot interval, two 16-ounce glass jars were half-filled with soil, sealed with aluminum foil, and labeled. The soil samples were allowed to equilibrate to ambient air temperature. The FID response to total headspace organic vapors was measured by inserting the FID probe through the foil sample cover and recording the highest instrument reading. If a positive response was observed when screening the first sample jar, a filtered instrument reading was made from the second soil sample jar. A granular activated carbon (GAC) filter was attached to the instrument and a headspace organic vapor measurement was made from the second soil sample. The GAC filter adsorbs heavier organic vapors, such as petroleum hydrocarbons but allows lighter, naturally-occurring organic vapors, such as methane, to be detected by the FID. The filtered concentration was subtracted from the total vapor concentration to determine the corrected FID response.

2.2.3 Soil Sampling for Laboratory Analysis

Eight soil samples were collected from the Building 1932 site for off-site laboratory analysis to correlate the results of the headspace screening with laboratory analyses and to delineate soil contamination above the water table. Analytical samples were collected across UST Site 000025 representative of low to medium to high FID responses and to determine the shallowest zones of contaminated soil in the source area (Figure 2-1). The laboratory samples were collected from either the vadose zone interval with highest FID response or the interval directly above the water table.

The soil samples were analyzed for VOCs using SW-846 Method 8260B, SVOCs using SW-846 Method 8270C, PAHs using SW-846 Method 8310, TRPH using FL-PRO, RCRA Metals using SW-846 Method 6010B and 7471A, Total Organic Carbon using SW-846 Method 9060, and for Grain Size using ASTM D422 analytical and reporting protocols. The laboratory analytical report is included in Appendix D.

2.3 MONITORING WELL INSTALLATION PROGRAM

Following the DPT activities, 22 shallow (NASP-1932-MW-2 through NASP-1932-MW-23,), and 2 intermediate vertical extent (NASP-1932-MW-24D and NASP-1932-MW-25D) monitoring wells were installed at the site. The monitoring wells were used for groundwater sampling and collecting data to evaluate aquifer properties.

2.3.1 Monitoring Well Locations

Screening data obtained during the DPT investigation, liquid levels from previously existing monitoring wells (including free product thickness measurements) and topography were evaluated to determine the optimum number and location of the wells. Monitoring well placements were selected to provide spatial coverage around the area of the release (Figure 2-2).

2.3.2 Shallow and Intermediate Monitoring Well Installation

The monitoring well borings were drilled with a truck-mounted Geoprobe® rig with hollow stem auger (HSA) capability utilizing a 4.25-inch inside diameter (ID) HSA creating a nominal borehole diameter of approximately 8.25-inches. Each well was constructed of 2-inch inside diameter ID, flush-threaded, schedule 40 polyvinyl chloride (PVC) riser and 0.010-inch slot well screen with a 6-inch point cap. The shallow wells were installed from approximately 16 to 16.5 feet BLS with a 10-foot screen section that bracketed the water table. The intermediate monitoring wells were installed to approximately 40 feet BLS and constructed of 2-inch ID, flush-threaded, schedule 40 polyvinyl chloride (PVC) riser and 5-feet of 0.010-inch slot well screen with a 6-inch point cap.

The annulus around each well was filled approximately two to three feet above the top of the screen with US Standard Sieve size 20/40 silica sand, followed by a two foot bentonite seal. The remainder of the annulus was grouted to the surface. 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 apron finished slightly above grade. A typical shallow and intermediate well installation is illustrated on Figure 2-3. Monitoring well construction details are summarized on Table 2-1 and the monitoring well completion diagrams are provided in Appendix C.

2.3.3 Monitoring Well Development

Except for monitoring wells containing a measurable thickness of free product, each monitoring well was developed using a centrifugal pump. Groundwater physical parameters were monitored during development. The well was considered developed once three consecutive field readings of temperature, pH, and specific conductivity stabilized within the required percentages; and turbidity had fallen to less than 10 NTUs in most cases, and less than 100 NTUs in some cases. Potentially contaminated development water from the site was stored in labeled 55-gallon drums

and later appropriately disposed of based on the analytical results. Monitoring well development records are provided in Appendix C.

2.4 GROUNDWATER SAMPLING PROGRAM

During site assessment activities, groundwater samples were collected from monitoring wells installed after the DPT screening investigation. Groundwater samples collected from the monitoring wells were submitted to an offsite laboratory to be analyzed for petroleum constituents and specified RCRA metals.

2.4.1 Monitoring Well Sampling

Groundwater samples were collected from newly installed site monitoring wells to evaluate groundwater quality in the shallow surficial aquifer in the vicinity of the former UST's. The groundwater samples were collected using the low-flow quiescent purging and sampling method. New Teflon® tubing was installed in each well for groundwater sampling. Approximately three well volumes were removed from each well using a peristaltic pump and Teflon® tubing. Temperature, pH, specific conductance, dissolved oxygen concentration, salinity, and turbidity were monitored while the wells were purged. The field measurements and well purge volumes were recorded during well purging and at the time of sample collection. Groundwater sample log sheets are provided in Appendix C.

Groundwater samples were collected from each monitoring well to be analyzed for 1,2-Dibromoethane (ethylene dibromide or EDB) using SW-846 EPA Method 504.1, VOCs (EPA Method 8260B), PAHs (EPA Method 8270C), TRPH (FL-PRO) and Lead (EPA Method 3010A/6010B). The groundwater samples were placed on ice and transported to Accura Analytical Laboratory, Inc. in Norcross, Georgia for analysis. Groundwater laboratory analytical reports are presented in Appendix D.

2.5 AQUIFER CHARACTERIZATION

Data were collected during the site investigation to evaluate the movement of groundwater at the site. Groundwater elevations were determined from static water level measurements and a well top-of-casing (TOC) elevation survey. Hydraulic conductivity values for the shallow surficial aquifer were calculated from recovery measurements made during slug tests in selected monitoring wells at the site.

2.5.1 Well TOC Survey

A reference point was marked on the top of each monitoring well casing on the north side. The elevations of the reference points were surveyed to the nearest 0.01-foot, relative to the elevation above a referenced benchmark set at 33 feet above sea level. The referenced benchmark is the top southeast corner of the AST containment area. The survey data calculations are included in Appendix E.

2.5.2 Static Water Level Measurements

Depth-to-product and depth-to-groundwater measurements were made in site monitoring wells during two gauging events on November 8, 2000, and May 1, 2001. Measurements were made from the reference points marked on the tops of well casings using an electronic water level indicator (interface probe where applicable). Static water level measurements were made to the nearest 0.01-foot. Groundwater elevations were calculated from the TOC survey elevations and the static water-level measurements.

2.5.3 Slug Tests

Slug tests were conducted to characterize the aquifer horizontal hydraulic conductivity (K) at four shallow monitoring wells and one intermediate monitoring well at the site. The well locations (NASP-1932-MW-2, NASP-1932-MW-3, NASP-1932-MW-6, NASP-1932-MW-17, and NASP-1932-MW-24D, (Figure 2-2) were selected because they were outside of the source area.

Prior to conducting the tests, the monitoring wells were opened and allowed to equilibrate to ambient conditions. Once a well had stabilized, static water level and total well depth were recorded and used to calculate the height of the water column in the well. A Mini-Troll® pressure transducer and a solid slug to displace the water column were then inserted in the well and the water level and temperature were allowed to re-stabilize. The Mini-Troll® pressure transducer was connected to a laptop computer to record water levels in the well. At the beginning of the test, the slug was smoothly pulled out of the well (slug-out, or rising head test) and the laptop computer was started. All wells were tested using the slug-out method and the one intermediate well was also tested using the slug-in or falling head method. The slug-out method is commonly used for well screens that straddle the water table. The cascading effect within the filter pack is thus minimized. The slug-in, or rising head, test is commonly used for wells that intersect the water table above the top of the screen. The cascading effect is minimal in this type of well. Both

methods were used on the intermediate well to check for similarity of results. The laptop computer recorded the recovery of water level in the well back to the static level. The recovery data was then analyzed following the Bouwer and Rice (1976) method for unconfined aquifers using the AQTESOLV™ (Duffield, Glenn M., 1996) computer program. The program was used to calculate the hydraulic conductivity (K) of the shallow aquifer. Results are reported below in Section 3.2.5. These values for K should be considered to be approximations of the hydraulic conductivity since the tests reflect localized conditions only. The AQTESOLV™ computer printouts are included in Appendix F.

3.0 GEOLOGY AND HYDROGEOLOGY

Data collected during the site assessment were used to evaluate geologic and hydrogeologic conditions at the site that may influence the fate and transport of hydrocarbons released to the environment. Lithology and stratigraphy were described for the vadose zone and shallow surficial aquifer at the site. Aquifer properties evaluated as part of the site assessment included depth to groundwater and groundwater elevation, groundwater flow direction and gradient, hydraulic conductivity of the shallow water bearing zone, and groundwater flow velocity. Potable water supply and irrigation wells and surface water bodies in the vicinity of the site were investigated as potential groundwater exposure paths.

3.1 SITE STRATIGRAPHY

Interpretation of site lithology and stratigraphy was based on visual examination of soil cores collected from soil borings during the DPT investigation and drill cuttings observed during the monitoring well installation. Soil boring logs from the DPT investigation are included in Appendix C.

The typical lithology at the site is yellowish brown to light brown to white, silty fine to medium grained sand (Figure 3-1). This lithology was encountered across the site from ground surface to depths of approximately 15 to 16 feet where an approximately 1-foot thick peat layer was encountered. The peat layer was encountered at locations (Prefix NASP-1932-) SB-3, SB-6, SB-7, SB-8, SB-9, SB-10, SB-11, MW-1, MW-4, MW-14, MW-15, MW-18, MW-21, MW-22, MW-23, MW-24D, and MW-25D. The tannic acid infusing the groundwater around the peat layers causes the sand to appear dark brown. A number of other borings encountered the dark brown tannic acid colored saturation prior to penetrating the peat. This tannic acid saturation generally occurred approximately 1 foot above the peat. Other than the peat layers, lithologies that would indicate potential confining layers were not encountered during the site assessment.

Regionally the surface lithology is consistent with correlation to the Pleistocene Terrace deposits and Citronelle Formation (Undifferentiated). This stratigraphic unit is described as sand with lenses of clay and gravel. The sand is light-yellowish brown to reddish-brown color, very fine to very coarse and poorly sorted. Logs and carbonaceous zones are present in places. Fossils are extremely rare except near the coast (Marsh, 1966). These formations together with the underlying Miocene Coarse Clastics make up the surficial sand and gravel aquifer. The Pensacola Clay Aquiclude, underlying the Miocene Coarse Clastics, would be the lower-confining unit for the area.

The Clay is interpreted to be encountered approximately 400 to 600 feet below sea level in the vicinity of the Pensacola Naval Air Station (Marsh, 1966).

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 and water table gradient at the site. Hydraulic conductivity values for the shallow surficial aquifer were calculated from data collected during the slug tests. Groundwater flow velocity at the site was estimated from the hydraulic conductivity and gradient data.

3.2.1 Free Product Thickness Measurements

Free product thickness measurements were recorded from site monitoring wells during three gauging events, on August 5, 2000, November 8, 2000, and May 1, 2001. The initial measurement period in August 2000 included the only existing monitoring well, MW-1, installed during a previous investigation. The latter two events included all monitoring wells on site. Free product measurements ranged from a visible sheen to 1.14 feet in thickness. Four of the monitoring wells at the site have contained a measurable thickness of free product and six of them contained a visible sheen. During the initial DPT sampling in August 2000, MW-1 contained 0.98 feet of dark black free product. The water table was low due to drought conditions then. During the November 2000 monitoring well installation the water table had risen approximately 2 feet and the free product layer was gone in MW-1. TtNUS believes that there are two plumes that have merged. One from waste oil and one from diesel fuel. Location MW-15 contains the greatest recorded thickness of lighter colored diesel free product and diminished from 1.14 feet in thickness during the November 2000 event and reduced to 0.26 feet during the May 2001 event. Both plumes of free product have diminished due to the rise in the water table. Free product from the waste oil has a greater viscosity and makes it more easily trapped in the soils. Figures 3-2 and 3-3 present the free product thickness measurements from the November 2000 and May 2001 measurement events, respectively.

A determination of free product contaminant mass was completed for the site. The determination was completed using the formula:

$$\text{Total free product mass} = A * T * n * Cf * 49.12\ \text{lb/ft}^3$$

where:

T = Average observed thickness (feet) = 0.5 ft
A = Total area of plume (feet^2) = 31,400 ft^2
n = Porosity = 0.30
Cf = Correction factor for soil type (0.50 for sand)

The area of the plume was used from the November 2000 event, assuming the total area of the free product plume more closely reflects conditions during the times of lower water table. An average thickness of 0.5 feet was chosen since the greatest observed thickness of diesel was 1.14 feet and 0.98 feet was the maximum observed thickness of waste oil. Since TtNUS believes the waste oil to be trapped in the soil, an overall average of thickness of 0.5 feet is assumed to be more representative of site conditions. Porosity of 30% represents the maximum range of porosity for a perfectly packed media of rounded grains and is a more conservative estimate. Based on the above assumptions the free product contaminant mass is estimated at 115,678 lbs.

3.2.2 Static Water Level and Groundwater Elevations

Static water level (SWL) measurement data were recorded from site monitoring wells during three gauging events, on August 5, 2000, November 8, 2000, and May 1, 2001. The SWL measurement data and the relative elevations from the well TOC survey were used to determine relative groundwater elevations at each well. Because only one monitoring well existed in the August event, SWL measurements from the November 2000 and May 2001 events only were used to develop potentiometric surface maps, Figures 3-4 and 3-5, respectively.

When the SWL measurements were collected on August 5, 2000, the facility had been under drought conditions for an extended period of time and water levels were believed to be considerably lower than typical for the site. On August 5, 2000 the depth to product in MW-1 was 13.19 feet below top of casing (BTOC) and the depth to water was 14.17 feet BTOC giving a free product thickness of 0.98 feet. The SWL measurements for MW-1, recorded on November 8, 2000, indicated only a depth of 11.71 feet BTOC with a trace of free product. The SWL measurements for MW-1, recorded on May 1, 2001, indicated a depth to water of only 11.69 feet with a sheen of free product. TtNUS suggests the free product may be trapped in the soil after the sudden rise in the water table.

The SWL measurements recorded on November 8, 2000 indicate water levels in the shallow wells ranged from 10.18 feet BTOC in NASP-1932-MW-13 to 12.33 feet BTOC in NASP-1932-MW-18 (Table 3-1). The SWL measurements in the intermediate wells NASP-1932-MW-24D and MW-25D were 12.23 feet BTOC and 12.76 feet BTOC, respectively.

The SWL measurements recorded on May 1, 2001 indicate water levels in the shallow wells ranged from 10.44 feet BTOC in NASP-1932-MW-13 to 12.37 feet BTOC in NASP-1932-MW-18 (Table 3-1). The SWL measurements in the intermediate wells NASP-1932-MW-24D and NASP-1932-MW-25D were 12.08 feet BTOC and 12.58 feet BTOC, respectively.

The SWL measurements in the intermediate depth wells appear to vary significantly from those in the adjacent shallow wells. The intermediate wells that were screened below the peat layer contained SWLs consistently approximately 1 foot deeper than the adjacent shallow wells. This condition indicates that the peat layer acts as an aquitard and that there is the potential for downward migration. Another feature noted by TtNUS is the increased gradient to the north of Building 1932. This condition is interpreted to represent groundwater mounding resulting from runoff into grassy areas from the wide expanses of concrete and asphalt cover. During gauging events, groundwater elevations were generally highest to northwest and decreased to the southeast side of the site (Figures 3-4 and 3-5, respectively).

3.2.3 Groundwater Flow Direction

To evaluate the direction of groundwater flow at the site, the groundwater elevations were plotted on a site map for the November 2000 and May 2001 events (Figures 3-4 and 3-5). Groundwater elevation isocontours were drawn from the plotted data. Groundwater flow direction is predicted to be perpendicular to the elevation isocontours. Interpretation of data from the site gauging event indicates that groundwater flow in the shallow surficial aquifer is generally to the south southeast, away from Building 1932 toward Pensacola Bay (Figures 3-4 and 3-5).

3.2.4 Water Table Gradient

The average horizontal groundwater gradient across the site was calculated for the November gauging event from the groundwater elevations measured in shallow monitoring wells and the estimated groundwater flow direction.

The groundwater flow gradient was determined using the following equation:

$$I = \frac{h_1 - h_2}{d}$$

Where:

I = the hydraulic gradient
h_1 = the water elevation at point 1, the highest value
h_2 = the water elevation at point 2, the lowest value
d = the horizontal distance between point 1 and point 2 parallel to the direction of groundwater flow

The highest and lowest groundwater elevation values measured in shallow monitoring wells during each gauging event were used to determine the difference in groundwater elevation across the site. The horizontal distance between the high and low groundwater elevation points was measured parallel to the estimated groundwater flow direction.

On November 8, 2000, the groundwater elevation in NASP-1932-MW-3, 20.85 feet, was the highest value and the groundwater elevation in NASP-1932-MW-17, 18.96 feet, was the lowest value parallel to groundwater flow. The horizontal distance parallel to groundwater flow was 406 feet. These data indicate an average hydraulic gradient of 0.00466 feet/foot. On May 1, 2001, the groundwater elevation in NASP-1932-MW-3, 21.12 feet, was the highest value and the groundwater elevation in NASP-1932-MW-17, 18.93 feet, was the lowest value parallel to groundwater flow. These data indicate an average hydraulic gradient of 0.00539 feet/foot.

3.2.5 Hydraulic Conductivity

Hydraulic conductivity values for the site were calculated from the slug test data from monitoring wells NASP-1932-MW-2, NASP-1932-MW-3, NASP-1932-MW-6, NASP-1932-MW-17, and NASP-1932-MW-24D. Slug test data are summarized below and contained in Appendix D.

During the slug tests, recovery data were recorded until conditions of approximately 90 percent of the initial water level were achieved. The recovery data was then analyzed following the Bouwer and Rice (1976) method for unconfined aquifers using the AQTESOLV™ (Duffield, Glenn M., 1996) computer program. The program was used to calculate the hydraulic conductivity (K) of the shallow aquifer.

The slug test results for the four shallow monitoring wells show K ranges between 5.867×10^{-2} cm/sec (NASP-1932-MW-17) and 7.002×10^{-2} cm/sec (NASP-1932-MW-3). The geometric mean of the four shallow wells for K at the site is 6.5412×10^{-2} cm/sec or approximately 185 ft/day. The slug-in and slug-out test results for the one intermediate well (MW-24D) show K ranges between 3.229×10^{-1} cm/sec (slug-out) and 1.334×10^{-2} cm/sec (slug-in). The geometric mean of the

results for K at the MW-24D location is 6.5631 x 10^{-2} cm/sec or 186 ft/day. These values of K correspond to typical values of K for a "Clean Sand" (Freeze and Cherry, 1979).

Site specific transmissivity values were calculated from the hydraulic conductivity by using the following equation:

$$T=Kb_e$$

Where:

T = transmissivity
K= hydraulic conductivity (ft/day)
b_e = affected aquifer thickness

The shallow surficial aquifer was estimated to have a saturated thickness of 90 feet. Using a hydraulic conductivity of 185 feet per day (the geometric mean for the four shallow wells) and 90 feet for the affected aquifer thickness, the transmissivity value calculated is approximately 16,650 square feet per day. The transmissivity value calculated using the geometric mean for the slug-in and slug-out results for the intermediate well is approximately the same.

3.2.6 Groundwater Velocity

Potential movement of groundwater at the site may be described in terms of transportation by natural flow in the saturated zone while assuming groundwater flow follows Darcy's Law. Darcy's Law may be expressed as:

$$V = \frac{(K \times I)}{n}$$

Where:

V = average seepage velocity
K = hydraulic conductivity
n = effective porosity
I = average hydraulic gradient

Data from soil borings advanced during the DPT investigation indicate that silty fine sand and fine sand are the typical lithologies at the site. Review of standard literature suggests that a representative effective porosity for this lithology is approximately 30% (Heath, 1983).

Using an average hydraulic conductivity of 185 feet/day, an average hydraulic gradient of 0.00466 feet/foot, an effective porosity value of 30%, and Darcy's Equation, the estimated groundwater seepage velocity averaged across the site was calculated at 2.874 feet/day.

3.2.7 Potable Water Supply Well Survey

Three water wells at NAS Pensacola provide an emergency backup potable water supply to the NAS. These wells have typically been used as fire fighting water supply sources. One of the potable water supply wells (designated as well No. 3) has been abandoned. The remaining two potable supply wells located at NAS Pensacola, designated as Wells No. 1 and No. 2, are indicated on Figure 3-6. According to NAS personnel, these wells are not currently used for potable water supplies at NAS Pensacola, but are available as reserve potable water supplies should the need arise. Potable well inventory data are presented in Table 3-2. Both wells at NAS Pensacola are screened in the main producing zone of the sand-and-gravel aquifer at depths ranging from 105 to 160 feet bls. The main source of water for the base is a Navy-owned well field located at the Naval Technical Training Center, Corry Station. The water from this well field is pumped from the sand-and-gravel aquifer.

3.2.8 Surface Water

The nearest downgradient naturally occurring surface water body in the vicinity of the site is Pensacola Bay located approximately 1,800 feet south of the site.

4.0 SITE ASSESSMENT RESULTS

Soil samples were collected at the Building 1932 UST Site 000025 for headspace screening and/or laboratory analysis during the preliminary assessment. The headspace screening results were evaluated following the appropriate 62-770 F.A.C. guidelines. The results of laboratory soil analyses were compared to the soil cleanup target levels (SCTLs) and appropriate 62-777 F.A.C. requirements.

Groundwater samples were also collected at Building 1932 during the preliminary assessment. The results of groundwater analyses were compared to the groundwater cleanup target levels (GCTLs) and appropriate 62-777 F.A.C. requirements.

4.1 SOIL ASSESSMENT RESULTS

During the preliminary assessment, 15 out of 31 soil borings had a corrected headspace screening response greater than 50 ppm, indicating that “excessively contaminated soil”, as defined by 62-770 F.A.C., was present at the site. The remaining 16 soil borings had headspace screening responses ranging from 0 to 3 ppm. Following the initial screening process, soil samples were collected from borings with low, medium, and high range responses and submitted to a laboratory for analysis. BTEX, PAH, and TRPH compounds were reported at concentrations exceeding SCTLs in samples ranging from low to high headspace readings. Generally, the higher range screening had greater concentrations.

Soil boring location NASP-1932-SB-4 from 8-12 feet BLS (corrected headspace of 0 ppm) contained no concentrations above detection limits or above SCTLs. Location NASP-1932-SB-4 was chosen to collect a sample from 12-16 feet BLS for total organic carbon (TOC) analysis and was reported at 46,900 mg/kg. This sample included portions of the overlying sand and portions of the peat layer. Soil boring location NASP-1932-SB-6 from 10-12 feet BLS (corrected headspace of 1 ppm) contained no concentrations above detection limits or above SCTLs. Location NASP-1932-SB-6 was chosen to collect a sample from 15-16 feet BLS for total organic carbon (TOC) analysis and was reported at 244,000 mg/kg. This sample included portions from the peat layer. Site location NASP-1932-SB-5 from 8-12 feet BLS (medium corrected headspace of 265 ppm) contained concentrations of 3.0 mg/kg 1-methylnaphthalene and 3,100 mg/kg TRPH that exceeded SCTLs. Site location NASP-1932-SB-11 from 12-15 feet BLS (high corrected headspace of 500 ppm) contained concentrations of 54.0 mg/kg 1-methylnaphthalene, 78.0 mg/kg 2-methylnaphthalene, 4.9 mg/kg acenaphthene, 0.17 mg/kg benzo(a)pyrene, and 14,000 mg/kg TRPH that exceeded SCTLs.

4.1.1 DPT Headspace Screening

Preliminary assessment activities were conducted to determine the extent of the petroleum-impacted soil in the vadose zone. Soils exhibiting a headspace screening response of greater than 50 ppm are considered "excessively contaminated" as defined by Chapter 62-770.200, F.A.C. for the Kerosene Analytical Group. The extent of excessively contaminated soil was assessed through soil headspace screening performed during the DPT and monitoring well investigations. A summary of soil OVA screening results are presented in Table 4-1. Soil boring locations and soil headspace readings for the 0 to 4 feet BLS depth are shown on Figure 4-1. Soil boring locations and soil headspace readings for the 4 to 8 feet BLS depth and the sample immediately above the water table are shown on Figure 4-2 and Figure 4-3, respectively.

4.1.2 Laboratory Soil Sample Analysis

Soil samples (NASP-1932-SB-1, NASP-1932-SB-3, NASP-1932-SB-4, NASP-1932-SB-5, NASP-1932-SB-6, NASP-1932-SB-7, and NASP-1932-SB-11) were collected from inside and outside of the source area for laboratory analysis to correlate with the headspace screening results (Figures 4-1, 4-2, and 4-3). Laboratory analytical reports can be found in Appendix D and Table 4-2 contains a summary of the soil analytical results.

Ethylbenzene was reported in the soil sample NASP-1932-SB-1 (10-14 feet BLS) at a concentration of 0.81 mg/kg, NASP-1932-SB-3 (12-14 feet BLS) at a concentration of 0.97 mg/kg, and NASP-1932-SB-7 (10-14 feet BLS) at a concentration of 1.2 mg/kg, which are above the leachability for groundwater SCTL of 0.6 mg/kg (Table 4-2).

Total xylene was reported in the soil sample NASP-1932-SB-1 (10-14 feet BLS) at a concentration of 1.1 mg/kg and in the soil sample NASP-1932-SB-7 (10-14 feet BLS) at a concentration of 0.32 mg/kg, which are above the leachability for groundwater SCTL of 0.2 mg/kg (Table 4-2).

1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were reported in the soil sample NASP-1932-SB-1 (10-14 feet BLS) at concentrations of 12 mg/kg, 17 mg/kg, and 4.7 mg/kg, respectively, which are above the respective leachability for groundwater SCTLs of 2.2 mg/kg, 6.1 mg/kg, and 1.7 mg/kg (Table 4-2). Phenol was also reported in this sample at an estimated concentration of 0.82 mg/kg, which is above the respective leachability for groundwater SCTL of 0.05 mg/kg. 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were reported in the

soil sample NASP-1932-SB-7 (10-14 feet BLS) at concentrations of 14.0 mg/kg, 19.0 mg/kg, and 4.7 mg/kg, respectively. 1-methylnaphthalene and 2-methylnaphthalene were reported above the leachability for groundwater SCTL in the soil samples NASP-1932-SB-3 (12-14 feet BLS) and NASP-1932-SB-11 (12-15 feet BLS) at concentrations of 4.4 mg/kg and 54 mg/kg, and 6.3 and 78 mg/kg, respectively. A detected concentration of (3 mg/kg) 1-methylnaphthalene was reported in soil boring NASP-1932-SB-5 (8-12 feet BLS) that exceeds the leachability for groundwater SCTL of 2.2 mg/kg. Location NASP-1932-SB-11 was also reported to contain 4.9 mg/kg acenaphthene that exceeds the leachability for groundwater SCTL of 2.1 mg/kg and 0.17 mg/kg benzo(a)pyrene that exceeds the direct exposure limit for residential area SCTL.

Total recoverable petroleum hydrocarbons (TRPH) were reported in the soil sample NASP-1932-SB-1 (10-14 feet BLS) at a concentration of 6,500 mg/kg, which is above the leachability for groundwater and direct exposure limit for residential area SCTLs of 340 mg/kg (Table 4-2). TRPH was reported above the SCTL in the soil samples NASP-1932-SB-3 (12-14 feet BLS), NASP-1932-SB-5 (8-12 feet BLS), NASP-1932-SB-7 (10-14 feet BLS), and NASP-1932-SB-11 (12-15 feet BLS) at concentrations of 2,700 mg/kg, 3,100 mg/kg, 4,700 mg/kg, and 14,000 mg/kg, respectively.

4.1.3 Estimated Mass of Contaminants in Soil

Net soil vapor readings in excess of 50 ppm were used to define “excessively contaminated soil” in accordance with Rule 62-770.200(2), FAC. For the site area, the area of impacted soil was calculated by assuming a representative geometric shape (an ellipse), then calculating the area based on the equation:

$$\textbf{Area} = \pi(rA)(rB)$$

where:

r = the radius of the axis
A = the long axis of the ellipse
B = the short axis of the ellipse

The volume of the soil was calculated using the equation:

$$\textbf{Volume} = (\textbf{Area})(\textbf{Depth})$$

where:

Area = calculated area in square feet
Depth = average vertical extent of contaminated soil in feet

The mass of contaminants in vadose zone soil was calculated using the following equation:

$$\textbf{Mass} = \textbf{Volume ft}^3 \times \frac{1\ \text{yd}^3}{27\ \text{ft}^3} \times \frac{1.4\ \text{tons}}{1\ \text{yd}^3} \times 1016\frac{\text{kg}}{\text{ton}} \times \frac{\text{mg}}{\text{kg}}\text{TRPH} \times \left(1.0 \times 10^{-6}\right)\frac{\text{kg}}{\text{mg}} \times 2.204623\frac{\text{lb}}{\text{kg}}$$

where:

TRPH = arithmetic mean of Total Recoverable Petroleum Hydrocarbon concentrations.

The estimated mass of contaminants was calculated for three elliptical areas with OVA responses above 50 ppm, from 0-4 feet BLS, from 4-8 feet BLS, and from 8-12 feet BLS (Figures 4-1, 4-2, and 4-3). An ellipse encompassing the 50 ppm contour range was used from Figure 4-1, Figure 4-2, and Figure 4-3 for the area of each interval. The estimated mass of contaminants for the three combined areas was calculated to be approximately 262,288 lbs.

Soil volume and contaminant mass calculations for each site are provided in Appendix G. The estimated mass does not include contamination dissolved in soil pore water.

4.2 GROUNDWATER ASSESSMENT RESULTS

During the site assessment, twenty-three groundwater samples were collected from monitoring wells installed within and surrounding the source area and were submitted to a laboratory for analysis. The petroleum constituents benzene, ethylbenzene, xylene, 1,2,4-trimethylbenzene, 3,4-methylphenol, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, benzo(a)anthracene, phenol, and TRPH were reported at concentrations exceeding Florida groundwater cleanup target levels, as provided in Chapter 62-777, F.A.C., (GCTLs) in these samples. (Vinyl chloride was detected in the sample from the intermediate well MW-24D at a concentration of 3.2 µg/l and exceeds the GCTL of 1.0 µg/l. Since it was not detected in the shallow aquifer it is inferred to be from an upgradient source.)

4.2.1 Monitoring Well Sampling

Groundwater samples were collected from twenty-one shallow monitoring wells and two intermediate monitoring wells installed at the site (Figure 2-2). Monitoring well locations MW-19 and MW-15 were not sampled due to the presence of free product. Twenty-three groundwater samples were collected and analyzed for VOCs, SVOCs, PAHs, EDB, TRPH, arsenic, cadmium, chromium, and lead at an offsite laboratory (Table 4-3). The laboratory analytical reports can be found in Appendix D.

Twenty-one VOCs were detected in the groundwater samples collected from shallow monitoring wells; however, only eight of the analytes including 1,3,5-trimethylbenzene, naphthalene, 1,2,4-trimethylbenzene, benzene, ethylbenzene, xylenes, vinyl chloride, and methylene chloride were detected at concentrations exceeding Florida GCTLs.

Benzene concentrations exceeding the GCTL of 1 µg/l were reported in six groundwater samples submitted to the laboratory at concentrations ranging from 1 to 19 µg/l (Figure 4-4, Table 4-3). The GCTL for ethylbenzene of 30 µg/l was exceeded in samples from five monitoring wells (Figure 4-5). Ethylbenzene concentrations exceeding the GCTL were reported to range from 30 to 69 µg/l. The GCTL for total xylene of 20 µg/l was exceeded in samples from six monitoring wells (Figure 4-6). Total xylene concentrations exceeding the GCTL were reported to range from 25 to 320 µg/l. The GCTL for naphthalene of 20 µg/l was exceeded in samples from nine monitoring wells (Figure 4-7). Total naphthalene concentrations exceeding the GCTL were reported to range from 25 to 220 µg/l.

Fifteen SVOCs were detected in the groundwater samples collected at UST Site 000025; however, only six of the analytes including 3,4-methylphenol, 2-methylnaphthalene, benzo(k)fluoranthene, naphthalene, phenol, and benzo(a)anthracene were detected at concentrations exceeding Florida GCTLs.

There was one exceedance of the vinyl chloride GCTL of 1 µg/l in NASP-1932-MW-24D at a concentration of 3.2 µg/l. There was one detection for lead in NASP-1932-MW-8 that did not exceed the GCTL of 15 µg/l. MTBE was detected in monitoring well NASP-1932-MW-8 at a concentration of 11 µg/l and NASP-1932-MW-20 at 13 µg/l, both below the GCTL of 50 µg/l. There were no detections of 1, 2 dibromoethane (EDB) in any of the samples.

One or more of the detected analytes reported at concentrations exceeding Florida GCTLs were detected in groundwater samples from monitoring wells MW-1, MW-2, MW-7, MW-9, MW-14, MW-16, MW-18, MW-20, and MW-21.

TRPH was detected in groundwater samples from 15 of the onsite monitoring wells. Detected concentrations ranged from 5,400 to 39,000 µg/l. All of the detected concentrations exceeded the Florida GCTL of 5,000 µg/l. Inorganic analytes were detected in groundwater samples from 13 of the shallow monitoring wells; however, none of the detected concentrations exceeded Florida GCTLs.

Four VOCs were detected in the intermediate monitoring well NASP-1932-MW-24D; however only one of the analytes, vinyl chloride, exceeded the Florida GCTL. No VOCs were detected in the other intermediate monitoring well NASP-1932-MW-25D. No SVOCs, PAHs, or TRPH were detected in either of the intermediate monitoring wells. Estimated concentrations of chromium and arsenic were detected in NASP-1932-MW-24D and NASP-1932-MW-25D, respectively; however, neither concentration exceeded Florida GCTLs.

5.0 DISCUSSION

The significant findings from each phase of site assessment activities are discussed below.

5.1 SOURCE OF HYDROCARBONS

A 40-inch by 45-inch, 500-gallon capacity, steel used oil tank (1932F) was located along the west wall of Building 1932 and received waste oil from service station activities. The waste oil UST was closed by removal in August 1994 and a release was reported based on discolored soil and corresponding organic vapor analyzer (OVA) response indicative of petroleum. After the release was reported, a monitoring well was installed and sampled in March 1995 in the former tank hold location. Naphthalene and xylenes were detected at concentrations exceeding the Florida groundwater concentration target levels (GCTLs).

In August 2000, TtNUS mobilized to the site to perform further DPT assessment of the extent of the known contamination in both soil and groundwater with respect to the former waste oil tank. Almost a foot of thickness of dark black free product was discovered in the NASP-1932-MW-1 monitoring well location and the assessment was expanded. Borings adjacent to the former dispenser island and former tank pit revealed excessively contaminated soil and groundwater contamination. A total of 24 additional monitoring wells were installed around the site to define the extent of free product and the extent of soil and groundwater contamination. The results of this investigation reveal the greatest soil and groundwater contamination from diesel fuel to be centered on the former dispenser island and tank pit. Other soil and groundwater contamination from the former waste oil tank appears to have merged with the diesel contaminant plume.

During this investigation another potential source for the contamination was revealed. Currently unused aboveground storage tanks (ASTs) 1942A and 1942B supplied diesel fuel in the past to the former steam plant, Building 1857 (Figure 1-3). Discussions with former plant personnel revealed that “periodically the product line trenches would fill up with diesel and would have to be flushed out”. Whether or not the contaminant plume was the result of this possible source, the contaminated soil extends to the surface and is concentrated around the former dispenser island and former tank pit. For these reasons, TtNUS suggests that a leak at the former tank pit and/or former dispenser island as the most likely source of contamination and the other potential sources may have added to the problem.

5.2 SITE CONDITIONS

The site is underlain by silty sand and sandy units of the shallow surficial “sand-and-gravel” aquifer to a depth of approximately 500 feet where the top of the Pensacola Clay has been mapped (Marsh, 1966). Lithologies suggesting the presence of semi-confining layers were observed at the site in the form of approximately 1-foot thick layers of peat approximately 16 feet BLS. Depth to water in the surficial aquifer ranged from approximately 10.18 feet to 12.33 feet BTOC during November 2000 and approximately 10.44 feet to 12.37 feet BTOC during May 2001. Relative groundwater elevations were calculated from the static water levels and TOC elevation survey data. This data was used to calculate the groundwater flow direction and water table gradient at the time of the November 2000 and May 2001 gauging events. The groundwater flow at the site is to the south-southeast. The average groundwater gradient determined for the site was calculated to be approximately 0.00466 feet/foot. The groundwater elevation in the intermediate wells, NASP-1932-MW-24D and NASP-1932-MW-25D was approximately 1.0 foot lower than the groundwater elevation in the adjacent shallow wells, NASP-1932-MW-9 and NASP-1932-MW-23, respectively, therefore indicating a potential downward flow. The peat layer observed at the site may act as an aquitard. Hydraulic conductivity values for the site were determined from slug tests and averaged approximately 185 to 186 feet per day. The groundwater seepage velocity was calculated from gradient and hydraulic conductivity values and is estimated at 2.874 feet/day. No active potable water supply wells were identified within a 0.50-mile radius of the site. Pensacola Bay, approximately 1800 feet southeast from the site is the nearest downgradient surface water body.

5.3 SOIL ASSESSMENT

During the site assessment investigation, soil borings were advanced to a depth of approximately 12 to 40 feet below ground surface (BLS) at 35 locations. The results of the assessment indicated that petroleum constituents were present in site soil around the former UST tank pit location at concentrations exceeding the requirements specified in 62-770 F.A.C. and 62-777 F.A.C. Based on the headspace screening results, surface soils at the site are unaffected. “Excessively contaminated soils” were present in the 0 to 12 feet BLS range in the area surrounding the former dispenser island and former tank pits (Figures 4-1, 4-2, and 4-3). Analytical results from the laboratory indicated that ethylbenzene, total xylene, 1,2-methylnaphthalene, naphthalene, and TRPH concentrations in five soil samples from the former tank pit area exceeded the SCTLs. The horizontal and vertical extent of petroleum contaminated soil has been delineated.

5.4 GROUNDWATER ASSESSMENT

A single area of free product accumulation exists beneath the former dispenser island and former tank pit area and extends to the south and southeast (Figures 3-2 and 3-3). The horizontal extent of free product has been delineated.

Based on the results of the groundwater assessment, concentrations of dissolved petroleum constituents appear to be moving slowly to the south-southeast at the site since the release prior to 1994. Locations with exceedances of the GCTLs detected during the groundwater assessment included the areas immediately downgradient from the former dispenser island and former tank pit area. Analytical results from the laboratory indicated that benzene, ethylbenzene, total xylene, 1,2-methylnaphthalene, naphthalene, and TRPH concentrations in fifteen samples from the site exceeded the GCTLs. No GCTL exceedances were detected in the groundwater sample from the intermediate vertical extent well, NASP-1932-MW-25D. One GCTL exceedance for vinyl chloride was detected in the groundwater sample from the intermediate vertical extent well, NASP-1932-MW-24D. This exceedance is inferred to be from an upgradient source from the site because it was not detected in any of the shallow wells.

The occurrence of the continuous peat layer at approximately 16 feet BLS as an aquitard also acts as a natural organic filter and appears to be limiting the vertical extent of contamination. The intermediate vertical extent wells, NASP-1932-MW-24D and NASP-1932-MW-25D that were set with well screens considerably below the peat, were reported to contain no petroleum constituents above the GCTLs. The horizontal and vertical extent of petroleum contaminated groundwater has been delineated.

6.0 CONCLUSIONS AND RECOMMENDATION

The conclusions based on the data collected during the site assessment performed by TtNUS at the Building 1932, UST Site 000025, are summarized as follows:

- Excessively contaminated soil, exceeding 62-770 F.A.C. and 62-777 F.A.C. SCTLs, has not been removed from the vadose zone at the site but is generally limited to the immediate vicinity of the former dispenser island south of the building and the former UST tank pit,

- The horizontal and vertical extent of petroleum contaminated soil has been delineated,

- Free-product accumulations within existing site monitoring wells ranges from a sheen to over 1.0 feet in thickness,

- The horizontal extent of free product has been delineated,

- Concentrations of dissolved petroleum contaminants of concern in site groundwater exceed 62-770 F.A.C. and 62-777 F.A.C. GCTLs,

- The horizontal and vertical extent of petroleum contaminated groundwater has been delineated, and

- Exposure pathways to human receptors via surface water or supply wells are not complete.

Based upon the hydrogeological and chemical data presented in this SAR and the requirements of Chapter 62-770 and 62-777, F.A.C., TtNUS recommends that a Remedial Action Plan (RAP) be completed and active remediation of the free-product and soils be addressed. Following active remediation, measurement of natural attenuation parameters of the onsite groundwater should be performed.

TtNUS recommends completion of a RAP and free product removal at the site should be initiated immediately and continued until an active recovery system is installed.

PROFESSIONAL CERTIFICATION

Site Assessment Report
Underground Storage Tank Site 000025
Building 1932, Navy Excange "Touch-n-Go" Service Station
Naval Air Station Pensacola, Pensacola, Florida

This Site Assessment Report 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 A. Walker, P.G.
Florida License No. PG-0001180

Sept 24, 2001
Date

REFERENCES

Bouwer, H., and R.C. Rice, 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifer with Completely or Partially Penetrating Wells, Water Resources Research, Volume 12, No. 3, p. 423-428.

E. C. Jordan, 1990, final Pilot study Plan Forrest Sherman Field, Pensacola Naval Air Station, Pensacola, Florida, January 1990.

Freeze, R. Allan, and Cherry, John A., 1979, Groundwater, Prentice-Hall, Inc., 553 pp.

Duffield, Glenn M., 1996. Aquifer Test Solver, Version 2.5 (AQTESOLV TM ARCADIS Geraghty and Miller) HydroSOLVE, Inc.

Heath, R., 1983, Basic Groundwater Hydrology, U.S.G.S. Water Supply Paper 2220, 84 pp.

Marsh, Owen T., 1966, Geology of Escambia and Santa Rosa Counties, Western Florida Panhandle, Florida Geological Survey Bulletin No. 46, pp.1-140.

TABLE 2-1
MONITORING WELL CONSTRUCTION DETAILS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Well No.	Date Installed	Drilling Method	Top of Casing Elevation[1]	A/G Riser Length, If Applicable	Total Well Depth (FBTOC)	Screened Interval (FBTOC)	Well Diameter (Inches)	Lithology of Screened Interval
NASP-1932-MW-1	3/13/1995	HSA	31.055	NA	16.34	5.85 - 15.85	2	dark-gray to black silty fine-med Sand
NASP-1932-MW-2	9/9/2000	HSA	31.070	NA	15.50	5.0 - 15.0	2	yellowish to white to dark-brown silty fine-med Sand
NASP-1932-MW-3	9/9/2000	HSA	31.490	NA	15.92	5.42 - 15.42	2	interlayered white to dark-brown silty fine-med Sand
NASP-1932-MW-4	9/10/2000	HSA	31.600	NA	16.08	5.58 - 15.58	2	white "beach" to dark-brown silty fine-med Sand
NASP-1932-MW-5	9/8/2000	HSA	31.240	NA	15.50	5.0 - 15.0	2	white "beach" silty fine-med Sand
NASP-1932-MW-6	9/10/2000	HSA	29.810	NA	16.05	5.55 - 15.55	2	white "beach" silty fine-med Sand
NASP-1932-MW-7	9/8/2000	HSA	30.760	NA	14.62	4.12 - 14.12	2	lt.-brown to black mottled silty fine-med Sand
NASP-1932-MW-8	9/9/2000	HSA	31.250	NA	15.54	5.04 - 15.04	2	white "beach" silty fine-med Sand
NASP-1932-MW-9	9/6/2000	HSA	30.070	NA	15.60	5.10 - 15.10	2	white "beach" silty fine-med Sand
NASP-1932-MW-10	9/6/2000	HSA	31.090	NA	15.95	5.45 - 15.45	2	white "beach" silty fine-med Sand
NASP-1932-MW-11	9/6/2000	HSA	30.640	NA	16.50	6.0 - 16.0	2	white "beach" silty fine-med Sand
NASP-1932-MW-12	9/9/2000	HSA	29.210	NA	15.85	5.35 - 15.35	2	white "beach" silty fine-med Sand
NASP-1932-MW-13	9/9/2000	HSA	28.830	NA	16.10	5.6 - 15.6	2	white "beach" to dark-brown silty fine-med Sand
NASP-1932-MW-14	9/8/2000	HSA	31.400	NA	15.85	5.35 - 15.35	2	white "beach" to dark-brown silty fine-med Sand and dark-brown Peat at the bottom
NASP-1932-MW-15	9/9/2000	HSA	31.195	NA	15.85	5.35 - 15.35	2	lt.-gray to black mottled silty fine-med Sand and dark-brown Peat at the bottom
NASP-1932-MW-16	9/9/2000	HSA	31.250	NA	15.81	5.31 - 15.31	2	lt.-brown to dark-gray mottled silty fine-med Sand
NASP-1932-MW-17	9/9/2000	HSA	30.150	NA	15.78	5.28 - 15.28	2	white "beach" silty fine-med Sand
NASP-1932-MW-18	9/11/2000	HSA	31.910	NA	15.82	5.32 - 15.32	2	dark-gray to black mottled silty fine-med Sand and dark-brown Peat at the bottom
NASP-1932-MW-19	9/11/2000	HSA	31.480	NA	16.00	5.50 - 15.50	2	white "beach" silty fine-med Sand
NASP-1932-MW-20	9/11/2000	HSA	31.280	NA	16.14	5.64 - 15.64	2	lt.-brown silty fine-med Sand
NASP-1932-MW-21	9/9/2000	HSA	31.200	NA	15.79	5.29 - 15.29	2	lt.-brown to white "beach" silty fine-med Sand and dark-brown Peat at the bottom

TABLE 2-1
MONITORING WELL CONSTRUCTION DETAILS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Well No.	Date Installed	Drilling Method	Top of Casing Elevation[1]	A/G Riser Length, If Applicable	Total Well Depth (FBTOC)	Screened Interval (FBTOC)	Well Diameter (Inches)	Lithology of Screened Interval
NASP-1932-MW-22	9/13/2000	HSA	31.840	NA	15.80	5.30 - 15.30	2	lt.-Brown to dark-brown silty fine-med Sand and dark-brown Peat at the bottom
NASP-1932-MW-23	9/14/2000	HSA	30.965	NA	15.80	4.5 - 14.5	2	white "beach" to dark-brown silty fine-med Sand, dark-brown Peat at 16.5 to 17 ft. BGS (based on SB-10), then dark-Brown to yellowish-brown silty fine-med Sand to 20 ft. BGS
NASP-1932-MW-24D	9/14/2000	HSA	29.900	NA	39.60	34.10 - 39.10	2	lt. Brown to white "beach" silty fine-med Sand and dark brown Peat at 19-20 ft. BGS, then lt. Brown to white "beach" silty fine-med Sand to 40 ft. BGS
NASP-1932-MW-25D	9/11/2000	HSA	30.750	NA	38.55	33.05 - 38.05	2	white "beach" to dark-brown silty fine-med Sand, dark-brown Peat at 16.5 to 17 ft. BGS (based on SB-10), then dark-Brown to yellowish-brown silty fine-med Sand to 20 ft. BGS

NOTES:

(1)	Top of casing elevations referenced to the relative benchmark of 33 feet established at the southeastern corner of the current AST containment wall.
D	Indicates intermediate (Type 2) monitoring well
HSA	Hollow Stem Auger
A/G	Above Ground
NA	Not Applicable
FBTOC	Feet Below Top of Casing

TABLE 3-1
GROUNDWATER ELEVATION SUMMARY
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

November 8, 2000

Well ID	TOC Elevation (ft)	Depth of Well (ft)	Screened Interval (ft)	Depth to Water Level (ft)	Depth to Free Product (ft)	Free Product Thickness (ft)	Adj. Water Level Elevation (ft)
NASP-1932-MW-1	31.055	16.34	5.85 - 15.85*	11.71	Trace	<0.01	19.35
NASP-1932-MW-2	31.070	15.50	5.0 - 15.0	11.37			19.70
NASP-1932-MW-3	31.490	15.92	5.42 - 15.42	10.64			20.85
NASP-1932-MW-4	31.600	16.08	5.58 - 15.58	12.01			19.59
NASP-1932-MW-5	31.240	15.50	5.0 - 15.0	11.93			19.31
NASP-1932-MW-6	29.810	16.05	5.55 - 15.55	10.38			19.43
NASP-1932-MW-7	30.760	14.62	4.12 - 14.12	11.44			19.32
NASP-1932-MW-8	31.250	15.54	5.04 - 15.04	12.41	12.00	0.41	19.17
NASP-1932-MW-9	30.070	15.60	5.10 - 15.10	10.98	Sheen		19.09
NASP-1932-MW-10	31.090	15.95	5.45 - 15.45	12.09			19.00
NASP-1932-MW-11	30.640	16.50	6.0 - 16.0	11.75			18.89
NASP-1932-MW-12	29.210	15.85	5.35 - 15.35	10.23			18.98
NASP-1932-MW-13	28.830	16.10	5.6 - 15.6	10.18			18.65
NASP-1932-MW-14	31.400	15.85	5.35 - 15.35	11.82			19.58
NASP-1932-MW-15	31.195	15.85	5.35 - 15.35	12.81	11.67	1.14	19.30
NASP-1932-MW-16	31.250	15.81	5.31 - 15.31	11.71	Trace	<0.01	19.54
NASP-1932-MW-17	30.150	15.78	5.28 - 15.28	11.19			18.96
NASP-1932-MW-18	31.910	15.82	5.32 - 15.32	12.33	Sheen		19.58
NASP-1932-MW-19	31.480	16.00	5.50 - 15.50	12.06			19.42
NASP-1932-MW-20	31.280	16.14	5.64 - 15.64	11.98	Trace	<0.01	19.30
NASP-1932-MW-21	31.200	15.79	5.29 - 15.29	11.91	Trace	<0.01	19.29
NASP-1932-MW-22	31.840	15.80	5.30 - 15.30	12.22	Trace	<0.01	19.62
NASP-1932-MW-23	30.965	15.80	4.5 - 14.5	11.47			19.50
NASP-1932-MW-24D	29.900	39.60	34.10 - 39.10	12.23			17.67
NASP-1932-MW-25D	30.750	38.55	33.05 - 38.05	12.76			17.99

NOTES:
TOC (Top Of Casing) elevations surveyed 11/8/00
Assumed benchmark of 33 feet above sea level at the SE corner of the current AST containment area.
* = Existing well installed by another consultant
Bottom Point Cap Sump equals 0.5 foot
Assumes Specfic Gravity of 0.8 for free product.

May 1, 2001

Well ID	TOC Elevation (ft)	Depth of Well (ft)	Screened Interval (ft)	Depth to Water Level (ft)	Depth to Free Product (ft)	Free Product Thickness (ft)	Adj. Water Level Elevation (ft)
NASP-1932-MW-1	31.055	16.34	5.85 - 15.85*	11.69	Sheen		19.37
NASP-1932-MW-2	31.070	15.50	5.0 - 15.0	11.25			19.82
NASP-1932-MW-3	31.490	15.92	5.42 - 15.42	10.37			21.12
NASP-1932-MW-4	31.600	16.08	5.58 - 15.58	12.12			19.48
NASP-1932-MW-5	31.240	15.50	5.0 - 15.0	11.83			19.41
NASP-1932-MW-6	29.810	16.05	5.55 - 15.55	10.52			19.29
NASP-1932-MW-7	30.760	14.62	4.12 - 14.12	11.56			19.20
NASP-1932-MW-8	31.250	15.54	5.04 - 15.04	12.11	Sheen		19.14
NASP-1932-MW-9	30.070	15.60	5.10 - 15.10	11.03			19.04
NASP-1932-MW-10	31.090	15.95	5.45 - 15.45	12.13			18.96
NASP-1932-MW-11	30.640	16.50	6.0 - 16.0	11.91			18.73
NASP-1932-MW-12	29.210	15.85	5.35 - 15.35	10.47			18.74
NASP-1932-MW-13	28.830	16.10	5.6 - 15.6	10.44			18.39
NASP-1932-MW-14	31.400	15.85	5.35 - 15.35	11.78			19.62
NASP-1932-MW-15	31.195	15.85	5.35 - 15.35	12.01	11.75	0.26	19.39
NASP-1932-MW-16	31.250	15.81	5.31 - 15.31	11.69			19.56
NASP-1932-MW-17	30.150	15.78	5.28 - 15.28	11.22			18.93
NASP-1932-MW-18	31.910	15.82	5.32 - 15.32	12.37	Sheen		19.54
NASP-1932-MW-19	31.480	16.00	5.50 - 15.50	12.14	12.13	0.01	19.35
NASP-1932-MW-20	31.280	16.14	5.64 - 15.64	11.99			19.29
NASP-1932-MW-21	31.200	15.79	5.29 - 15.29	11.96			19.24
NASP-1932-MW-22	31.840	15.80	5.30 - 15.30	12.32			19.52
NASP-1932-MW-23	30.965	15.80	4.5 - 14.5	11.57			19.40
NASP-1932-MW-24D	29.900	39.60	34.10 - 39.10	12.08			17.82
NASP-1932-MW-25D	30.750	38.55	33.05 - 38.05	12.58			18.17

NOTES:
TOC (Top Of Casing) elevations surveyed 11/8/00
Assumed benchmark of 33 feet above sea level at the SE corner of the current AST containment area.
* = Existing well installed by another consultant
Bottom Point Cap Sump equals 0.5 foot
Assumes Specfic Gravity of 0.8 for free product.

TABLE 3-2
POTABLE WATER SUPPLY WELL DATA
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

WELL ID/LOCAL NAME	LOCATION	TOTAL DEPTH (ft) bls	SCREENED INTERVAL (ft) bls	DIAMETER CASING/SCREEN (inches)
302116087170201/No. 1	Sec. 1, T3S, R30W Duncan and Taylor Roads	174	105-160	24/12
302124087163601/No. 2	Sec. 1, T3S, R30W Murray and Farrar Roads	178	110-160	24/12
NOTE: bls = below land surface				

TABLE 4-1
SOIL OVA SCREENING RESULTS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

SAMPLE				OVA SCREENING RESULTS			
LOCATION NO.	DATE COLLECTED	DEPTH TO WATER (ft)	SAMPLE INTERVAL (ft BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
SB-1	8/5/2000		4-8	350	5	345	Adjacent to MW-1
	8/5/2000	14.0	10-14	480	35	445	Free product at 13 feet BGS Analytical Sample
SB-2	8/5/2000		4-8	4	0	4	Adjacent to MW-18
	8/5/2000		8-12	330	0	330	
	8/5/2000	14.0	12-14	255	2	253	Free product at 13-14 feet BGS
SB-3	8/5/2000		2-4	900	340	560	Adjacent to MW-14
	8/5/2000		4-8	600	15	585	
	8/5/2000		8-12	900	130	770	
	8/5/2000	14.0	12-14	900	43	857	Analytical Sample
SB-4	8/5/2000		0-4	0	0	0	Adjacent to MW-2
	8/5/2000		4-8	0	0	0	
	8/5/2000	11.5	8-12	3	3	0	Analytical Sample 8-12, TOC sample 12 -16 (peat at bottom)
SB-5	8/5/2000		0-4	0	0	0	
	8/5/2000		4-8	60	0	60	
	8/5/2000		8-12	270	5	265	Analytical Sample 8-12
	8/5/2000	14.0	12-14	360	19	341	
SB-6	8/5/2000		0-4	0	0	0	
	8/5/2000		4-8	0	0	0	
	8/5/2000		8-12	1	0	1	Analytical Sample 10-12
	8/5/2000	12.0	12-16	3	0	3	TOC sample 15 -16 (peat)
SB-7	8/5/2000		0-4	1550	1100	450	Adjacent to former dispenser island
	8/5/2000		4-8	1050	0	1050	
	8/5/2000		8-12	1350	320	1030	
	8/5/2000	14.0	12-14	1200	280	720	
SB-8	8/6/2000		0-4	*	*	*	Adjacent to south of MW-18
	8/6/2000		4-8	*	*	*	Strong Petroleum Odor
	8/6/2000		8-12	*	*	*	
	8/6/2000	15.0	12-16	*	*	*	Free product at 14-15 feet BGS
SB-9	8/6/2000		0-4	*	*	*	Strong Petroleum Odor
	8/6/2000		4-8	*	*	*	
	8/6/2000		8-12	*	*	*	
	8/6/2000	15.0	12-16	*	*	*	Free product at 14-15 feet BGS
SB-10	8/6/2000		0-4	*	*	*	Adjacent to MW-23 Screened 10/10/00
	8/6/2000		4-8	*	*	*	
	8/6/2000		8-12	*	*	*	
	8/6/2000	14.0	12-16	*	*	*	Strong Petroleum Odor to Water
SB-11	8/6/2000		0-4	*	*	*	Adjacent to MW-15 installed 10/8/00
	8/6/2000		4-8	*	*	*	
	8/6/2000		8-12	*	*	*	
	8/6/2000	15.0	12-16	*	*	*	Analytical Sample 12-15, Free product at 14-15 feet BGS
MW-1	3/13/1995	9.5	0-17	NA	NA	NA	Installed by FGS, Inc. See adjacent SB-1
MW-2	10/4/2000	11.5	NA	NA	NA	NA	See adjacent SB-4
MW-3	10/4/2000		0-4	0	0	0	
	10/4/2000		4-8	0	0	0	
	10/4/2000	11.5	8-12	0	0	0	
MW-4	10/5/2000		0-4	0	0	0	
	10/5/2000		4-8	0	0	0	
	10/5/2000		8-12	0	0	0	
	10/5/2000	12.0	12-16	0	0	0	
MW-5	10/5/2000		0-4	0	0	0	
	10/5/2000		4-8	0	0	0	
	10/5/2000	12.0	8-12	0	0	0	
MW-6	10/5/2000		0-4	0	0	0	
	10/5/2000		4-8	0	0	0	
	10/5/2000	11.0	8-12	0	0	0	
MW-7	10/5/2000		0-4	0	0	0	
	10/5/2000		4-8	70	0	70	
	10/5/2000	11.0	8-12	170	0	170	
MW-8	10/5/2000		0-4	0	0	0	
	10/5/2000		4-8	16	0	16	
	10/5/2000	11.0	8-12	150	0	150	Free Product
MW-9	10/6/2000		0-4	0	0	0	
	10/6/2000		4-8	3	0	3	
	10/6/2000	10.5	8-12	100	0	100	
MW-10	10/7/2000		0-4	0	0	0	
	10/7/2000		4-8	0	0	0	
	10/7/2000	11.5	8-12	0	0	0	
MW-11	10/7/2000		0-4	0	0	0	
	10/7/2000		4-8	0	0	0	
	10/7/2000	11.0	8-11	0	0	0	

TABLE 4-1
SOIL OVA SCREENING RESULTS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

SAMPLE				OVA SCREENING RESULTS			
LOCATION NO.	DATE COLLECTED	DEPTH TO WATER (ft)	SAMPLE INTERVAL (ft BGS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	COMMENTS
	10/7/2000		12-16	165	0	165	Groundwater has strong diesel odor.
MW-12	10/7/2000		0-4	0	0	0	
	10/7/2000		4-8	0	0	0	
	10/7/2000	10.5	8-12	0	0	0	
	10/7/2000		12-16	0	0	0	
MW-13	10/8/2000		0-4	0	0	0	
	10/8/2000		4-8	0	0	0	
	10/8/2000	10.0	8-12	0	0	0	
	10/8/2000		12-16	0	0	0	
MW-14	10/8/2000	12.0	NA	NA	NA	NA	See adjacent SB-3
MW-15	10/8/2000		0-4	1400	800	600	Adjacent to SB-11
	10/8/2000		4-8	1000	100	900	
	10/8/2000	12.5	8-12	1200	150	1050	Free Product
	10/8/2000		12-16	1600	1100	500	
MW-16	10/8/2000		0-4	95	0	95	
	10/8/2000		4-8	280	10	270	
	10/8/2000	11.0	8-12	800	150	650	
MW-17	10/9/2000		0-4	0	0	0	
	10/9/2000		4-8	0	0	0	
	10/9/2000	10.5	8-12	0	0	0	
	10/9/2000		12-16	0	0	0	
MW-18	10/9/2000	12.0	NA	NA	NA	NA	See adjacent SB-2 to the north
MW-19	10/9/2000		0-4	20	5	15	
	10/9/2000		4-8	240	15	225	
	10/9/2000	11.0	8-12	410	170	240	
MW-20	10/9/2000		0-4	0	0	0	
	10/9/2000		4-8	60	0	60	
	10/9/2000	12.0	8-12	170	0	170	
MW-21	10/10/2000		0-4	0	0	0	
	10/10/2000		4-8	95	0	95	
	10/10/2000		8-10	160	0	160	
	10/10/2000	11.0	10-12	145	0	145	
MW-22	10/10/2000		0-4	0	0	0	
	10/10/2000		4-8	0	0	0	
	10/10/2000	11.0	8-12	60	0	60	
MW-23	10/10/2000	11.0	NA	NA	NA	NA	See adjacent SB-10
MW-24D	10/11/2000	10.5	NA	NA	NA	NA	See adjacent MW-9
MW-25D	10/18/2000	11.0	NA	NA	NA	NA	See adjacent SB-10

Notes:
ft BGS = feet below ground surface
all borings hand augered to 4 fBGS for utilities
* = PortaFID gas out and no readings available
ppm = parts per million
NA = not available/applicable
NS = not sampled
Shade = headspace sample collected at water tabl

TABLE 4-2
SUMMARY OF ANALYTICAL COMPOUNDS DETECTED IN SOIL
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		NASP1932 SB-1	NASP1932 DUP-1	NASP1932 SB-3	NASP1932 SB-4	NASP1932 SB-5
Sample Location		SB-1	SB-1 Duplicate	SB-3	SB-4	SB-5
Collect Date		8/8/2000	8/8/2000	8/8/2000	8/8/2000	8/8/2000
Sample Depth (bls)		10 - 14'	10 - 14'	12 - 14'	10 - 11.5'	8 - 12'
	DE1[1]/DE2[2]/LE[3] (mg/kg)					
Volatile[4] (mg/kg)						
Ethylbenzene	1,100/8,400/0.6	**0.81**	--	**0.97**	--	--
Xylenes (total)	5,900/40,000/0.2	**1.1**	--	--	--	--
Methylene Chloride	16/23/0.02	--	--	--	--	--
Semi-Volatile [5](mg/kg)						
Phenol	900**/390,000/0.5	**0.82[J]**	--	--	--	--
1-Methylnaphthalene	68/470/2.2	**12**	0.24	**4.4**	--	**3**
2-Methylnaphthalene	80/560/6.1	**17**	0.34	**6.3**	--	4.2
Acenaphthene	1,900/18,000/2.1	1.8	0.045[J]	0.59	--	0.46
Anthracene	18,000/260,000/2,500	1	--	0.38[J]	--	0.45
Benzo(a)anthracene	1.4/5/3.2	--	--	--	--	--
Benzo(a)pyrene	0.1/0.5/8	--	--	--	--	--
Benzo(b)fluoranthene	1.4/4.8/10	--	--	--	--	--
Benzo(g,h,i)perylene	2,300/41,000/32,000	--	--	--	--	--
Benzo(k)fluoranthene	15/52/25	--	--	--	--	--
Chrysene	140/450/77	0.22[J]	0.013[J]	--	--	0.036[J]
Fluoranthene	2,900/48,000/1,200	0.28[J]	--	--	--	0.045[J]
Fluorene	2,200/28,000/160	2.9	0.059[J]	1.1	--	1.1
Indeno(1,2,3-cd)pyrene	1.5/5.3/28	--	--	--	--	--
Naphthalene	40/270/1.7	**4.7**	0.051[J]	1.4	--	0.43
Phenanthrene	2,000/30,000/250	4.2	0.055[J]	1.4	--	1.3
Pyrene	2,200/37,000/880	0.86	0.035[J]	0.21[J]	--	0.23
Total Petroleum Hydrocarbons [6](mg/kg)	340/2,500/340	**6,500**	**690**	**2,700**	--	**3,100**
Metals [7](mg/kg)						
Barium	110**/87,000/1,600	--	--	--	--	--
Chromium	210/420/38	--	1.6[J]	--	0.81	1.5[J]
Total Organic Carbon[8] (mg/kg)	NA/NA/NA	NA	NA	NA	46,900	NA

[1] DE1= Direct Exposure limit for residential area from Chapter 62-777, F.A.C.
[2] DE2= Direct Exposure limit for industrial area from Chapter 62-777, F.A.C.
[3] LE= Leachability for groundwater limit from Chapter 62-777, F.A.C.
[4] SW-846 8260B, [5] SW-846 8270C, [6] FL-PRO, [7] SW-846 6010B and 7471A, [8] EPA 9060
[J] Indicates the presence of a chemical at an estimated concentration.
Bold indicates an exceedance of regulatory standards.
** Direct exposure value based on acute toxicity considerations.

TABLE 4-2
SUMMARY OF ANALYTICAL COMPOUNDS DETECTED IN SOIL
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		NASP1932 SB-6	NASP1932 SB-7	NASP1932 SB-11	TB-080800
Sample Location		SB-6	SB-7	SB-11	Aqueous Trip Blank
Collect Date		8/8/2000	8/8/2000	8/8/2000	8/8/2000
Sample Depth (bls)		10 - 12'	10 - 14'	12 - 15'	
	DE1[1]/DE2[2]/LE[3] (mg/kg)				
Volatile[4] (mg/kg)					
Ethylbenzene	1,100/8,400/0.6	--	**1.2**	0.22	--
Xylenes (total)	5,900/40,000/0.2	--	**0.32[J]**	--	--
Methylene Chloride	16/23/0.02	--	--	--	**0.9[J] ug/l (900ppm)**
Semivolatile [5](mg/kg)					
Phenol	900**/390,000/0.5	--	--	--	NA
1-Methylnaphthalene	68/470/2.2	**--**	**14**	**54**	NA
2-Methylnaphthalene	80/560/6.1	**--**	**19**	**78**	NA
Acenaphthene	1,900/18,000/2.1	**--**	1.5	**4.9**	NA
Anthracene	18,000/260,000/2,500	**--**	0.9	3	NA
Benzo(a)anthracene	1.4/5/3.2	**--**	--	0.28[J]	NA
Benzo(a)pyrene	0.1/0.5/8	--	--	**0.17[J]**	NA
Benzo(b)fluoranthene	1.4/4.8/10	--	--	0.18[J]	NA
Benzo(g,h,I)perylene	2,300/41,000/32,000	--	--	0.047[J]	NA
Benzo(k)fluoranthene	15/52/25	--	--	0.13[J]	NA
Chrysene	140/450/77	--	0.15[J]	0.37[J]	NA
Fluoranthene	2,900/48,000/1,200	--	0.21[J]	1.1	NA
Fluorene	2,200/28,000/160	--	2.8	10	NA
Indeno(1,2,3-cd)pyrene	1.5/5.3/28	--	--	0.051[J]	NA
Naphthalene	40/270/1.7	--	**4.7**	2.1	NA
Phenanthrene	2,000/30,000/250	--	4.2	17	NA
Pyrene	2,200/37,000/880	--	0.54[J]	2	NA
Total Petroleum Hydrocarbons [6](mg/kg)	340/2,500/340	--	**4700**	**14000**	NA
Metals [7](mg/kg)					
Barium	110**/87,000/1,600	NA	--	0.74[J]	NA
Chromium	210/420/38	0.93[J]	--	0.82[J]	NA
Total Organic Carbon[8] (mg/kg)	NA/NA/NA	244,000	NA	NA	NA

[1] DE1= Direct Exposure limit for residential area from Chapter 62-777, F.A.C.
[2] DE2= Direct Exposure limit for industrial area from Chapter 62-777, F.A.C.
[3] LE= Leachability for groundwater limit from Chapter 62-777, F.A.C.
[4] SW-846 8260B, [5] SW-846 8270C, [6] FL-PRO, [7] SW-846 6010B and 7471A, [8] EPA 9060
[J] Indicates the presence of a chemical at an estimated concentration.
Bold indicates an exceedance of regulatory standards.
** Direct exposure value based on acute toxicity considerations.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-1	MW-2	MW-3	MW-4	MW-5
Sample Location		MW-1	MW-2	MW-3	MW-4	MW-5
Collect Date		5/4/2001	5/6/2001	5/2/2001	5/4/2001	5/5/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Volatile[2] (mg/L)						
n-Butylbenzene	NA	--	--	--	--	--
Chloroform	5.7	--	--	--	--	--
Chloromethane	2.7	--	--	--	--	--
n-Propylbenzene	NA	4.6	--	--	--	--
1,3,5-Trimethylbenzene	10	2.5	--	--	--	--
trans-1,2-Dichloroethene	100	--	--	--	--	--
Trichloroethene	3.0	--	--	--	--	--
Vinyl Chloride	1.0	--	--	--	--	--
cis-1,2-Dichloroethene	70	--	--	--	--	--
Isopropylbenzene	NA	2.8	--	--	--	0.87[J]
tert-Butylbenzene	NA	--	--	--	--	0.57[J]
sec-Butylbenzene	NA	1.9[J]	--	--	--	1.2[J]
Naphthalene	20	**34**	--	--	2.2	12
4-Isopropyltoluene	NA	1.6[J]	--	--	--	--
1,2,4-Trimethylbenzene	10	**18**	--	--	2.1[J]	--
Benzene	1.0	--	--	--	--	--
Ethylbenzene	30	8.7	--	--	--	2.0
Toluene	40	--	--	--	--	--
Xylenes	20	1.6[J]	--	--	--	--
Methyl tert-butyl ether	50	--	--	--	--	--
Methylene Chloride	5.0	--	--	--	--	--
Semivolatile[3] (mg/L)						
3,4-Methylphenol	4.0	--	**39[J]**	--	--	--
2-Methylphenol	35	--	--	--	--	--
2-Methylnaphthalene	20	**29**	**39[J]**	--	--	--
4-Nitrophenol	56	--	16[J]	--	--	--
Benzo(k)fluoranthene	0.50	--	--	--	--	--
Dibenzofuran	28	--	--	--	--	--
Fluorene	280	--	--	--	--	--
Naphthalene	20	--	**62**	--	--	--
Phenol	10	--	7.1[J]	--	--	--
Acenaphthene	20	3.6[J]	--	--	--	--
Phenanthrene	210	4.8[J]	--	--	--	--
2,4-Dimethylphenol	140	--	--	--	--	--
Benzo(a)anthracene	0.20	--	--	--	--	--
Butyl benzyl phthalate	140	--	--	--	--	--
Chrysene	4.8	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-1	MW-2	MW-3	MW-4	MW-5
Sample Location		MW-1	MW-2	MW-3	MW-4	MW-5
Collect Date		5/4/2001	5/6/2001	5/2/2001	5/4/2001	5/5/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Polycyclic Aromatic Hydrocarbons[4] (mg/L)						
1-Methylnaphthalene	20	**25**	**35**	--	--	11
2-Methylnaphthalene	20	**27**	**40**	--	--	3.1[J]
Acenaphthene	20	4.3	6.6	--	--	3.9[J]
Fluoranthene	280	--	--	--	--	--
Fluorene	280	5.0	6.7	--	--	5.6[J]
Naphthalene	20	17	**64**	--	--	--
Phenanthrene	210	4.6	2.9[J]	--	--	--
Pyrene	210	--	--	--	--	--
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	**6,600**	--	--	**10,000**	**6,100**
Metals[6] (mg/L)						
Arsenic	50	--	--	--	--	--
Cadmium	5.0	--	--	--	1.4[J]	--
Chromium	100	--	1.6[J]	--	--	1.6[J]
Lead	15	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-6	MW-7	MW-8	MW-9	DUP-2
Sample Location		MW-6	MW-7	MW-8	MW-9	MW-9
Collect Date		5/5/2001	5/3/2001	5/5/2001	5/4/2001	5/4/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Volatile[2] (mg/L)						
n-Butylbenzene	NA	--	--	--	--	--
Chloroform	5.7	--	--	--	--	--
Chloromethane	2.7	--	--	--	--	--
n-Propylbenzene	NA	--	--	5.9	6.2[J]	6.1[J]
1,3,5-Trimethylbenzene	10	--	**28**	**19**	**36**	**38**
trans-1,2-Dichloroethene	100	--	--	--	--	--
Trichloroethene	3.0	--	--	--	--	--
Vinyl Chloride	1.0	--	--	--	--	--
cis-1,2-Dichloroethene	70	--	--	--	--	--
Isopropylbenzene	NA	--	--	4.5	4.2[J]	4.2[J]
tert-Butylbenzene	NA	--	--	--	--	--
sec-Butylbenzene	NA	--	--	--	--	--
Naphthalene	20	--	12	**150**	**120**	**120**
4-Isopropyltoluene	NA	--	1.3[J]	2.3[J]	2.8[J]	3.0[J]
1,2,4-Trimethylbenzene	10	--	**17**	**14**	**80**	**82**
Benzene	1.0	--	--	**8.4**	**4.1[J]**	**3.9[J]**
Ethylbenzene	30	--	1.1	**56**	**32**	**32**
Toluene	40	--	0.55[J]	--	5.0	5.3
Xylenes	20	--	**25**	**26**	**120**	**120**
Methyl tert-butyl ether	50	--	--	11	--	--
Methylene Chloride	5.0	--	--	--	--	--
Semivolatile[3] (mg/L)						
3,4-Methylphenol	4.0	--	**6.9[J]**	--	**83[J]**	**87[J]**
2-Methylphenol	35	--	--	--	12[J]	12[J]
2-Methylnaphthalene	20	--	13	--	**46[J]**	**45[J]**
4-Nitrophenol	56	--	--	--	--	--
Benzo(k)fluoranthene	0.50	--	--	--	--	--
Dibenzofuran	28	--	--	--	--	--
Fluorene	280	--	4.8[J]	--	--	--
Naphthalene	20	--	--	--	**44[J]**	**48[J]**
Phenol	10	--	--	--	--	--
Acenaphthene	20	--	--	--	--	--
Phenanthrene	210	--	--	--	--	--
2,4-Dimethylphenol	140	--	3.6[J]	--	--	--
Benzo(a)anthracene	0.20	--	**2.4[J]**	--	--	--
Butyl benzyl phthalate	140	--	3.1[J]	--	--	--
Chrysene	4.8	--	2.6[J]	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-6	MW-7	MW-8	MW-9	DUP-2
Sample Location		MW-6	MW-7	MW-8	MW-9	MW-9
Collect Date		5/5/2001	5/3/2001	5/5/2001	5/4/2001	5/4/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Polycyclic Aromatic Hydrocarbons[4] (mg/L)						
1-Methylnaphthalene	20	--	10	--	**37**	**38**
2-Methylnaphthalene	20	--	11	--	**49**	**49**
Acenaphthene	20	--	4.4	--	6.6[J]	6.6[J]
Fluoranthene	280	--	--	--	--	--
Fluorene	280	--	4.0	--	7.6[J]	7.2[J]
Naphthalene	20	--	3.8	--	**44**	**46**
Phenanthrene	210	--	2.5	--	5.6[J]	5.2[J]
Pyrene	210	--	0.76[J]	--	--	--
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	**10,000**	**8,500**	**16,000**	**30,000**	**33,000**
Metals[6] (mg/L)						
Arsenic	50	--	--	--	--	--
Cadmium	5.0	--	--	--	--	--
Chromium	100	1.5[J]	1.2[J]	2.8[J]	2.9[J]	2.8[J]
Lead	15	--	--	7.1[J]	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-10	MW-11	MW-12	MW-13	MW-14
Sample Location		MW-10	MW-11	MW-12	MW-13	MW-14
Collect Date		5/1/2001	5/4/2001	5/2/2001	5/2/2001	5/3/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Volatile[2] (mg/L)						
n-Butylbenzene	NA	--	--	--	--	--
Chloroform	5.7	--	--	4.6	1.9	--
Chloromethane	2.7	--	--	0.71[J]	--	--
n-Propylbenzene	NA	--	--	--	--	8.2
1,3,5-Trimethylbenzene	10	--	**17**	--	--	0.65[J]
trans-1,2-Dichloroethene	100	--	--	--	--	--
Trichloroethene	3.0	--	--	--	--	--
Vinyl Chloride	1.0	--	--	--	--	--
cis-1,2-Dichloroethene	70	--	--	--	--	--
Isopropylbenzene	NA	--	0.64[J]	--	--	4.9
tert-Butylbenzene	NA	--	--	--	--	0.70[J]
sec-Butylbenzene	NA	--	--	--	--	3.3[J]
Naphthalene	20	3.0	**25**	--	--	**99**
4-Isopropyltoluene	NA	--	1.1[J]	--	--	2.6[J]
1,2,4-Trimethylbenzene	10	--	**13**	--	--	**18**
Benzene	1.0	--	--	--	--	--
Ethylbenzene	30	1.2	6.8	--	--	14
Toluene	40	--	1.9	--	--	--
Xylenes	20	--	**52**	--	--	0.73[J]
Methyl tert-butyl ether	50	--	--	--	--	--
Methylene Chloride	5.0	--	--	--	--	--
Semivolatile[3] (mg/L)						
3,4-Methylphenol	4.0	--	--	--	--	--
2-Methylphenol	35	--	--	--	--	--
2-Methylnaphthalene	20	--	--	--	--	**71**
4-Nitrophenol	56	--	--	--	--	--
Benzo(k)fluoranthene	0.50	--	--	--	--	--
Dibenzofuran	28	--	--	--	--	--
Fluorene	280	--	--	--	--	--
Naphthalene	20	--	--	--	--	**47**
Phenol	10	--	--	--	--	--
Acenaphthene	20	--	--	--	--	5.7[J]
Phenanthrene	210	--	--	--	--	--
2,4-Dimethylphenol	140	--	--	--	--	--
Benzo(a)anthracene	0.20	--	--	--	--	--
Butyl benzyl phthalate	140	--	--	--	--	--
Chrysene	4.8	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-10	MW-11	MW-12	MW-13	MW-14
Sample Location		MW-10	MW-11	MW-12	MW-13	MW-14
Collect Date		5/1/2001	5/4/2001	5/2/2001	5/2/2001	5/3/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Polycyclic Aromatic Hydrocarbons[4] (mg/L)						
1-Methylnaphthalene	20	1.0	6.7[J]	--	--	**50**
2-Methylnaphthalene	20	--	--	--	--	**69**
Acenaphthene	20	0.59[J]	4.7[J]	--	--	6.5
Fluoranthene	280	--	--	--	--	--
Fluorene	280	0.48[J]	3.1[J]	--	--	8.0
Naphthalene	20	--	7.7[J]	--	--	**49**
Phenanthrene	210	--	--	--	--	6.2
Pyrene	210	--	--	--	--	0.30[J]
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	--	**8,200**	--	--	**17,000**
Metals[6] (mg/L)						
Arsenic	50	--	--	--	--	--
Cadmium	5.0	--	--	--	--	--
Chromium	100	--	1.7[J]	--	--	1.3[J]
Lead	15	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-16	MW-17	MW-18	MW-20	DUP-3
Sample Location		MW-16	MW-17	MW-18	MW-20	MW-20
Collect Date		5/5/2001	5/1/2001	5/3/2001	5/6/2001	5/6/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Volatile[2] (mg/L)						
n-Butylbenzene	NA	--	--	--	--	--
Chloroform	5.7	--	--	--	--	--
Chloromethane	2.7	--	--	--	--	--
n-Propylbenzene	NA	9.5	--	7.2	13	12
1,3,5-Trimethylbenzene	10	--	--	**22**	3.7	4.1
trans-1,2-Dichloroethene	100	--	--	--	--	--
Trichloroethene	3.0	--	--	--	--	--
Vinyl Chloride	1.0	--	--	--	--	--
cis-1,2-Dichloroethene	70	--	--	--	--	--
Isopropylbenzene	NA	5.7	--	--	8.4	7.6
tert-Butylbenzene	NA	0.64[J]	--	--	0.8[J]	0.69[J]
sec-Butylbenzene	NA	3.4[J]	--	1.4[J]	3.7[J]	3.4[J]
Naphthalene	20	**110**	--	**110**	**190**	**210[J]**
4-Isopropyltoluene	NA	6.8	--	2.2[J]	2.2[J]	2.0[J]
1,2,4-Trimethylbenzene	10	**15**	--	**48**	2.9[J]	3.9[J]
Benzene	1.0	**1.0**	--	0.68[J]	**19**	**17**
Ethylbenzene	30	**30**	--	27	**55**	**51**
Toluene	40	--	--	2.2	--	--
Xylenes	20	--	--	**49**	--	--
Methyl tert-butyl ether	50	--	--	--	13	12
Methylene Chloride	5.0	--	--	--	--	--
Semivolatile[3] (mg/L)						
3,4-Methylphenol	4.0	--	--	**7.8[J]**	--	--
2-Methylphenol	35	--	--	3.6[J]	--	--
2-Methylnaphthalene	20	**87**	--	**66**	**160**	**160**
4-Nitrophenol	56	3.3[J]	--	--	--	--
Benzo(k)fluoranthene	0.50	**1.1[J]**	--	--	--	--
Dibenzofuran	28	5.7[J]	--	--	--	--
Fluorene	280	9.0[J]	--	--	--	--
Naphthalene	20	**52**	--	**64**	**130**	**120**
Phenol	10	--	--	--	--	--
Acenaphthene	20	6.0[J]	--	--	--	--
Phenanthrene	210	--	--	--	--	--
2,4-Dimethylphenol	140	--	--	2.3[J]	--	--
Benzo(a)anthracene	0.20	--	--	--	--	--
Butyl benzyl phthalate	140	--	--	--	--	--
Chrysene	4.8	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-16	MW-17	MW-18	MW-20	DUP-3
Sample Location		MW-16	MW-17	MW-18	MW-20	MW-20
Collect Date		5/5/2001	5/1/2001	5/3/2001	5/6/2001	5/6/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Polycyclic Aromatic Hydrocarbons[4] (mg/L)						
1-Methylnaphthalene	20	**55**	--	**36**	**110**	**110**
2-Methylnaphthalene	20	**82**	--	**62**	**160**	**170**
Acenaphthene	20	6.4	--	3.6	9.8[J]	9.6[J]
Fluoranthene	280	--	--	--	--	--
Fluorene	280	8.6	--	3.6	13	14
Naphthalene	20	**53**	--	**61**	**130**	**130**
Phenanthrene	210	7.2	--	4.0	8.9[J]	9.0[J]
Pyrene	210	--	--	--	--	--
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	**5,400**	--	**36,000**	**26,000**	**29,000**
Metals[6] (mg/L)						
Arsenic	50	--	--	--	--	--
Cadmium	5.0	--	--	--	--	--
Chromium	100	--	--	2.7[J]	2.5[J]	2.3[J]
Lead	15	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-21	MW-22	DUP-1	MW-23	MW-24D
Sample Location		MW-21	MW-22	MW-22	MW-23	MW-24D
Collect Date		5/3/2001	5/2/2001	5/2/2001	5/2/2001	5/5/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Volatile[2] (mg/L)						
n-Butylbenzene	NA	--	--	--	0.61[J]	--
Chloroform	5.7	--	--	--	--	--
Chloromethane	2.7	--	--	--	--	--
n-Propylbenzene	NA	15	--	--	--	--
1,3,5-Trimethylbenzene	10	**70**	--	--	**15**	--
trans-1,2-Dichloroethene	100	--	--	--	--	0.52[J]
Trichloroethene	3.0	--	--	--	--	2.3
Vinyl Chloride	1.0	--	--	--	--	**3.2**
cis-1,2-Dichloroethene	70	--	--	--	--	11
Isopropylbenzene	NA	9.5[J]	--	--	--	--
tert-Butylbenzene	NA	--	--	--	--	--
sec-Butylbenzene	NA	--	--	--	--	--
Naphthalene	20	**220**	--	--	5.4	--
4-Isopropyltoluene	NA	5.3[J]	--	--	0.62[J]	--
1,2,4-Trimethylbenzene	10	**230**	--	--	0.65[J]	--
Benzene	1.0	--	--	--	--	--
Ethylbenzene	30	**69**	--	--	--	--
Toluene	40	--	--	--	--	--
Xylenes	20	**320**	--	--	5.7	--
Methyl tert-butyl ether	50	--	--	--	--	--
Methylene Chloride	5.0	**9.8[J]**	--	--	--	--
Semivolatile[3] (mg/L)						
3,4-Methylphenol	4.0	**36[J]**	1.9[J]	--	--	--
2-Methylphenol	35	13[J]	--	--	--	--
2-Methylnaphthalene	20	**120**	--	--	2.2[J]	--
4-Nitrophenol	56	--	--	--	--	--
Benzo(k)fluoranthene	0.50	--	--	--	--	--
Dibenzofuran	28	--	--	--	--	--
Fluorene	280	--	--	--	--	--
Naphthalene	20	**100**	--	--	--	--
Phenol	10	**11[J]**	--	--	--	--
Acenaphthene	20	--	--	--	2.8[J]	--
Phenanthrene	210	--	--	--	--	--
2,4-Dimethylphenol	140	--	--	--	--	--
Benzo(a)anthracene	0.20	--	--	--	--	--
Butyl benzyl phthalate	140	--	--	--	--	--
Chrysene	4.8	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-21	MW-22	DUP-1	MW-23	MW-24D
Sample Location		MW-21	MW-22	MW-22	MW-23	MW-24D
Collect Date		5/3/2001	5/2/2001	5/2/2001	5/2/2001	5/5/2001
	Groundwater Clean-up Criteria[1] (µg/L)					
Polycyclic Aromatic Hydrocarbons[4] (mg/L)						
1-Methylnaphthalene	20	**73**	--	0.66[J]	6.5	--
2-Methylnaphthalene	20	**120**	--	0.72[J]	2.5	--
Acenaphthene	20	6.1[J]	--	0.50[J]	3.8	--
Fluoranthene	280	--	--	--	0.30[J]	--
Fluorene	280	8.3[J]	--	0.30[J]	3.1	--
Naphthalene	20	**110**	--	--	--	--
Phenanthrene	210	7.2[J]	--	--	2.7	--
Pyrene	210	--	--	--	0.49[J]	--
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	**39,000**	**18,000**	**20,000**	**39,000**	--
Metals[6] (mg/L)						
Arsenic	50	--	--	--	--	--
Cadmium	5.0	--	1.3[J]	--	--	--
Chromium	100	4.0[J]	--	--	--	1.3[J]
Lead	15	--	--	--	--	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

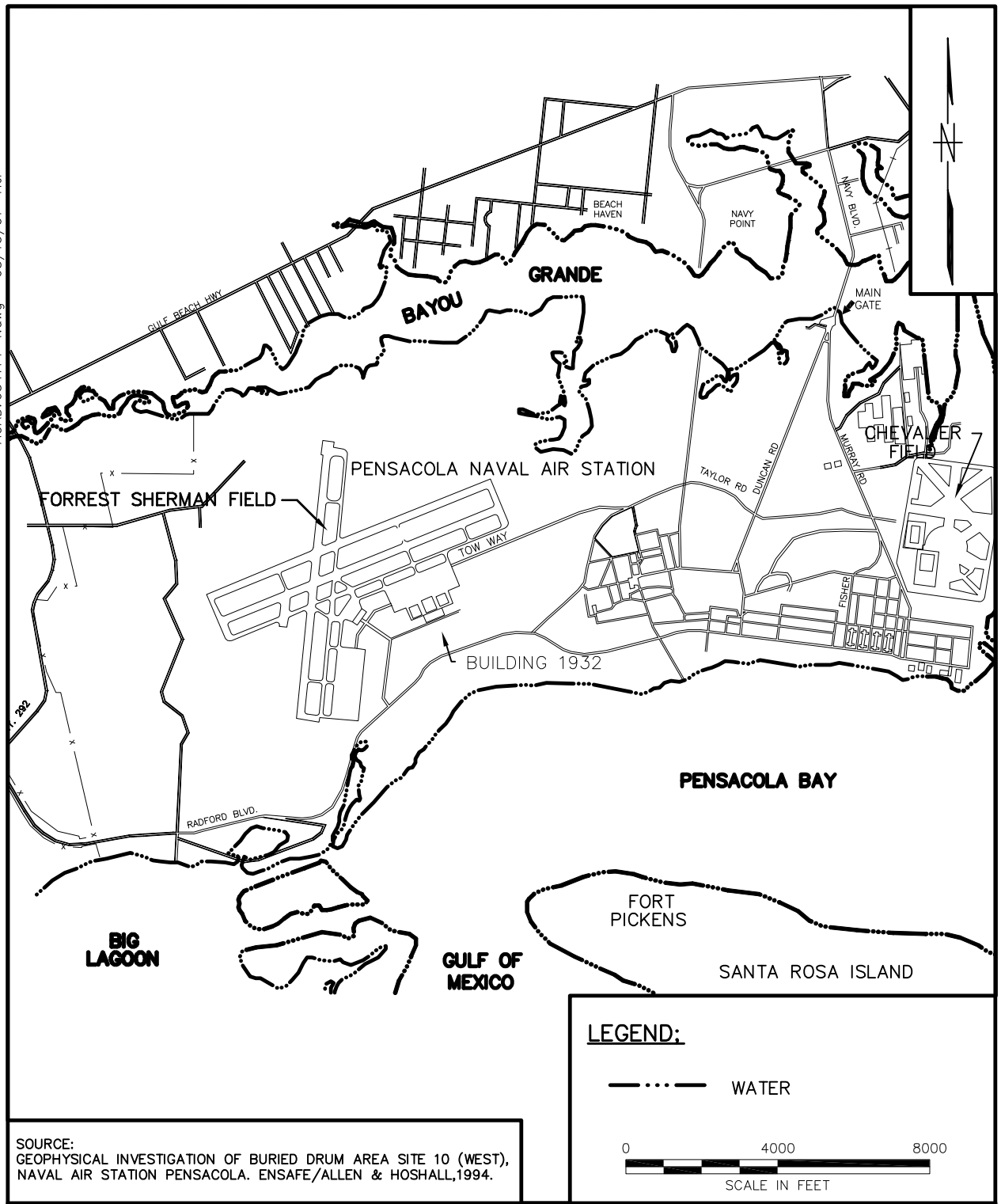
Sample No.		MW-25D
Sample Location		MW-25D
Collect Date		5/2/2001
	Groundwater Clean-up Criteria[1] (µg/L)	
Volatile[2] (mg/L)		
n-Butylbenzene	NA	--
Chloroform	5.7	--
Chloromethane	2.7	--
n-Propylbenzene	NA	--
1,3,5-Trimethylbenzene	10	--
trans-1,2-Dichloroethene	100	--
Trichloroethene	3.0	--
Vinyl Chloride	1.0	--
cis-1,2-Dichloroethene	70	--
Isopropylbenzene	NA	--
tert-Butylbenzene	NA	--
sec-Butylbenzene	NA	--
Naphthalene	20	--
4-Isopropyltoluene	NA	--
1,2,4-Trimethylbenzene	10	--
Benzene	1.0	--
Ethylbenzene	30	--
Toluene	40	--
Xylenes	20	--
Methyl tert-butyl ether	50	--
Methylene Chloride	5.0	--
Semivolatile[3] (mg/L)		
3,4-Methylphenol	4.0	--
2-Methylphenol	35	--
2-Methylnaphthalene	20	--
4-Nitrophenol	56	--
Benzo(k)fluoranthene	0.50	--
Dibenzofuran	28	--
Fluorene	280	--
Naphthalene	20	--
Phenol	10	--
Acenaphthene	20	--
Phenanthrene	210	--
2,4-Dimethylphenol	140	--
Benzo(a)anthracene	0.20	--
Butyl benzyl phthalate	140	--
Chrysene	4.8	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.

TABLE 4-3
SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Sample No.		MW-25D
Sample Location		MW-25D
Collect Date		5/2/2001
	Groundwater Clean-up Criteria[1] (µg/L)	
Polycyclic Aromatic Hydrocarbons[4] (mg/L)		
1-Methylnaphthalene	20	--
2-Methylnaphthalene	20	--
Acenaphthene	20	--
Fluoranthene	280	--
Fluorene	280	--
Naphthalene	20	--
Phenanthrene	210	--
Pyrene	210	--
Total Residual Petroleum Hydrocarbons[5] (mg/L)	5,000	--
Metals[6] (mg/L)		
Arsenic	50	14[J]
Cadmium	5.0	--
Chromium	100	--
Lead	15	--

[1] Groundwater Clean-up Criteria as provided in Chapter 62-777, F.A.C.
[2] SW-846 8260B, [3] SW-846 8270C, [4] SW-846 8310, [5] FDEP FL-PRO, [6] SW-846 6010B
-- indicates analyte not detected.
[J] indicates the presence of a chemical at an estimated concentration.
NA = not applicable.
Bold indicates an exceedance of regulatory limits.



ACAD: 0547F1-1.dwg 08/15/01 HJP

LEGEND;

WATER

0 4000 8000

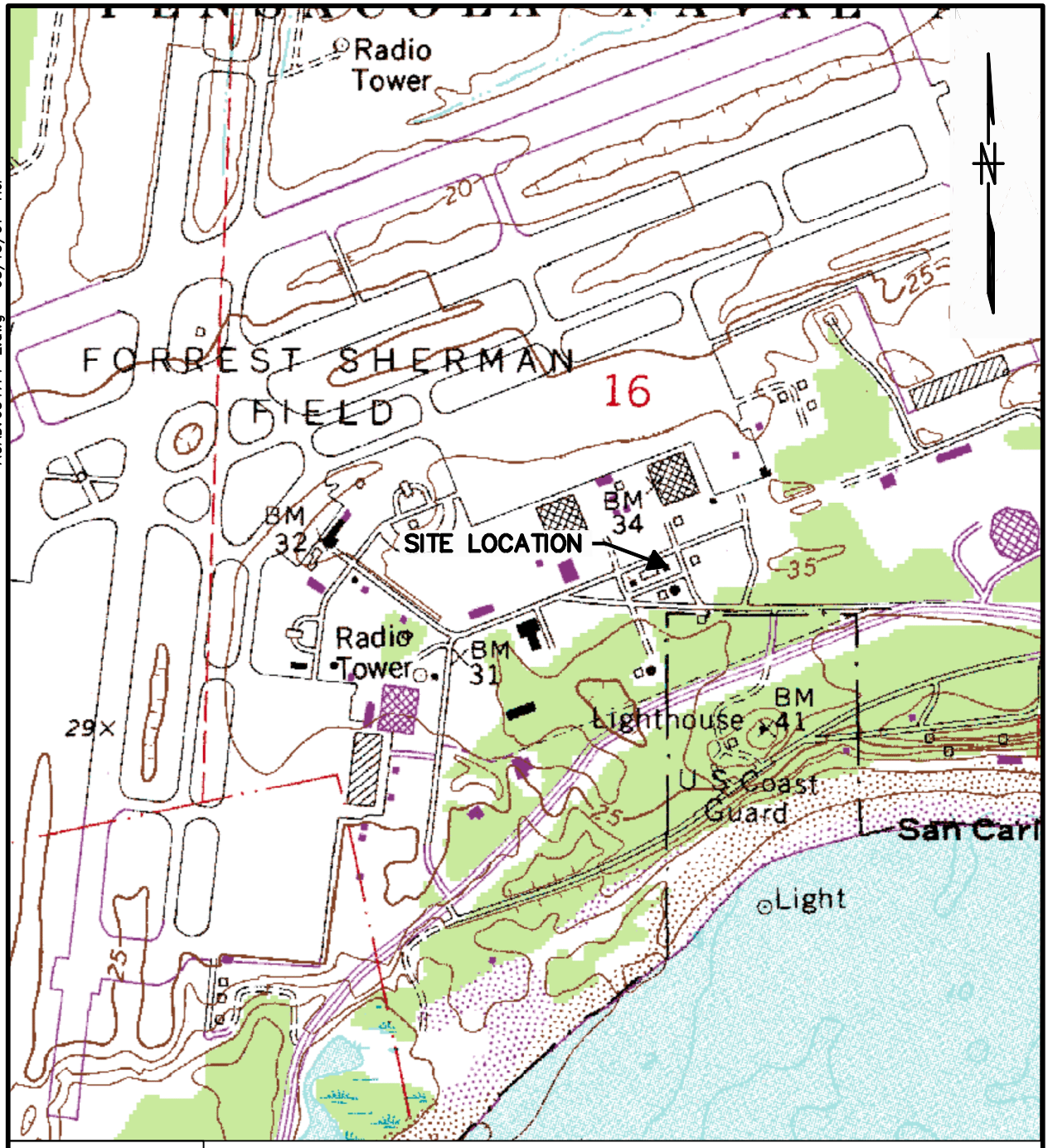
SCALE IN FEET

SOURCE:
GEOPHYSICAL INVESTIGATION OF BURIED DRUM AREA SITE 10 (WEST), NAVAL AIR STATION PENSACOLA. ENSAFE/ALLEN & HOSHALL,1994.

DRAWN BY DRA DATE 7/31/01		REGIONAL MAP SITE ASSESSMENT REPORT BUILDING 1932 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0547
CHECKED BY DATE			APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-1 / REV. 0

FORM CADD NO. SDIV_AV.DWG – REV 0 – 1/20/98

ACAD: 0547F1-2.dwg 08/15/01 HJP



SOURCE: USGS QUADRANGLE MAP, FORT BARRANCAS, FLA. 1970. PHOTOREVISED 1987. MINOR REVISION 1992.

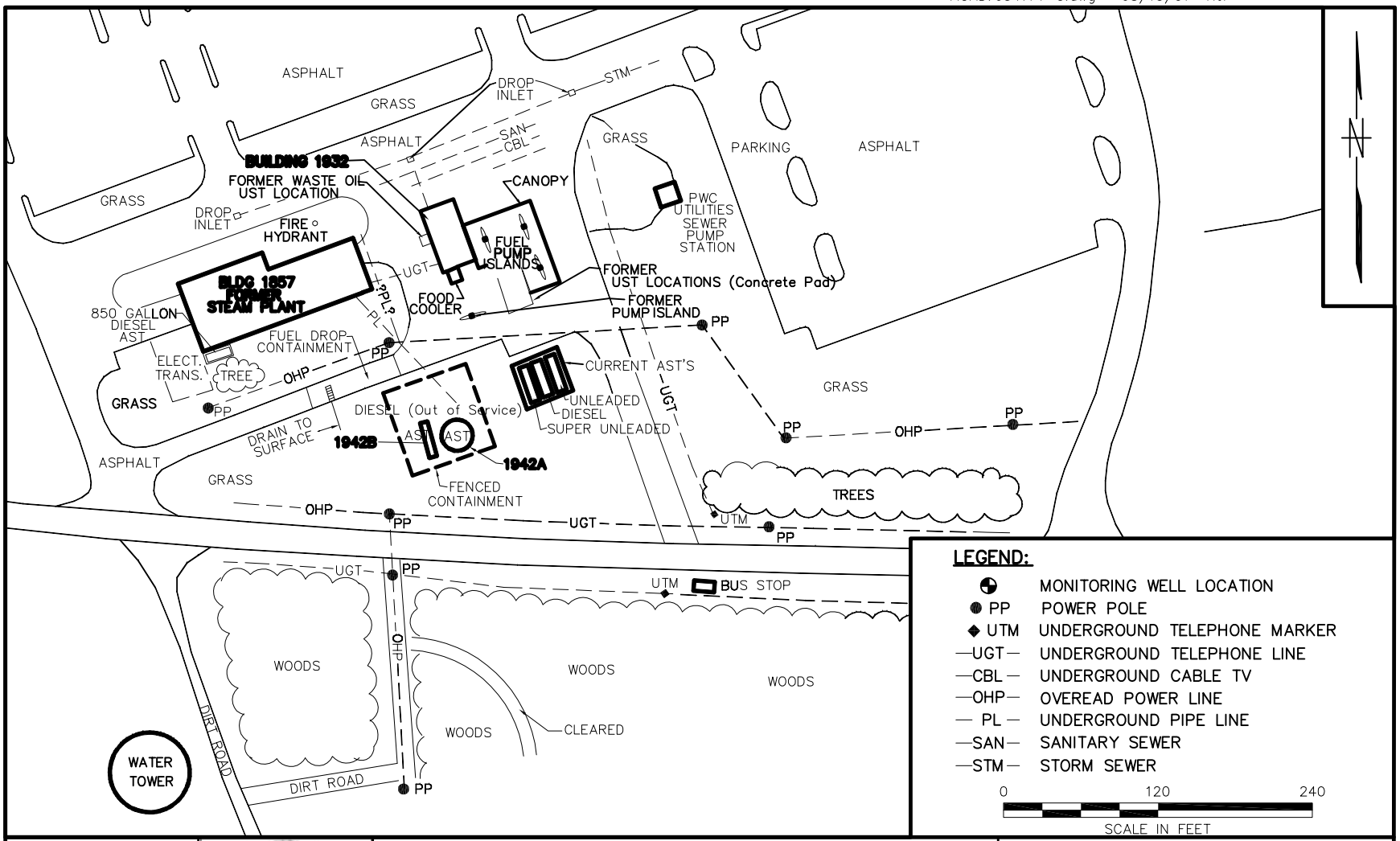
0 2000 4000
SCALE IN FEET

DRAWN BY DRA DATE 7/31/01			CONTRACT NO. 0547
CHECKED BY DATE			APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-2 / REV. 0

SITE TOPOGRAPHIC MAP
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

FORM CADD NO. SDIV_AV.DWG - REV 0 - 1/20/98

ACAD: 0547F1-3.dwg 08/15/01 HJP



LEGEND:

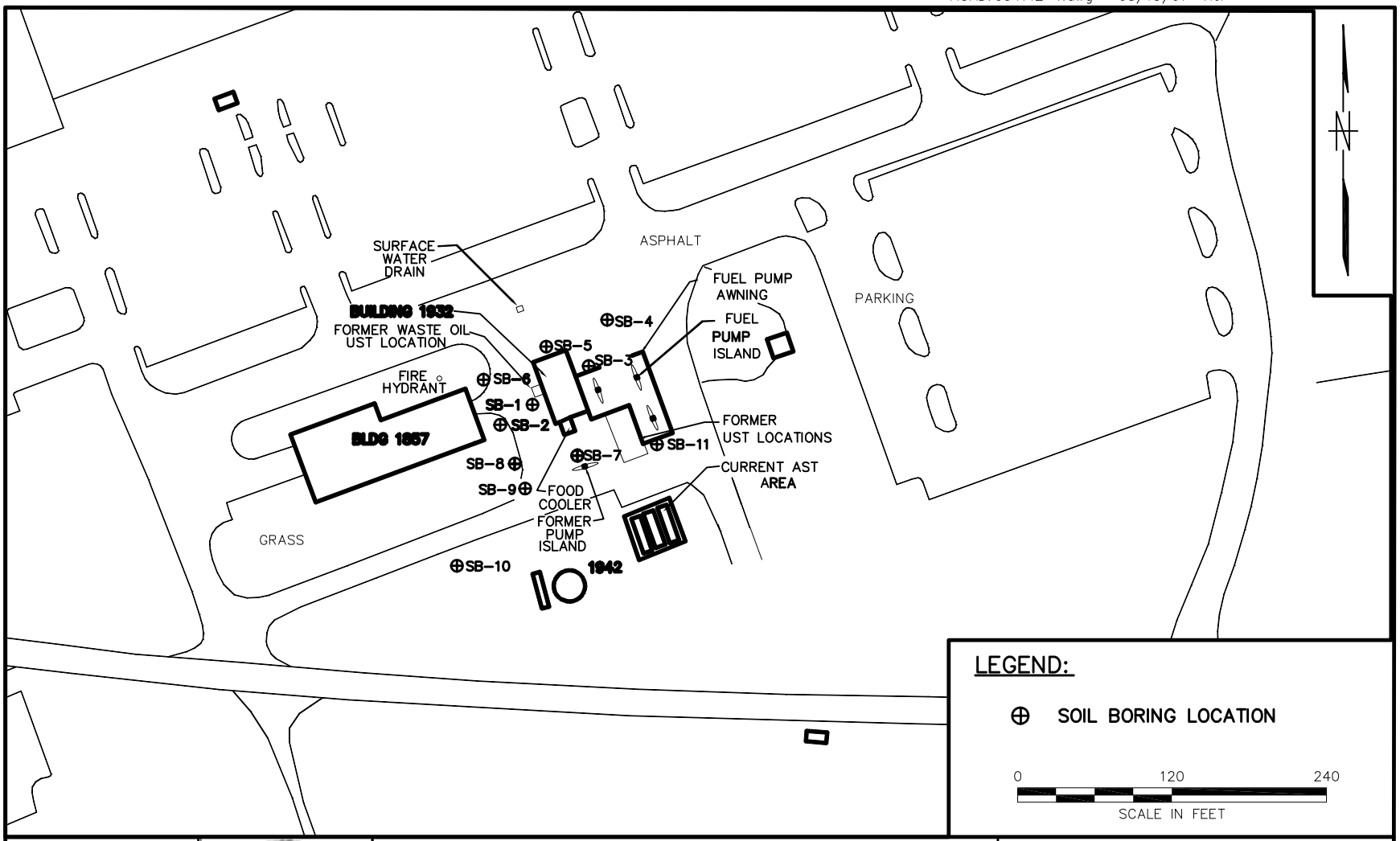
◐	MONITORING WELL LOCATION
● PP	POWER POLE
◆ UTM	UNDERGROUND TELEPHONE MARKER
—UGT—	UNDERGROUND TELEPHONE LINE
—CBL—	UNDERGROUND CABLE TV
—OHP—	OVEREAD POWER LINE
— PL —	UNDERGROUND PIPE LINE
—SAN—	SANITARY SEWER
—STM—	STORM SEWER

0 120 240
SCALE IN FEET

DRAWN BY DRA	DATE 7/19/01	SITE PLAN MAP SITE ASSESSMENT REPORT BUILDING 1932 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0547
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-3 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

ACAD: 0547f2-1.dwg 08/15/01 HJP



LEGEND:

⊕ SOIL BORING LOCATION

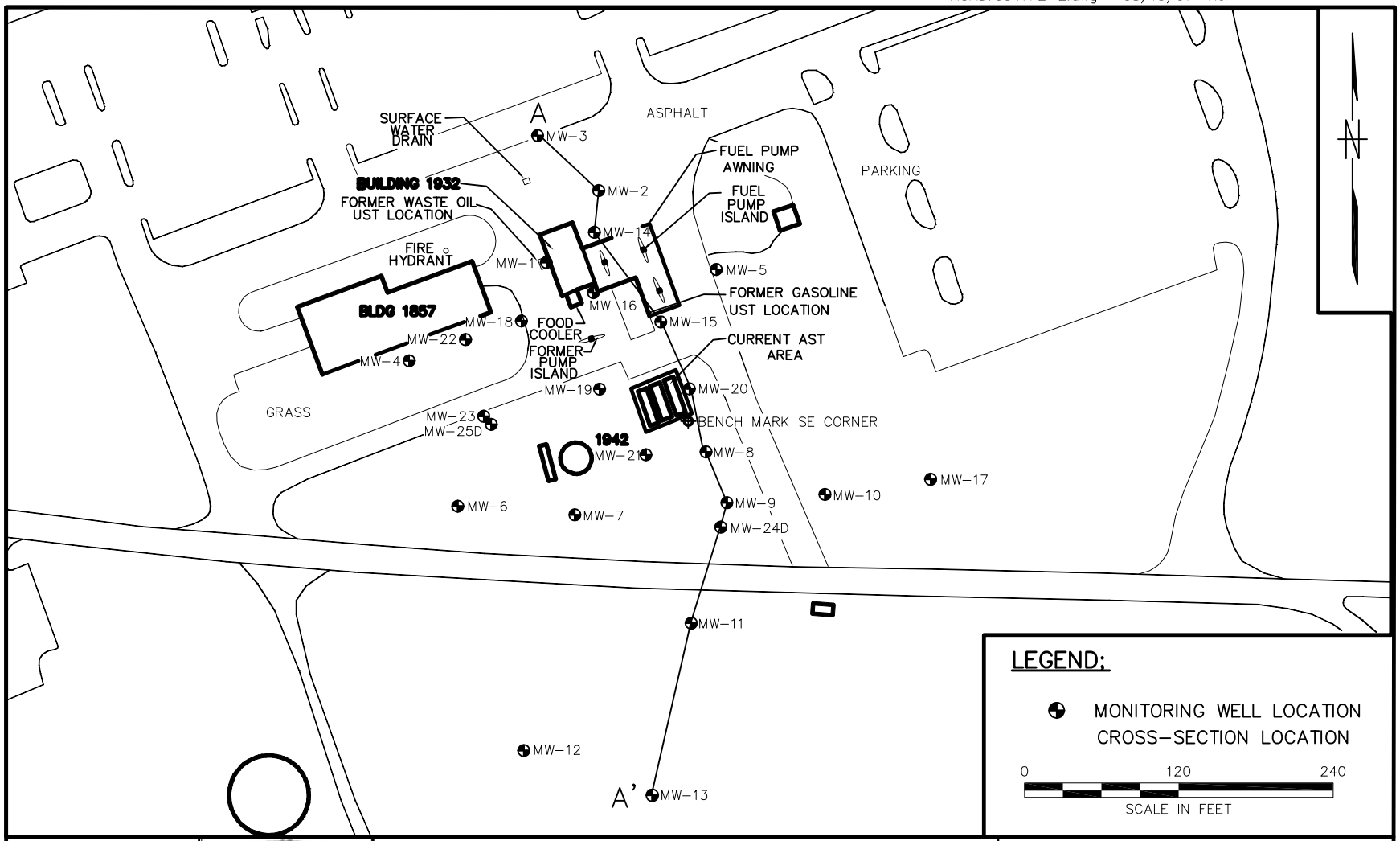
0 120 240

SCALE IN FEET

DRAWN BY DRA DATE 7/19/01	SOIL SAMPLING AND DPT BOREHOLE LOCATIONS SITE ASSESSMENT REPORT BUILDING 1932 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0547	
CHECKED BY DATE		APPROVED BY DATE	
COST/SCHED-AREA		APPROVED BY DATE	
SCALE AS NOTED		DRAWING NO. FIGURE 2-1	REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

ACAD: 0547F2-2.dwg 08/15/01 HJP



LEGEND:

MONITORING WELL LOCATION

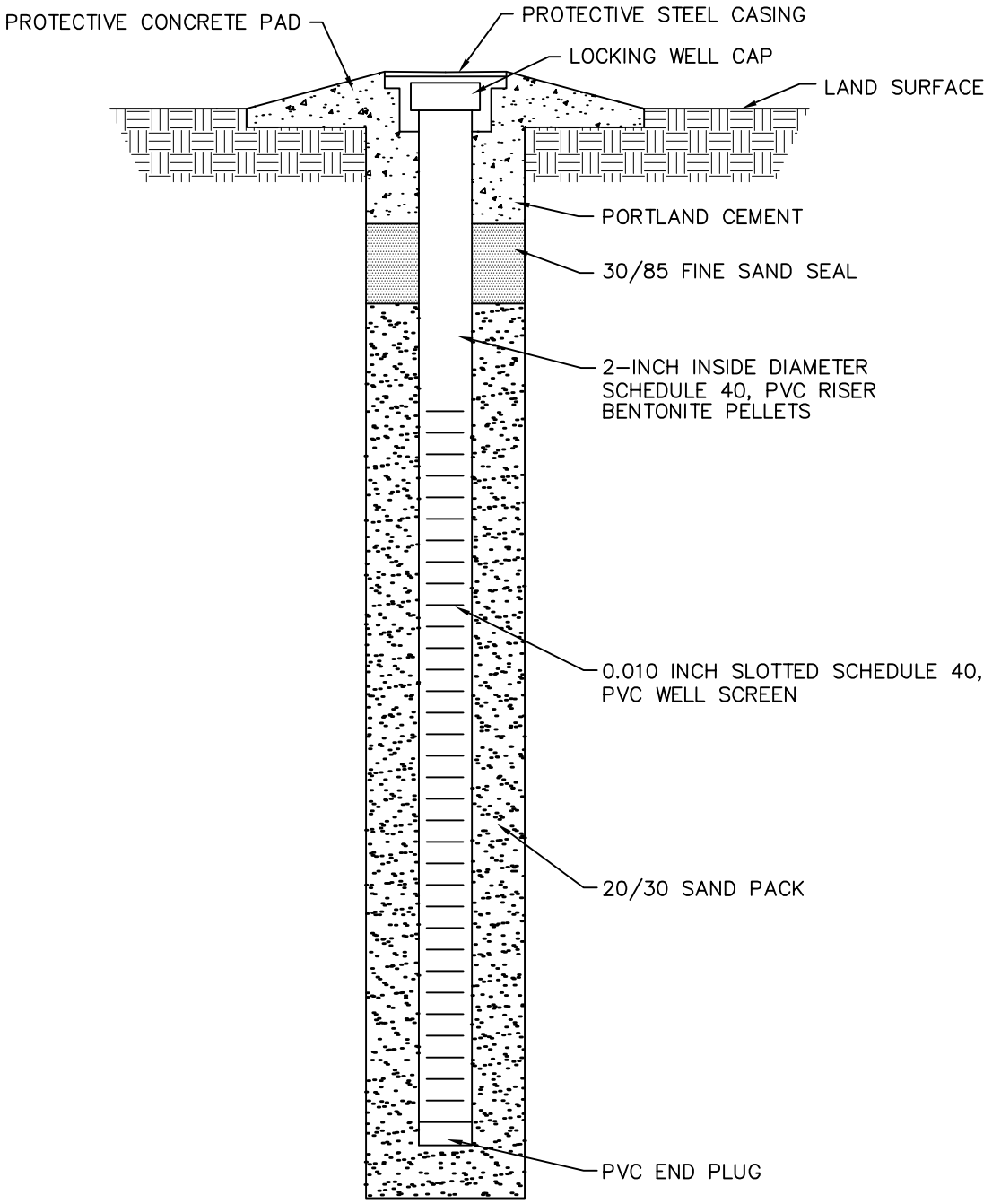
CROSS-SECTION LOCATION

0 120 240

SCALE IN FEET

DRAWN BY DRA DATE 7/19/01	MONITORING WELL LOCATIONS SITE ASSESSMENT REPORT BUILDING 1932 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0547	
CHECKED BY DATE		APPROVED BY DATE	
COST/SCHED-AREA		APPROVED BY DATE	
SCALE AS NOTED		DRAWING NO. FIGURE 2-2	REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98



NOTE:

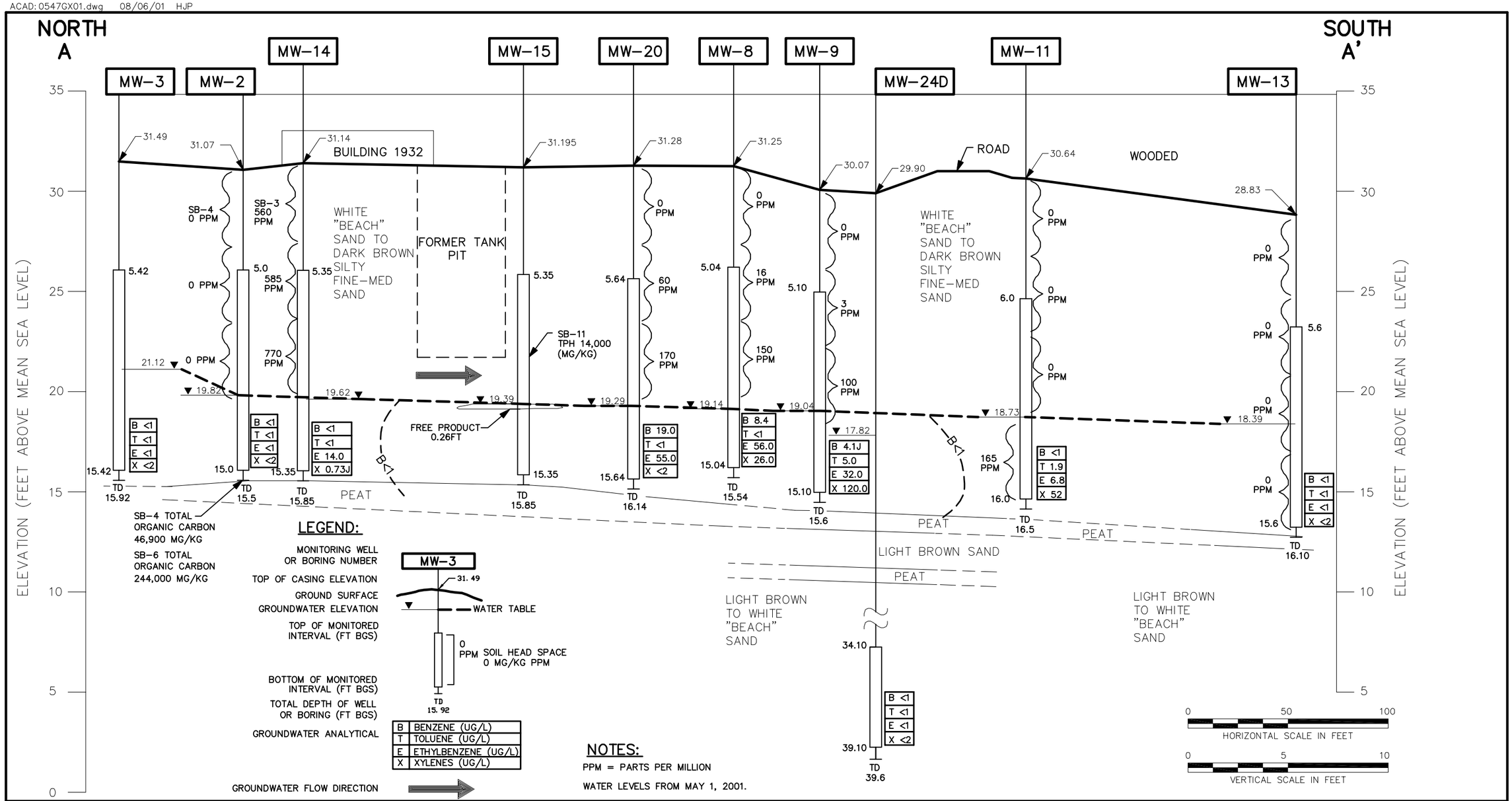
PVC = POLYVINYL CHLORIDE

DRAWN BY HJP DATE 7/31/01		TYPICAL SHALLOW AND INTERMEDIATE MONITORING WELL INSTALLATION DETAIL SITE ASSESSMENT REPORT NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0516
CHECKED BY DATE			APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-3 / REV. 0

FORM CADD NO. SDIV_AV.DWG - REV 0 - 1/20/98

ACAD:0547F2-3.dwg 08/15/01 HJP

ACAD: 0547GX01.dwg 08/06/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

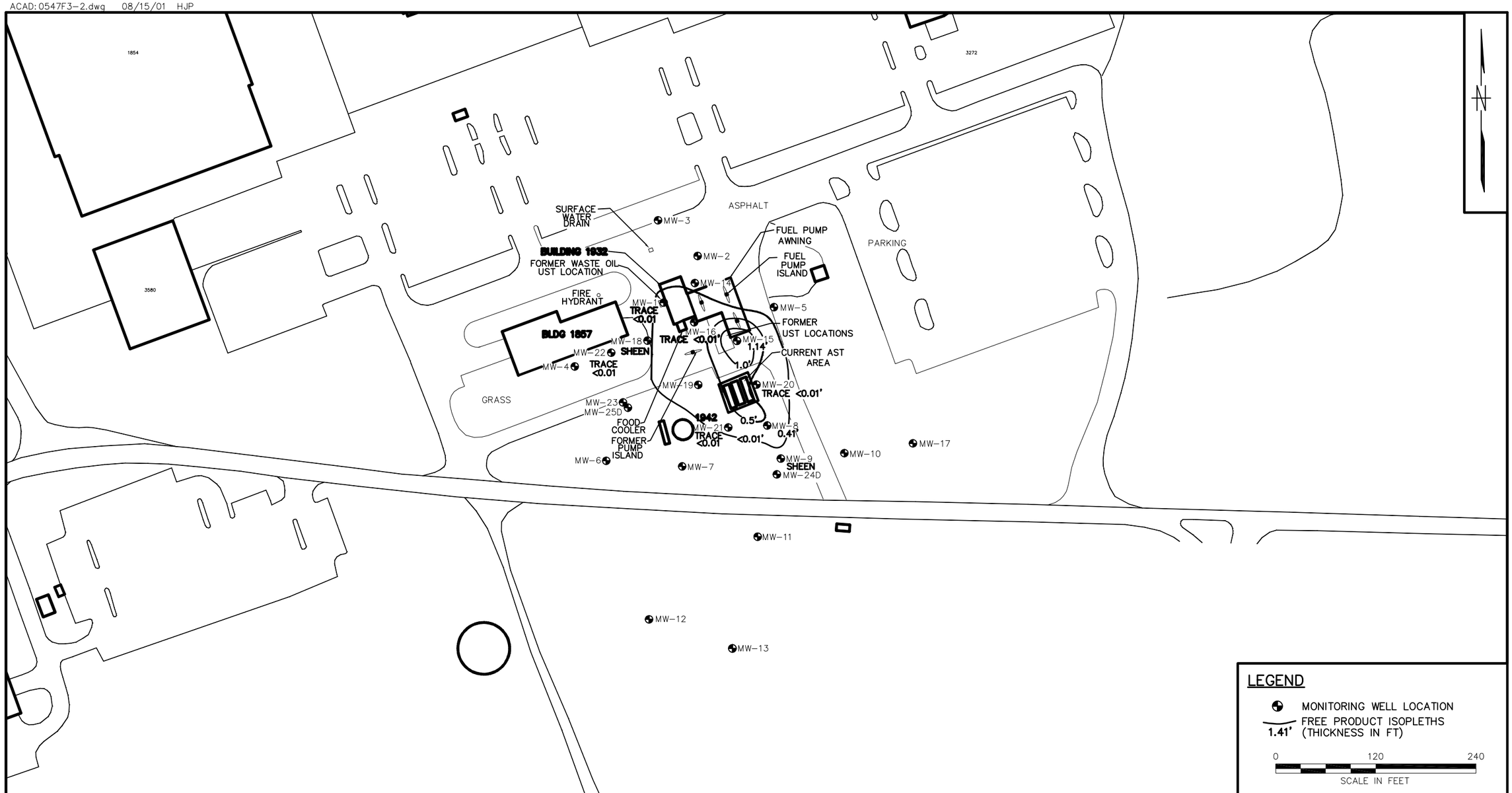
DRAWN BY HJP DATE 8/3/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

CROSS SECTION A-A'
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 3-1
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F3-2.dwg 08/15/01 HJP



LEGEND

MONITORING WELL LOCATION

1.41' FREE PRODUCT ISOPLETHS (THICKNESS IN FT)

0 120 240

SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY DRA DATE 7/19/01

CHECKED BY DATE

COST/SCHED-AREA

SCALE AS NOTED

FREE PRODUCT THICKNESS
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547

APPROVED BY DATE

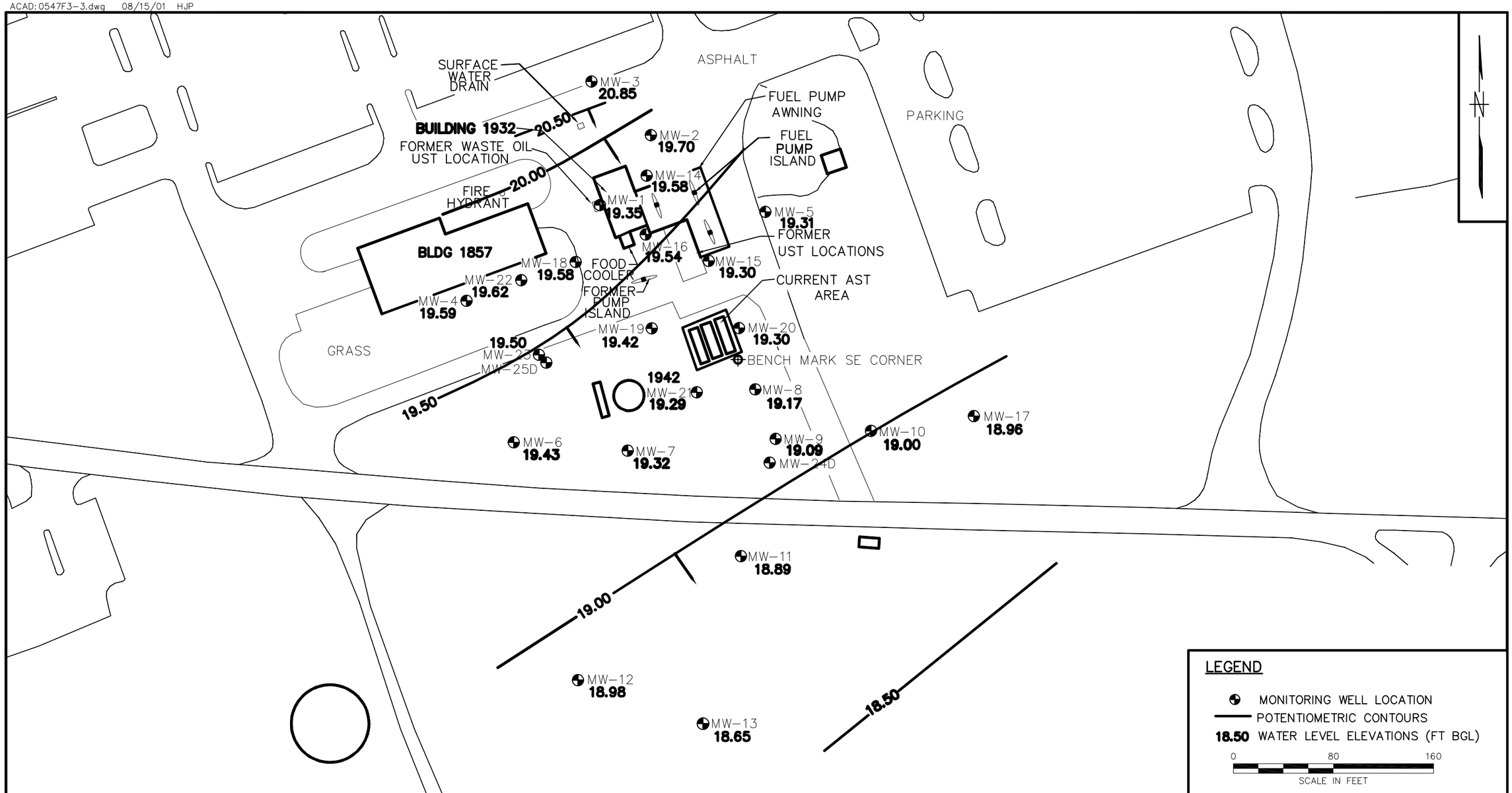
APPROVED BY DATE

DRAWING NO. FIGURE 3-2

REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F3-3.dwg 08/15/01 HJP



LEGEND

- MONITORING WELL LOCATION
- POTENTIOMETRIC CONTOURS
- **18.50** WATER LEVEL ELEVATIONS (FT BGL)

0 80 160
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

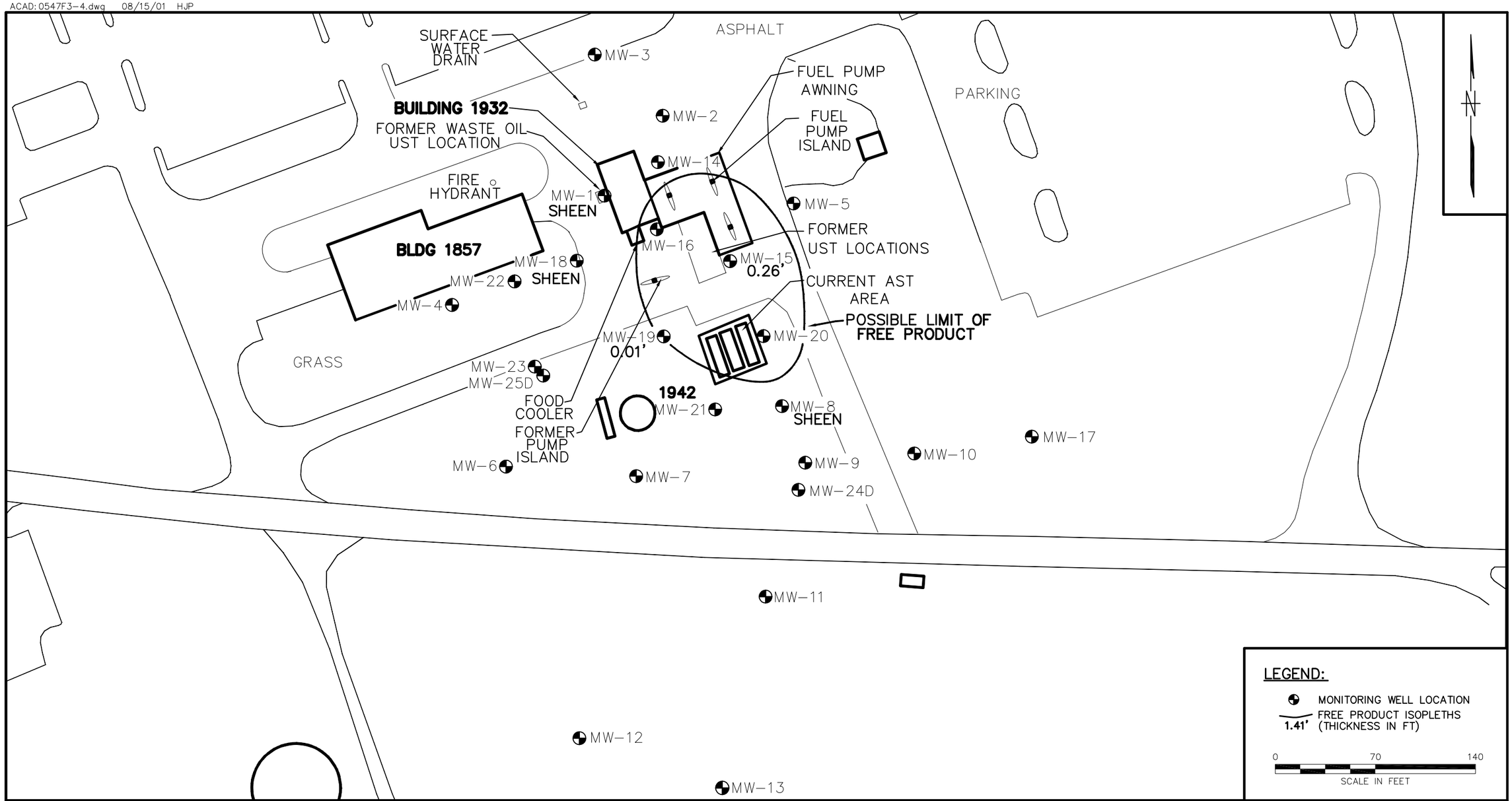
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

WATER LEVEL ELEVATIONS
11/08/00
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 3-3
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F3-4.dwg 08/15/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

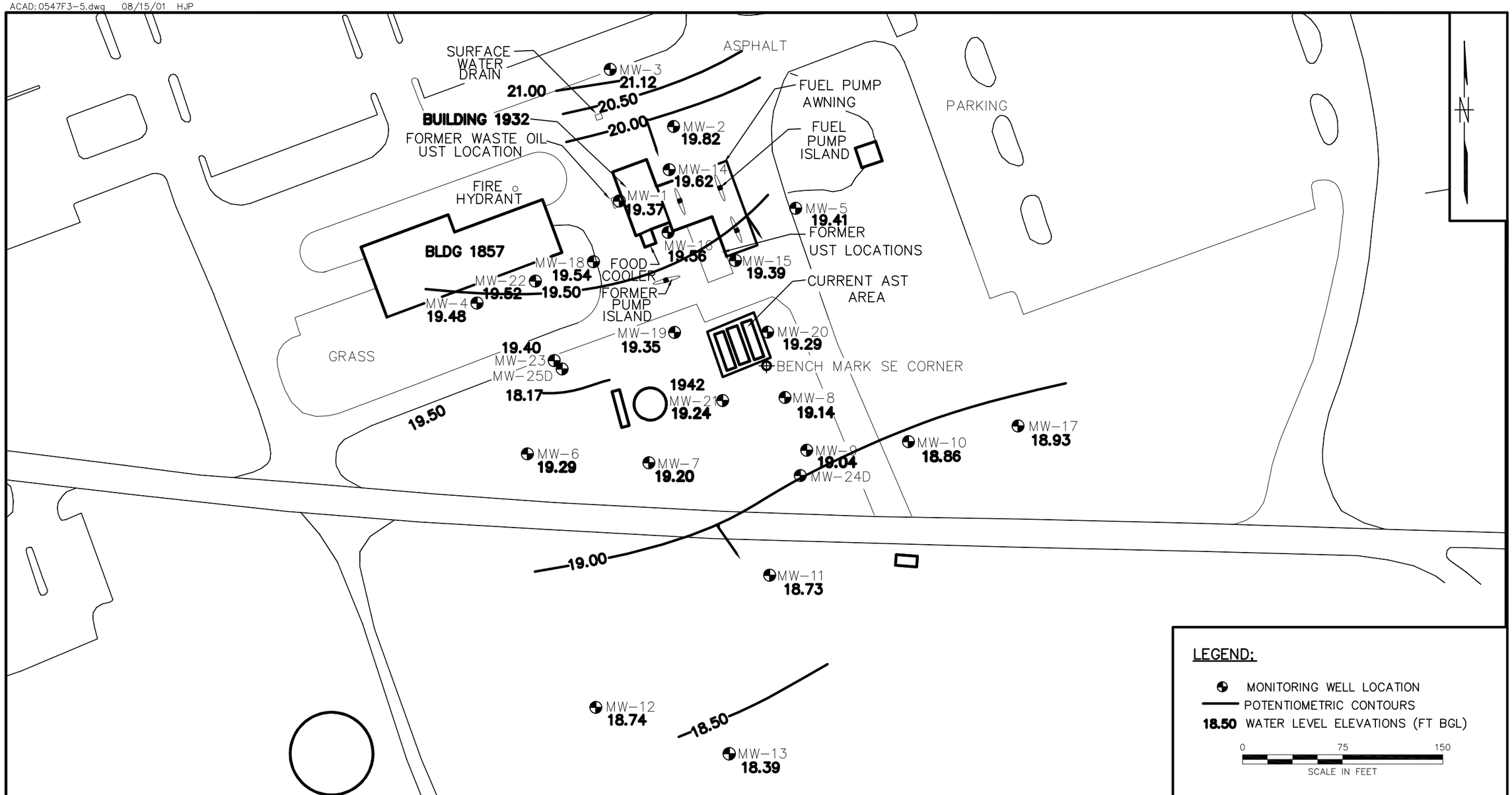
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

FREE PRODUCT THICKNESS
5/1/01
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 3-4
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F3-5.dwg 08/15/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

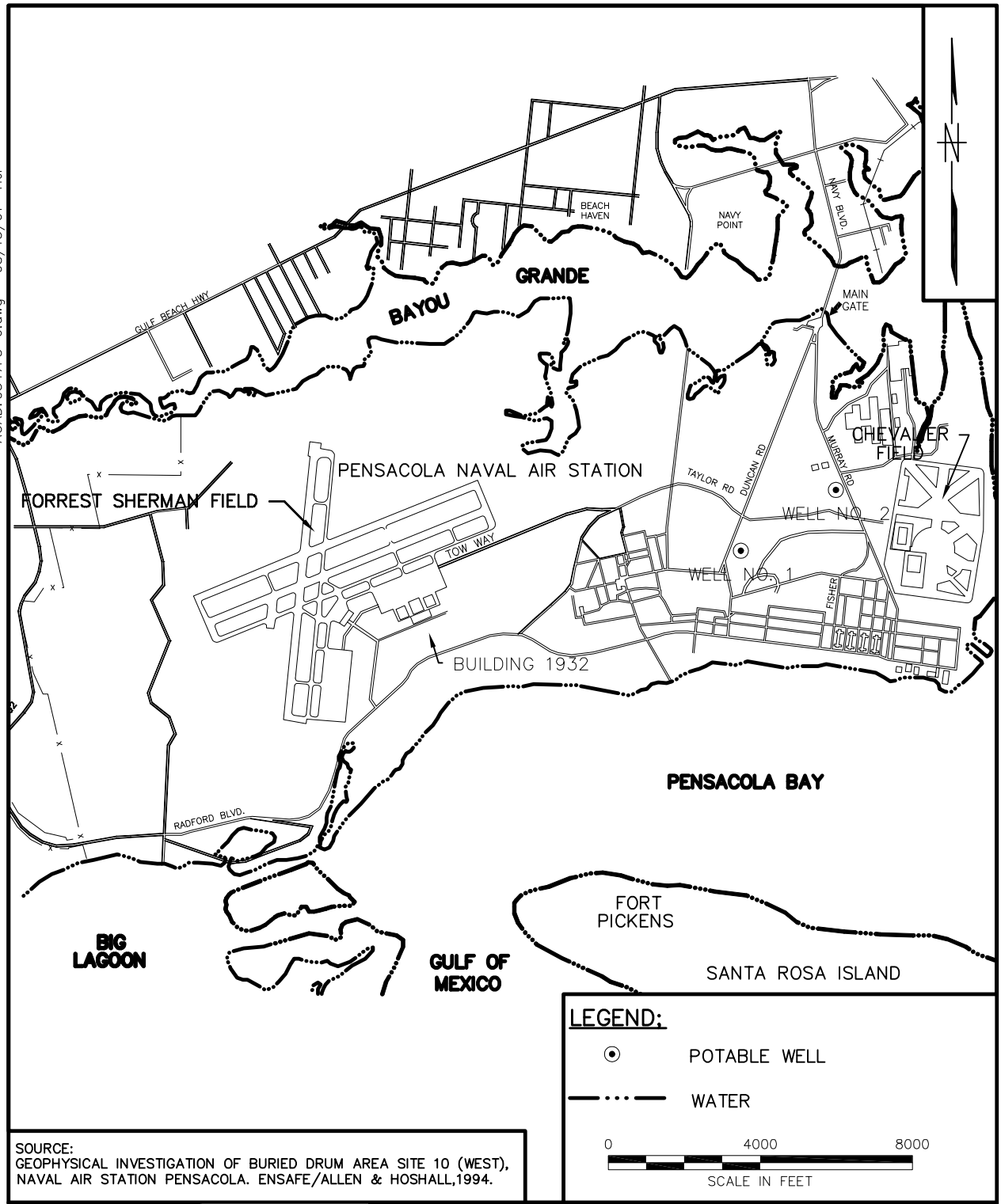
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

WATER LEVEL ELEVATIONS
5/01/01
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 3-5
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F3-6.dwg 08/15/01 HJP



LEGEND:

POTABLE WELL

WATER

0 4000 8000

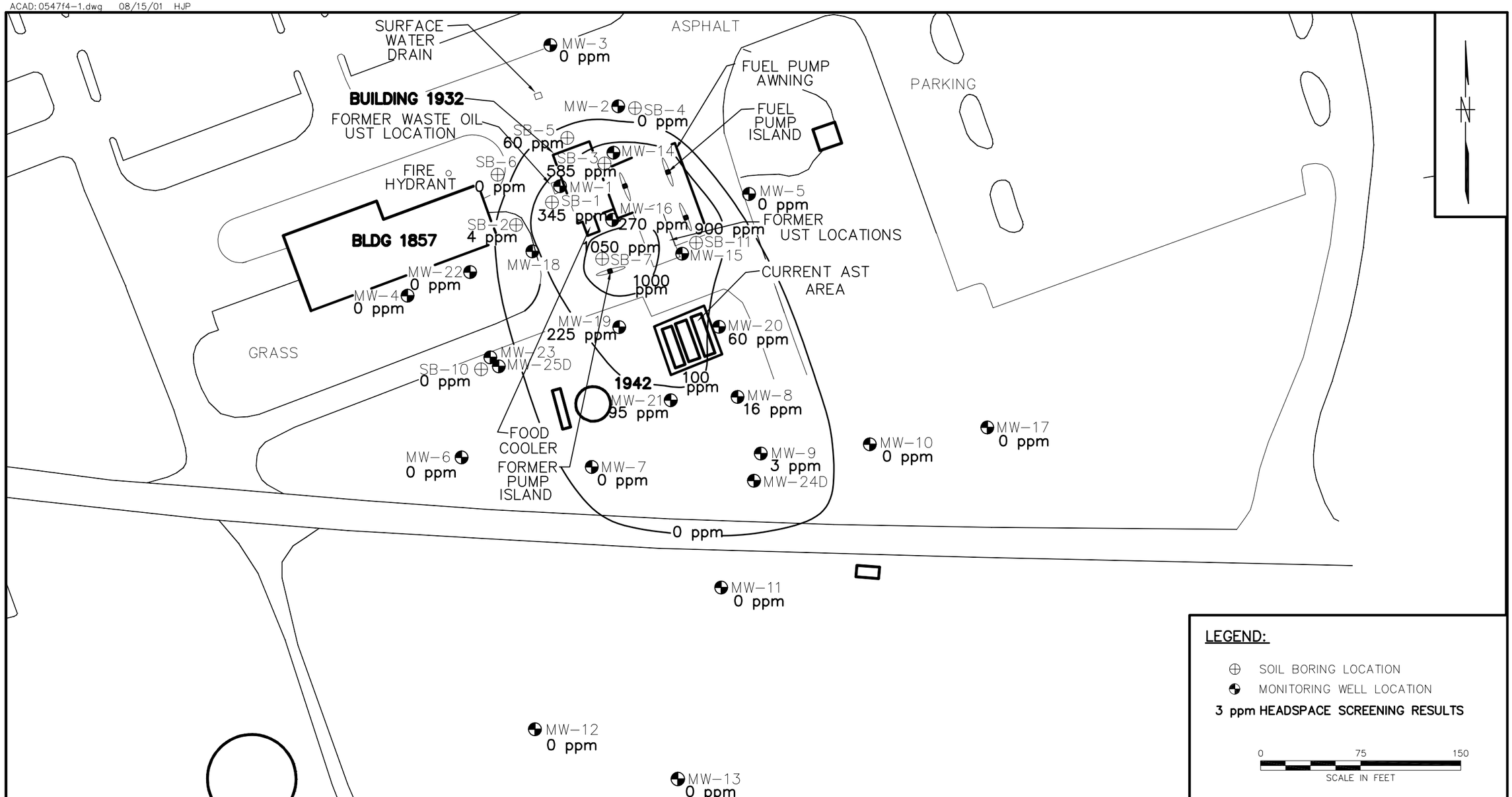
SCALE IN FEET

SOURCE:
GEOPHYSICAL INVESTIGATION OF BURIED DRUM AREA SITE 10 (WEST), NAVAL AIR STATION PENSACOLA. ENSAFE/ALLEN & HOSHALL,1994.

DRAWN BY DRA DATE 7/31/01		POTABLE WELL SURVEY SITE ASSESSMENT REPORT BUILDING 1932 NAS PENSACOLA PENSACOLA, FLORIDA	CONTRACT NO. 0547
CHECKED BY DATE			APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3-6 / REV. 0

FORM CADD NO. SDIV_AV.DWG – REV 0 – 1/20/98

ACAD: 0547f4-1.dwg 08/15/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

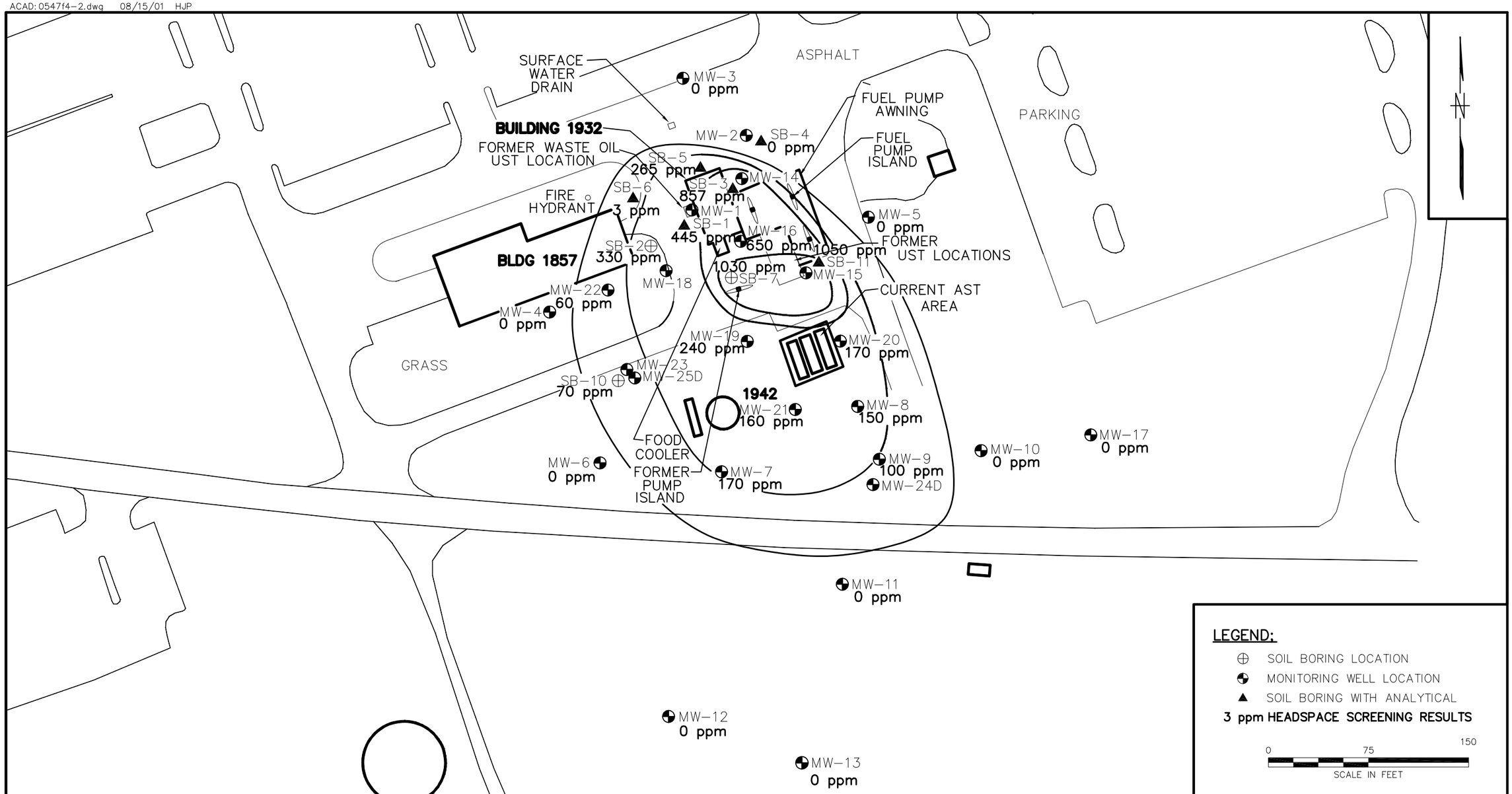
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SOIL HEADSPACE SCREENING RESULTS
4-8 FEET BGS
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-1
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547f4-2.dwg 08/15/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

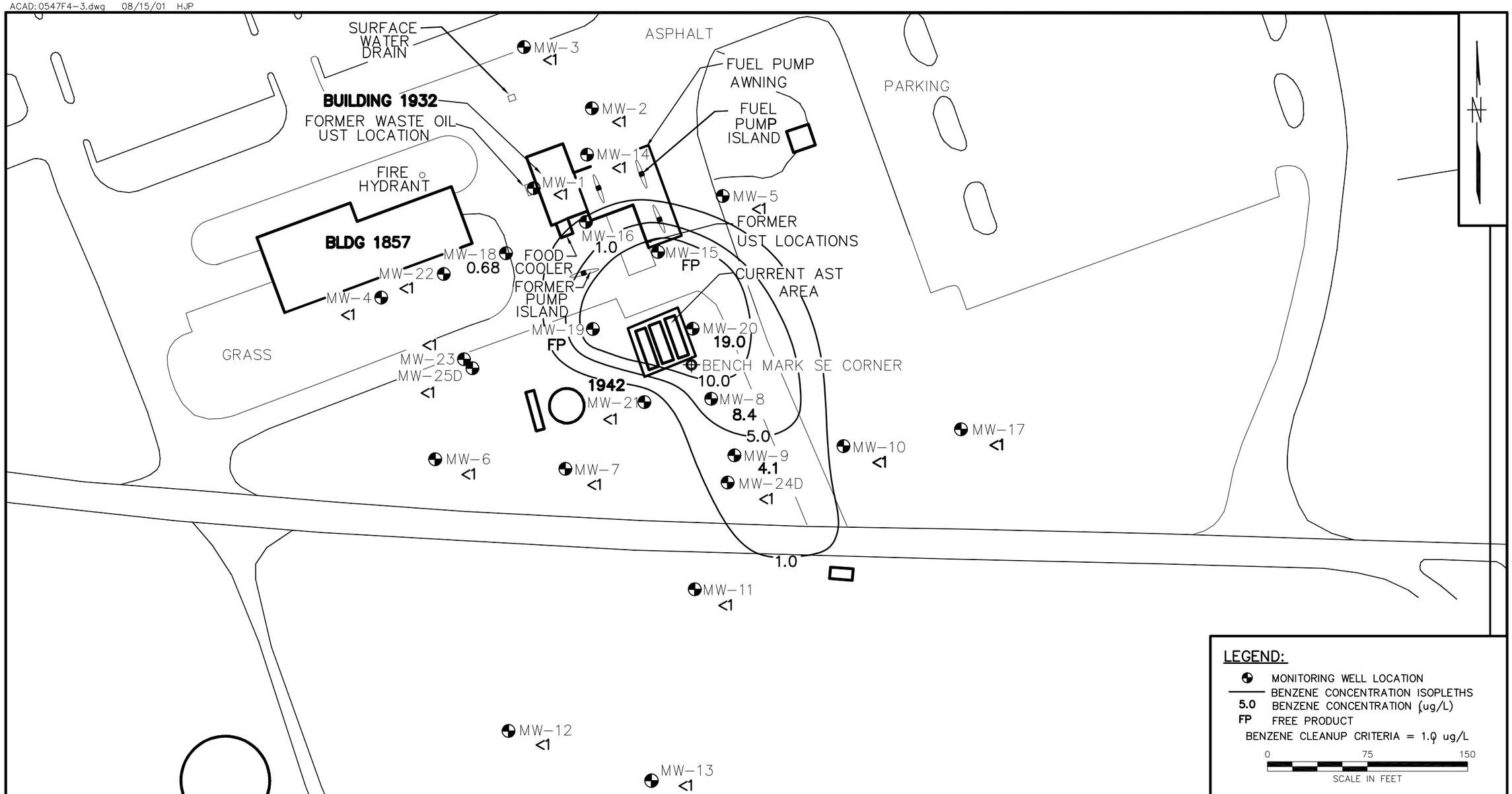
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

SOIL HEADSPACE SCREENING RESULTS
IMMEDIATELY ABOVE WATERTABLE
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-2
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F4-3.dwg 08/15/01 HJP



LEGEND:

- MONITORING WELL LOCATION
- BENZENE CONCENTRATION ISOPLETHS
- 5.0 BENZENE CONCENTRATION (ug/L)
- FP FREE PRODUCT

BENZENE CLEANUP CRITERIA = 1.0 ug/L

0 75 150
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

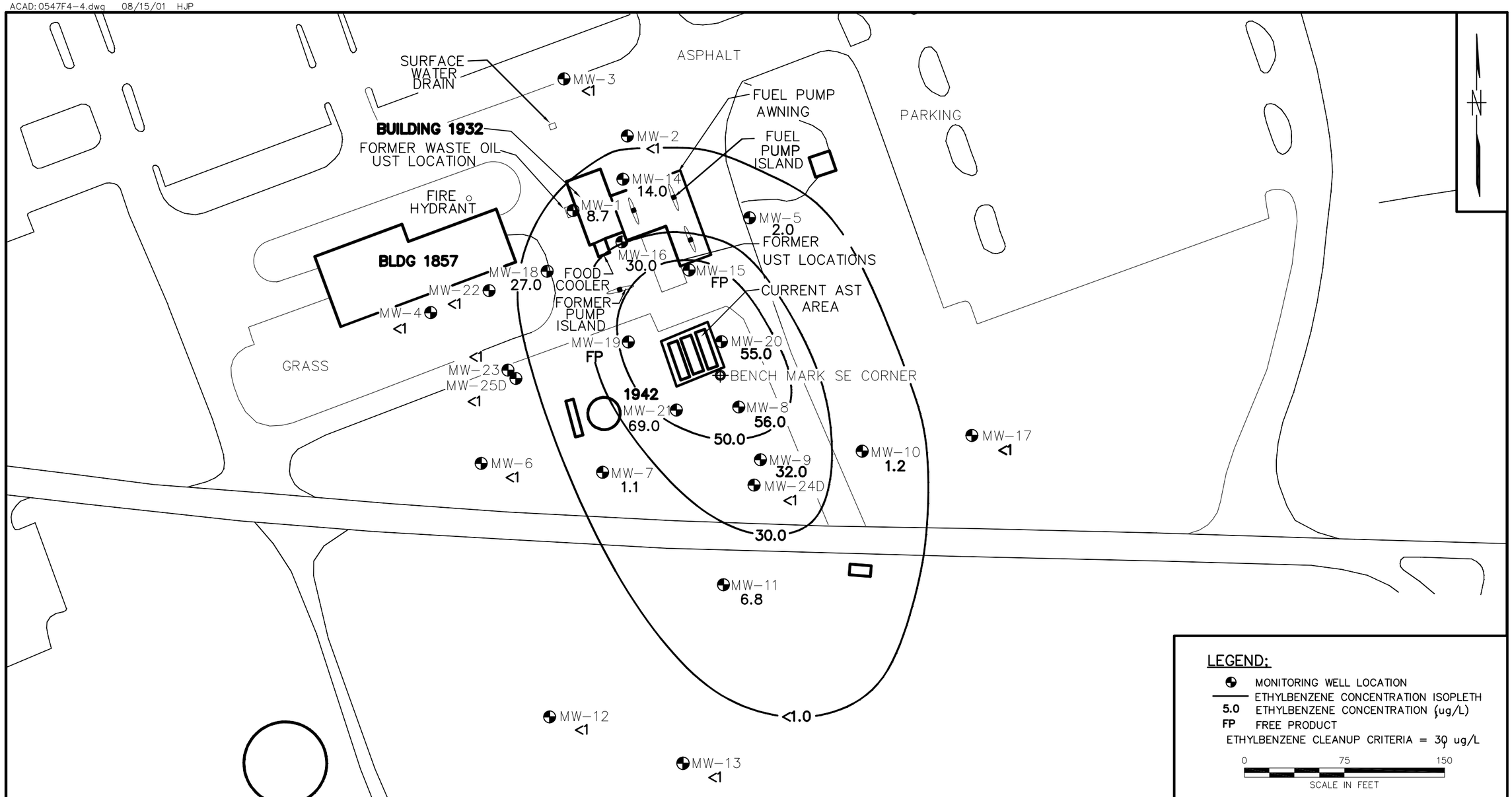
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER QUALITY MAP
BENZENE – MAY 2001
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-3
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F4-4.dwg 08/15/01 HJP



LEGEND:

- MONITORING WELL LOCATION
- ETHYLBENZENE CONCENTRATION ISOPLETH
- 5.0 ETHYLBENZENE CONCENTRATION (ug/L)
- FP FREE PRODUCT
- ETHYLBENZENE CLEANUP CRITERIA = 30 ug/L

0 75 150
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

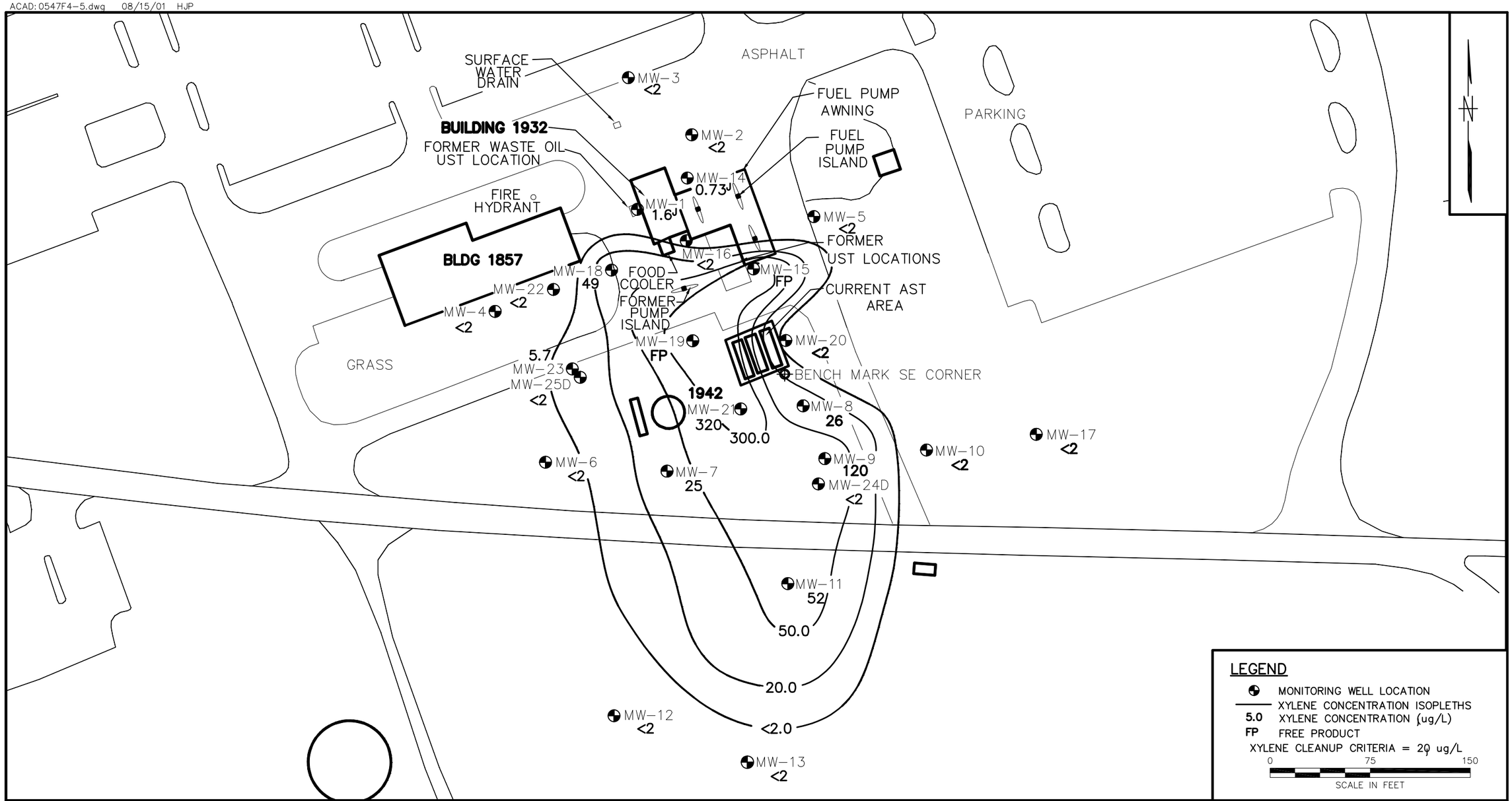
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER QUALITY MAP
ETHYLBENZENE – MAY 2001
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-4
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F4-5.dwg 08/15/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

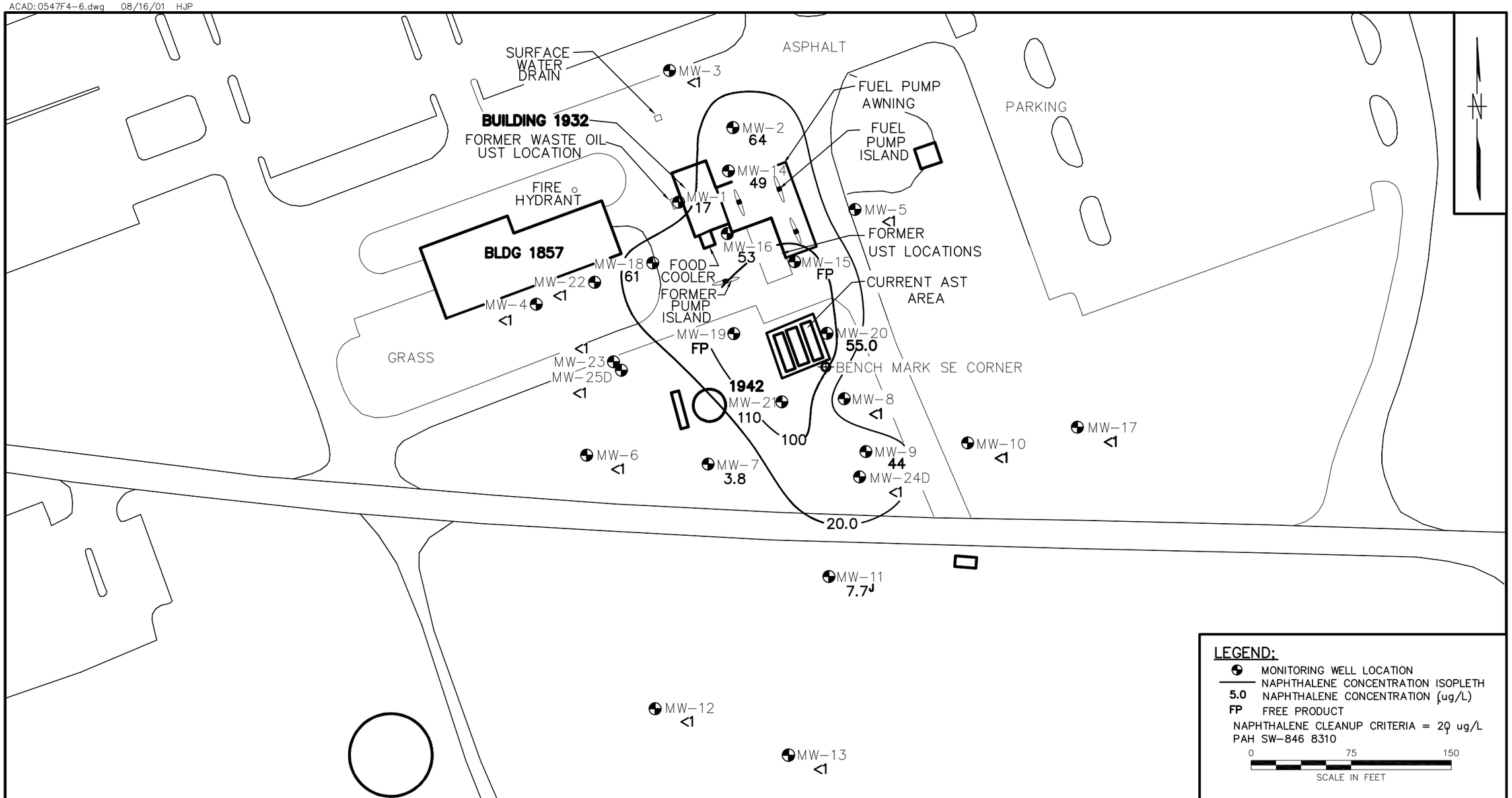
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER QUALITY MAP
TOTAL XYLENES – MAY 2001
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-5
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F4-6.dwg 08/16/01 HJP



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

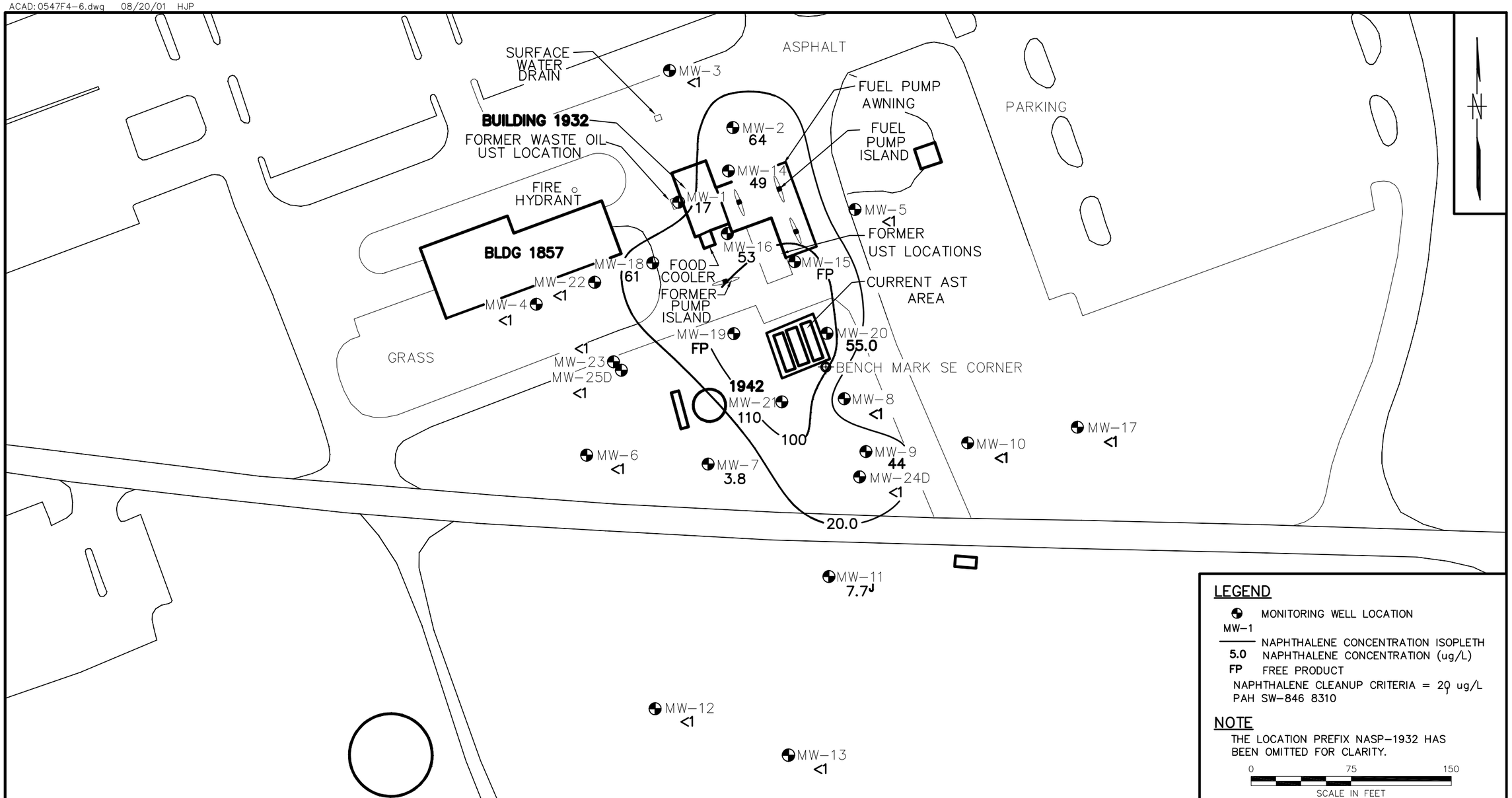
DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER QUALITY MAP
NAPHTHALENE – MAY 2001
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-6
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

ACAD: 0547F4-6.dwg 08/20/01 HJP



LEGEND

- MONITORING WELL LOCATION (MW-1)
- NAPHTHALENE CONCENTRATION ISOPLETH
- 5.0 NAPHTHALENE CONCENTRATION (ug/L)
- FP FREE PRODUCT
- NAPHTHALENE CLEANUP CRITERIA = 20 ug/L
- PAH SW-846 8310

NOTE

THE LOCATION PREFIX NASP-1932 HAS BEEN OMITTED FOR CLARITY.

0 75 150
SCALE IN FEET

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY DRA DATE 7/19/01
CHECKED BY DATE
COST/SCHED-AREA
SCALE AS NOTED

GROUNDWATER QUALITY MAP
NAPHTHALENE – MAY 2001
SITE ASSESSMENT REPORT
BUILDING 1932
NAS PENSACOLA
PENSACOLA, FLORIDA

CONTRACT NO. 0547
APPROVED BY DATE
APPROVED BY DATE
DRAWING NO. FIGURE 4-7
REV. 0

FORM CADD NO. SDIV_BH.DWG - REV 0 - 1/20/98

APPENDIX A

SITE ASSESSMENT REPORT SUMMARY SHEET

SITE ASSESSMENT REPORT SUMMARY SHEET

Facility Name: Building 1932, UST Site 000025, Navy Exchange "Touch N Go" Service Station, Naval Air Station, Pensacola

Reimbursement Site: ☐

Location: Pensacola, Florida

State Contract Site: ☐

EDI #: _____ FAC I.D.# unregulated Other: Non-Prog. ☑

Date Reviewed: _____ Local Government: _____

(1) Source of Spill: USTs and Former Dispenser Island

Date of Spill: Unknown but prior to 1994 when reported

(2) Type of Product:

Gasoline Group	Gallons Lost	Kerosene Group	Gallons Lost
☐ Leaded		☐ Kerosene	
☐ Unleaded Regular		☑ Diesel	Unknown
☐ Unleaded Premium		☐ JP-4 Jet Fuel	
☐ Gasohol		☐ Jet A Fuel	
☐ Undetermined		☐ Unknown	

(3) Description of IRA: Bailing

☑ Free product Removal: 0.2 (gals)
☐ Soil Removal: _____ (cubic yds)
☐ Soil Incineration: _____ (cubic yds)

(4) Free Product still present (yes/no) Yes Maximum apparent product thickness: 1.13 (feet)

(5) Maximum Groundwater contamination levels (ppb):

Total VOA:	943	benzene:	19	EDB:	<0.05
lead:	<10	MTBE:	13	other:	39,000 TRPH & PAHs

(6) Brief lithologic description: White silty "beach" sand. Significant lithologic variation at approximately 16 FBGS, where an approximately 1 foot thick peat layer is encountered that acts as an aquitard.

(7) Areal and vertical extent of soils contamination defined (yes/no) Yes

Highest current soil concentration (OVA: 1,050 ppm) or (EPA method 5030/8020: 1,520 ppb)

(8) Lower aquifer contaminated? (yes/no) No

Depth of vertical contamination: Less than 35 feet (MW-24D) and probably doesn't extend beneath the peat layer at 16 feet.

(9) Date of last complete round of groundwater sampling: 5/06/01 Date of last soil sampling: 8/08/00

(10) QAPP approved? (yes/no) Date: _____

(11) Direction (e.g. NNW) of surficial groundwater flow: S-SE Figure 1-2 on page _____

(12) Average depth to groundwater: 11 (ft)

(13) Observed range of seasonal groundwater fluctuations: Approx. 2 ft (ft) (Based on water level data collected initially vs. during sampling)

(14) Estimated rate of groundwater flow: 2.89 seepage velocity (ft/day)

(15) Hydraulic gradient across site: 0.00465 (ft/ft)

(16) Aquifer characteristics:

	Values	Units	Method
Hydraulic conductivity	185 to 186	ft/day	Slug Tests
Storage coefficient	-	ft/ft	-
Aquifer thickness	500	ft	Literature
Effective soil porosity	30	%	Literature
Transmissivity	16,740	ft^2/day	Slug Tests

(17) Other remarks: None

APPENDIX B

TANK CLOSURE REPORT AND HISTORIC DATA

DEPARTMENT OF THE NAVY
COMMANDING OFFICER
NAS PENSACOLA
190 RADFORD BLVD
PENSACOLA, FLORIDA 32508-5217

IN REPLY REFER TO

5090
Ser 00500/217/ 1700
18 AUG 1994

Mr. W. E. Grimsley, Jr.
Environmental Supervisor II
Environmental Health Services
Petroleum Tank Section
1190 West Leonard Street, Suite 2
Pensacola, Florida 32501

RE: UNDERGROUND STORAGE TANK DISCHARGE REPORT FOR BUILDING 1932, NAVAL AIR STATION PENSACOLA

Dear Mr. Grimsley:

The Navy Public Works Center Pensacola, during the process of removing the 500-gallon waste oil underground storage tank, No. 1932F, discovered an unknown quantity of waste oil in the area surrounding the tank. The discovered quantity was not a result of the removal process, it appeared to have occurred previously. As required by the Florida Department of Environmental Protection (FDEP) and per Florida Administrative Code (FAC), Section 17-770.460(2), the discharge reporting form is submitted.

Should you have any further questions, please contact Mr. Dean Spencer, P.E., at (904) 452-3900.

Sincerely,

TIMOTHY THOMSON
Captain, U.S. Navy
Commanding Officer

Encl:
(1) FDEP Discharge Reporting Form 17-761.900(1)

Copy to:
SOUTHNAVFACENGCOM (L. Vazquez)
PWC Pensacola (Code 911.2)

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Form Title: Discharge Reporting Form
Effective Date: December 10, 1990
DER Application No. _____ (Filled in by DER)

Discharge Reporting Form

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE
Complete all applicable blanks

1. DER Facility ID Number: 17/9202973 2. Tank Number: 1932-F 3. Date: 8/3/94
4. Facility Name: U.S. Navy - Naval Air Station
   Facility Owner or Operator: Commanding Officer, Naval Air Station
   Facility Address: Building 1932, Naval Air Station
   Telephone Number: (904) 452-3900 County: Escambia
   Mailing Address: 190 Radford Boulevard, Pensacola, Florida 32508-5217
5. Date of receipt of test results or discovery: August 2, 1994 month/day/year
6. Method of initial discovery. (circle one only)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   (G.) Closure: OVA (explain)
   H. Other: _____
7. Estimated number of gallons discharged: Unknown
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E.) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   B. unleaded gasoline
   C. gasohol
   D. vehicular diesel
   F. aviation gas
   G. jet fuel
   (L.) used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   Z. other (write in name) _____
10. Cause of leak. (circle all that apply)
    (A.) Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill _____
    H. Overfill
    I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    (C.) Not applicable
    D. None

To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.

COMMANDING OFFICER, NAS PENSACOLA
TIMOTHY THOMSON, CAPTAIN, USN
Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative

INC.

111 South Armenia Avenue
Tampa, Florida 33609
(813) 874-8204
FAX (813) 874-7842

1320 North Ninth Avenue
Pensacola, Florida 32503
(904) 438-8133
FAX (904) 438-8199

March 17, 1995

Mr. Paul Semmes
Environmental Engineer
Navy Public Works Center
Naval Air Station Pensacola
310 John Tower Road, Code 911.2
Pensacola, FL 32508-5303

RE: Monitoring Well Installation Report for Buildings 3630, 1932 and 3592 at Naval Air Station Pensacola in Pensacola, Florida

Dear Paul:

On March 13, 1995, FGS, Inc., and Pensacola Testing Laboratories, Inc. (drilling subcontractors) installed three shallow groundwater monitoring wells in the vicinity of the above-referenced buildings. The wells were identified based on the associated building numbers, i.e. MW-3630, MW-1932 and MW-3592. Monitoring wells MW-3630 and MW-3592 were completed as temporary wells as per the contract, however, based on field observations indicating soil and groundwater contamination and our subsequent conversation at the site, MW-1932 was completed as a permanent, flush-mounted monitoring well. Well construction details and lithologic soil borings are included as attachments to this report.

On March 14, 1995, FGS personnel sampled the three monitoring wells in accordance with FGS' Florida Department of Environmental Protection (FDEP)-approved Comprehensive Quality Assurance Plan (No. 890395G). Well sample records are also included with this report. Samples were collected for analysis by EPA Method Nos. 8260 and 8270-A for volatile organic and semi-volatile organic compounds, respectively. The sample collected from well MW-1932 was duplicated. An equipment rinsate blank (RB-1) was collected by rinsing a decontaminated bailer with organic free water supplied by the Public Works Center (PWC) laboratory. A trip blank (TB-1) was also furnished by the PWC laboratory. All samples were delivered to the PWC laboratory on March 15, 1995. A copy of the Chain of Custody is also attached. Laboratory results will be furnished to you directly from the laboratory.

FGS recommends that the soil and groundwater associated with the former waste oil tank at Building 1932 be addressed in accordance with Chapter 62-770 of the Florida Administrative Code. If FGS can be of any assistance in this matter or if you have any questions regarding this report, please contact me or Mr. Chris Weddle at (904)438-8133.

Sincerely,

FGS, Inc.

Amy Twitty, P.G. 3/17/95
Florida License No. 1703
Project Manager

BORING LOG

SOIL BORING NO. MW-3592

FGS PROJECT NO.: P95-137

PROJECT NAME:	NAS PENSACOLA	**DATE & TIME BEGAN/FINISHED:**	3/13/95
LOCATION:	PENSACOLA, FLORIDA	**TOTAL DEPTH:**	15'
CLIENT NAME:	NAS PENSACOLA	**SURFACE ELEVATION:**	NA
GEOLOGIST:	AMY TWITTY	**DRILLING METHOD:**	HOLLOW STEM
DRILLING CONTRACTOR:	PENSACOLA TESTING LABS	**GROUNDWATER DEPTH:**	7.5'

GEOLOGICAL DESCRIPTION	
DEPTH (FT)	MATERIALS DESCRIPTION NOTES/OBSERVATIONS
0 - 0.2	Light brown, silty, fine to medium-grained sand.
0.2 - 1	Grayish-brown silty sand.
1 - 5	Yellow-brown, fine to medium-grained sand.
5 - 8	Tan, medium to coarse-grained sand. Wet between 6 and 7 feet BLS. No odors.
8 - 15	Buff white, medium to coarse-grained quartz sand.

NOTES:

BLS - Below land surface

BORING LOG

SOIL BORING NO. MW-3630

FGS PROJECT NO.: P95-137

PROJECT NAME:	NAS PENSACOLA	DATE & TIME BEGAN/FINISHED:	3/13/95
LOCATION:	PENSACOLA, FLORIDA	TOTAL DEPTH:	13'
CLIENT NAME:	NAS PENSACOLA	SURFACE ELEVATION:	NA
GEOLOGIST:	AMY TWITTY	DRILLING METHOD:	HOLLOW STEM
DRILLING CONTRACTOR:	PENSACOLA TESTING LABS	GROUNDWATER DEPTH:	5.1'

GEOLOGICAL DESCRIPTION	
DEPTH (FT)	MATERIALS DESCRIPTION NOTES/OBSERVATIONS
0 - 0.1	Grass
0.1 - 3	Brown silty, fine to medium-grained sand with brick fragments. One-inch layer of black silty sand at approximately 0.7 feet BLS. No odors.
3 - 15	Light gray to buff white medium to coarse-grained quartz sand. Becomes whiter with depth. Damp at 5 feet, wet at approximately 6 feet BLS.

NOTES:

BLS - Below land surface

P94-645.SBL

BORING LOG

SOIL BORING NO. MW-1932 MW-1

FGS PROJECT NO.: P95-137

PROJECT NAME:	NAS PENSACOLA	**DATE & TIME BEGAN/FINISHED:**	3/13/95
LOCATION:	PENSACOLA, FLORIDA	**TOTAL DEPTH:**	17'
CLIENT NAME:	NAS PENSACOLA	**SURFACE ELEVATION:**	NA
GEOLOGIST:	AMY TWITTY	**DRILLING METHOD:**	HOLLOW STEM
DRILLING CONTRACTOR:	PENSACOLA TESTING LABS	**GROUNDWATER DEPTH:**	9.7

GEOLOGICAL DESCRIPTION	
DEPTH (FT)	**MATERIALS DESCRIPTION NOTES/OBSERVATIONS**
0 - 0.1	Asphalt
0.1 - 3	Medium brown with yellow brown silty fine to medium grained sand. Slight oil/solvent odor.
3 - 16	Dark gray to black, medium to coarse grained quartz sand. Stained with petroleum. Strong petroleum odors (diesel). Wet at 8 - 9 feet.
16 - 17	Dark brown peat. Organic odor.

NOTES:

LOG OF MONITORING WELL

Sheet 1 of 1

Project Name: NAS PENSACOLA

Job # T95-137

Location: NAS-BUILDING 1932

Facility: BUILDING 1932

MW-1

MW Number: MW-1932

Start Date/Time: 3-13-95 / 1300

Finish Date/Time: 3-13-95/1430

Logged By: A. TWITTY

Top Of Casing Elevation: N/A

Drilling Contractor: PENSACOLA TESTING LAB

Surface Elevation: N/A

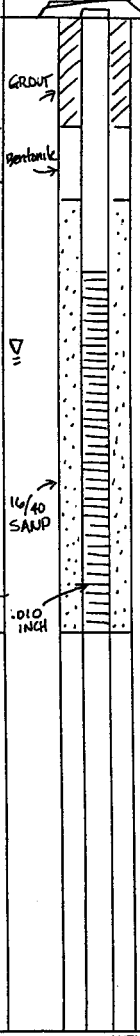
Total Depth: 17 FEET

Driller: JOHN KASIC

Depth Feet	Sampler Type	Sample ID #	Contamination: Odor	Contamination: OVA/HNu ppm	Contamination: Visible Y=Yes N=No	Soil Rock Symbol	Soil and Rock Description/Comment
			Y	N/A	Y	SM	ASPHALT MEDIUM BROWN AND YELLOW BROWN, SILTY, FINE TO MEDIUM-GRAINED SAND. SLIGHT OIL/SOLVENT ODORS.
5			Y		Y	SP	DARK GRAY TO BLACK, MEDIUM TO COARSE-GRAINED SAND. STAINED WITH PETROLEUM CONTAMINATION. CONCRETE AT 6'
10			Y		Y		WET
15			Y		Y		
						PT	DARK BROWN PEAT. ORGANIC ODOR
							END OF BORING
20							
25							

Monitor Well Data

Material Description



WELLOG.CDR

Project Name: NAS PENSACOLA

Job # T95-137

Location: NAS-BUILDING 3630

Facility: BUILDING 3630

Start Date/Time: 3-13-95 /1115

MW Number: MW-3630

Finish Date/Time: 3-13-95 /1240

Logged By: A. TWITTY

Top Of Casing Elevation: N/A

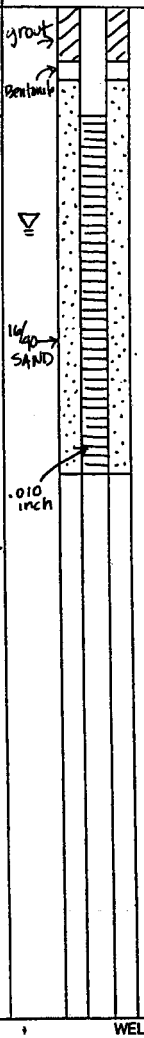
Drilling Contractor: PENSACOLA TESTING LABS

Surface Elevation: N/A

Total Depth: 13 FEET

Driller: JOHN KASIC

Depth Feet	Sampler Type	Sample ID #	Contamination: Odor	Contamination: OVA/HNu ppm	Contamination: Visible Y=Yes N=No	Soil Rock Symbol	Soil and Rock Description/Comment	Monitor Well Data: Material Description
			N	N/A	N	SM	GRASS BROWN, SILTY, FINE TO MEDIUM-GRAINED SAND WITH BRICK FRAGMENTS 1" OF BLACK SILTY SAND AT ~.7 FEET	grout Bentonite
5						SP	LIGHT GRAY TO BUFF WHITE MEDIUM TO COARSE QUARTZ SAND DAMP WET	
10			N		N		SAND BECOMES WHITER WITH DEPTH	16/40 SAND .010 inch
15							END OF BORING	
20								
25								



WELLOG.CDR

Project Name: NAS PENSACOLA

Job # P95-137

Location: NAS-BUILDING 3592

Facility: BUILDING 3592

Start Date/Time: 3-13-95/1450

MW Number: MW-3592

Finish Date/Time: 3-13-95/1530

Logged By: A. TWITTY

Top Of Casing Elevation: N/A

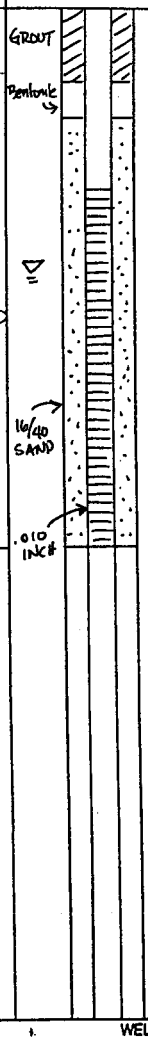
Drilling Contractor: PENSACOLA TESTING

Surface Elevation: N/A

Total Depth: 15 FEET

Driller: JOHN KASIC

Depth Feet	Sampler Type	Sample ID #	Contamination: Odor	Contamination: OVA/HNu ppm	Contamination: Visible Y=Yes N=No	Soil Rock Symbol	Soil and Rock Description/Comment	Monitor Well Data: Material Description
			N	N/A	N	SM	LIGHT BROWN, SILTY, FINE TO MEDIUM-GRAINED SAND TO .2 FEET.	GROUT
							GRAYISH-BROWN SILTY SAND TO 1 FT.	
							YELLOW BROWN, FINE TO MEDIUM-GR. SAND	Bentonite
5			N		N	SP	TAN, MEDIUM TO COARSE-GRAINED QTZ SAND. WET.	
							BUFF WHITE, MEDIUM TO COARSE-GRAINED QTZ SAND	
10								16/40 SAND
								.010 INCH
15							END OF BORING	
20								
25								



WELLOG.CDR

WELL SAMPLE RECORD

PROJECT NO. P95-137.34 DATE 3/16/95 CHECKED BY [illegible]

PROJECT NAS Pensacola SAMPLED BY [illegible] DATE CHECKED 3/16/95

WELL I.D.	DEPTH TO WATER (FT. BMP)	TOTAL WELL DEPTH (FT. BMP)	WELL TYPE AND DIAMETER	WATER VOLUME IN WELL(GAL.)	PURGE RATE (GPM)	DURATION OF PURGING (MIN.)	VOLUME PURGED (GAL.)	PURGE METHOD	METHOD OF SAMPLE COLLECTION	DATE OF SAMPLE COLLECTION	TIME OF SAMPLE COLLECTION	SAMPLE TEMP. (°C)	SAMPLE PH	SAMPLE CONDUCTIVITY UMHOS/CM	COMMENTS (ODOR, COLOR, ETC.)
3630	6.1	12.6	2" pvc	1.11	~0.17	27	~4.5	TB	TB	3/14/95	1235	20.8	6.18	338	none / clear
3592	7.5	14.8	2" pvc	1.24	~0.19	35	~6.5	TB	TB	3/14/95	1350	19.7	6.61	280	none / brown silty
1932	9.75	16.6	2" pvc	1.17	~0.25	16	~4.0	TB	TB	3/14/95	1455	22.0	5.39	217	petro / black brown silty with PVC shavings

PURGE AND COLLECTION METHODS: C = CENTRIFUGAL PUMP P = PERISTALTIC PUMP TB = TEFLON BAILER PB = PVC BAILER X = OTHER (DESCRIBE)

HAZARDOUS WASTE CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

NPWC Environmental Laboratory
Bldg. 3691, Code 920
NAS Pensacola, Fl. 32508-5500

Ph#-(904)452-4726/5587
Autovon-922-4726

Requester: NAS-FMD
Address: B.1932, 3597, 3630
Phone #: 452-3900
Contact: DEAN SPENCER
Job Order #:

Report Required? (Yes) No DER? Yes No
Lab ID Number:
Sample Date: 3-14-95
Received Date:
Sample Site:
Lab Due Date:

Sample ID #	Lab	#1-	#2-	#3-	#4-
Sample Name or Location	----------	B.3630	B.1932	B.3592	RB-1
Sampled by	----------	J. Jones	J. Jones	J. Jones	J. Jones
Composite Date/Time Collected	Begin				
	Frequency				
	End				
Grab Time	----------	1235	1455	1335	1125
Sample Matrix	----------	WATER	WATER	WATER	WATER

Notes:
FGS, Inc.
1320 N. 9th Ave
Pensacola, FL 32503
438-8133

SINGLE PARAMETER by Method Name	METHOD #	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	Billing Units	Containers Required (L/S)	Preservative(s) Used (Liquids)
Gas Chromatography	EPA SW 8000									5	40 ml x 2/4 oz.	HCl to pH<2/4° C
Halo. Vol. Org./GC	EPA SW 8010									4	40 ml x 2/4 oz.	HCl to pH<2/4° C
EDB & DBCP/GC	EPA SW 8011									3	40 ml x 2/4 oz.	HCl to pH<2/4° C
Non-Halo. Vol. Org./GC	EPA SW 8015(MOD)									4	1L (A) x 2/4 oz.	4° C
Arom. Vol. Org./GC	EPA SW 8020									3	40 ml x 2/4 oz.	HCl to pH<2/4° C
Halo./Arom. Vol. Org./GC	EPA 8010/8020									6	40 ml x 2/4 oz.	HCl to pH<2/4° C
Organochlor. Pest./PCB/GC	EPA SW 8080A									8	1Lx2/4 oz.	4° C
Chlor. Herb./GC	EPA SW 8150A									9	40 ml x 2/4 oz.	4° C
VOC/GCMS-Cap.	EPA SW 8260	X	3	X	4	X	3	X	3	9	40 ml x 2/4 oz.	HCl to pH<2/4° C
Semivol. Org./GCMS-Cap.	EPA SW 8270A	X	2	X	3	X	2	X	2	18	1Lx3/4 oz.	4° C
GROUP PARAMETERS by Method Name	**METHOD #**	**X**	**Bottle ID #'s**	**X**	**Bottle ID #'s**	**X**	**Bottle ID #'s**	**X**	**Bottle ID #'s**	**Billing Units**	**Containers Required (L/S)**	**Preservative(s) Used (Liquids)**
HW Characterization (complete)	EPA SW-846									60	See below	See below
Ignitability (Flashpoint)	EPA SW 1010									1	250ml/4 oz.	4° C
Reactivity (Cyanide & Sulfide)	SW 846									4	1L/4 oz.	4° C
Corrosivity (pH)	SW 9040 or 9045									1	250ml/4 oz.	4° C
Toxicity (TCLP) complete	EPA SW-846									55	See below	See below
Non Volatile TCLP Extraction	EPA SW 1311									5	40 mlx3/4 oz.	4° C
ZHE TCLP Extraction	EPA SW 1311									6	1Lx4/32 oz.	HCl to pH<2/4° C
TCLP Acid Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
TCLP B/N Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
TCLP Pesticides	EPA SW 8080A									8	1L/4 oz.	4° C
TCLP Herbicides	EPA SW 8150A									9	1L/4 oz.	4° C
TCLP Volatiles	EPA SW 8260									9	40 mlx3/4 oz.	HCl to pH<2/4° C
TCLP Metals (8)	EPA SW-846									6	500 ml/4 oz.	HNO_3 to pH<2
Priority Pollutants (complete)	EPA SW-846									42	See below	See below
PP Acid Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
PP B/N Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
PP Pesticides	EPA SW 8080A									8	1L/4 oz.	4° C
PP Volatiles	EPA SW 8260									9	40 mlx3/4 oz.	HCl to pH<2/4° C
PP Metals (13)	EPA SW-846									9	500 ml/4 oz.	HNO_3 to pH<2
PP Cyanide & Phenol	EPA 600									4	1Lx2/4 oz.	NaOH/H_2SO_4/None
F001 - F005 Solvents	EPA SW-846									28	1Lx28.40mlx3/16 oz.	HNO_3 to pH<2
RCRA Metals (8)	EPA SW-846									6	500 ml/4 oz.	HNO_3 to pH<2
PCBs in Oil	EPA SW 8080A									3	40 ml	4° C
Other:												

Comments:

Relinquished by: [signature]
Date/Time: 3/15/95 1247

Received by: [signature]
Date/Time: 1247 3/15/95

PWC 9510/8

HAZARDOUS WASTE CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

NPWC Environmental Laboratory
Bldg. 3891, Code 920
NAS Pensacola, FL 32508-8500

Ph#-(904)452-4728/8587
Autovon-922-4728

Requester: NAS-FMD
Address: B-1932, 3592, 3630
Phone #: 452-3900
Contact: DEAN SPENGEL
Job Order #:

Report Required? (Yes) No DER? Yes No
Lab ID Number:
Sample Date: 3-14-95
Received Date:
Sample Site:
Lab Due Date:

Sample ID #	Lab	#1-	#2-	#3-	#4-
Sample Name or Location	----------	TB-1			
Sampled by	----------				
Composite Date/Time Collected	Begin				
	Frequency				
	End				
Grab Time	----------				
Sample Matrix	----------				

Notes:

SINGLE PARAMETER by Method Name	METHOD #	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	Billing Units	Containers Required (L/S)	Preservative(s) Used (Liquids)
Gas Chromatography	EPA SW 8000									5	40 ml x 2/4 oz.	HCl to pH<2/4° C
Halo. Vol. Org./GC	EPA SW 8010									4	40 ml x 2/4 oz.	HCl to pH<2/4° C
EDB & DBCP/GC	EPA SW 8011									3	40 ml x 2/4 oz.	HCl to pH<2/4° C
Non-Halo. Vol. Org./GC	EPA SW 8015(MOD)									4	1L (A) x 2/4 oz.	4° C
Arom. Vol. Org./GC	EPA SW 8020									3	40 ml x 2/4 oz.	HCl to pH<2/4° C
Halo./Arom. Vol. Org./GC	EPA 8010/8020									6	40 ml x 2/4 oz.	HCl to pH<2/4° C
Organochlor. Pest./PCB/GC	EPA SW 8080A									8	1Lx2/4 oz.	4° C
Chlor. Herb./GC	EPA SW 8150A									9	40 ml x 2/4 oz.	4° C
VOC/GCMS-Cap.	EPA SW 8260	X	3							9	40 ml x 2/4 oz.	HCl to pH<2/4° C
Semivol. Org./GCMS-Cap.	EPA SW 8270A									18	1Lx3/4 oz.	4° C

GROUP PARAMETERS by Method Name	METHOD #	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	X	Bottle ID #'s	Billing Units	Containers Required (L/S)	Preservative(s) Used (Liquids)
HW Characterization (complete)	EPA SW-846									80	See below	See below
Ignitability (Flashpoint)	EPA SW 1010									1	250ml/4 oz.	4° C
Reactivity (Cyanide & Sulfide)	SW 846									4	1L/4 oz.	4° C
Corrosivity (pH)	SW 9040 or 9045									1	250ml/4 oz.	4° C
Toxicity (TCLP) complete	EPA SW-846									55	See below	See below
Non Volatile TCLP Extraction	EPA SW 1311									5	40 mlx3/4 oz.	4° C
ZHE TCLP Extraction	EPA SW 1311									6	1Lx4/32 oz.	HCl to pH<2/4° C
TCLP Acid Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
TCLP B/N Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
TCLP Pesticides	EPA SW 8080A									8	1L/4 oz.	4° C
TCLP Herbicides	EPA SW 8150A									9	1L/4 oz.	4° C
TCLP Volatiles	EPA SW 8260									9	40 mlx3/4 oz.	HCl to pH<2/4° C
TCLP Metals (8)	EPA SW-846									6	500 ml/4 oz.	HNO_3 to pH<2
Priority Pollutants (complete)	EPA SW-846									42	See below	See below
PP Acid Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
PP B/N Extractables	EPA SW 8270A									10	1L/4 oz.	4° C
PP Pesticides	EPA SW 8080A									8	1L/4 oz.	4° C
PP Volatiles	EPA SW 8260									9	40 mlx3/4 oz.	HCl to pH<2/4° C
PP Metals (13)	EPA SW-846									9	500 ml/4 oz.	HNO_3 to pH<2
PP Cyanide & Phenol	EPA 600									4	1Lx2/4 oz.	NaOH/H_2SO_4/None
F001 - F005 Solvents	EPA SW-846									28	1Lx2&40mlx3/16 oz.	HNO_3 to pH<2
RCRA Metals (8)	EPA SW-846									6	500 ml/4 oz.	HNO_3 to pH<2
PCBs in Oil	EPA SW 8080A									3	40 ml	4° C
Other:												

Comments:

Relinquished by: [signature]
Date/Time: 3/15/95 1247

Received by: [signature]
Date/Time: 1247 3/15/95

PWC 9510/8

Navy Public Works Center
Environmental Laboratory

Bldg.3297, Code 920
NAS Pensacola, FL 32508-6500
Phone 904-452-3642/4758
Autovon 922-3642

Requester: NPWC Environmental
Address: Bldg. 3691
NAS Pensacola, FL 32508
Phone #: 452-3094
Contact: Paul Semmes

Laboratory Report

TCLP Volatiles

Lab ID Number: 9408279 A
Sample Date: 16 Aug 94
Received Date: 16 Aug 94
Sample Site: Bldg. 1932 - NAS Pensacola
Job Order #: 170 6847

Sample ID#	Lab	1- 5629	2-	3-	4-
Sample Name	Requester	B - 1932 Disposal Dirt			
Collector Name		J. W. Moore			
Date/Time	Comp start				
Collected	Comp stop				
(Military)	Grab	16 Aug 94 @ 1400			
Sample Type	Comp/Grab	Grab			
Analyst		J. W. Moore			
Date of Analysis		19 Aug 94			
Sample Matrix		TCLP Extract			
Dilution		Dilution X 1	Dilution X 1	Dilution X 1	Dilution X 1

PARAMETER: TCLP VOL. Vol. by GCMS (Capillary)	METHOD #	Sample ID# 1- 5629	units	Det. Limit	Sample ID# 2-	units	Det. Limit	Sample ID# 3-	units	Det. Limit	Sample ID# 4-	units	Det. Limit
Benzene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Carbon Tetrachloride	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Chlorobenzene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Chloroform	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
1,4-Dichlorobenzene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
1,2-Dichloroethane	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
1,1-Dichloroethylene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Methyl ethyl ketone (MEK)	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Tetrachloroethylene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Trichloroethylene	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001
Vinyl chloride	EPA 8260	BDL	mg/l	0.001		mg/l	0.001		mg/l	0.001		mg/l	0.001

Surrogate Recoveries Volatile Compounds	Acceptance Limits				
1,2-Dichloroethane-d4	76-114	88			
Toluene-d8	88-110	99			
Bromofluorobenzene	86-115	95			

Comments:

Approved by: Jerry Dees, Laboratory Director

Date/Time: 8/31/94 1700

Navy Public Works Center
Environmental Laboratory

Bldg.3297, Code 920
NAS Pensacola, Fl. 32508-6500
Phone 904-452-3642/4758
Autovon 922-3642

Requester: NPWC Environmental
Address: Bldg. 3691
NAS Pensacola, FL 32508
Phone #: 452-3094
Contact: Paul Semmes

Laboratory Report

TCLP BNA Extractables

Lab ID Number: 9408279 A
Sample Date: 16 Aug 94
Received Date: 16 Aug 94
Sample Site: Bldg. 1932 – NAS Pensacola
Job Order #: 170 6647

Analyst		J. W. Moore													
Date of Analysis		17 Aug 94													
Dilution		Dilution	X	1	Dilution	X	1	Dilution	X	1	Dilution	X	1		
PARAMETER: TCLP BNA		Sample ID#		Det.	Sample ID#		Det.	Sample ID#		Det.	Sample ID#		Det.		
Extr. by GCMS (Capillary)	METHOD #	1- 5629	units	Limit	2-	units	Limit	3-	units	Limit	4-	units	Limit		
m-Cresol (3-Methylphenol)	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
o-Cresol (2-Methylphenol)	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
p-Cresol (4-Methylphenol)	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Cresylic Acid (Total cresols)	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
1,4-Dichlorobenzene	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Hexachlorobenzene	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Hexachlorobutadiene	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Hexachloroethane	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Nitrobenzene	EPA 8270A	BDL	mg/l	0.010		mg/l	0.010		mg/l	0.010		mg/l	0.010		
Pentachlorophenol	EPA 8270A	BDL	mg/l	0.020		mg/l	0.020		mg/l	0.020		mg/l	0.020		
Pyridine	EPA 8270A	BDL	mg/l	0.020		mg/l	0.020		mg/l	0.020		mg/l	0.020		
2,4,5-Trichlorophenol	EPA 8270A	BDL	mg/l	0.020		mg/l	0.020		mg/l	0.020		mg/l	0.020		
2,4,6-Trichlorophenol	EPA 8270A	BDL	mg/l	0.020		mg/l	0.020		mg/l	0.020		mg/l	0.020		

Surrogate Recoveries Extractable Compounds	Acceptance Limits				
2-Fluorophenol	21-110	82			
Phenol-d5	10-110	55			
Nitrobenzene-d5	35-114	109			
2-Fluorobiphenyl	43-116	114			
2,4,6-Tribromophenol	10-123	141*			
Terphenyl-d14	33-141	147*			

Comments:

Approved by: Jerry Deen, Laboratory Director

Date/Time: 8/31/94 1700

Navy Public Works Center
Environmental Laboratory

Bldg.3297, Code 920
NAS Pensacola, Fl. 32508-6500
Phone 904-452-3642/4758
Autovon 922-3642

Laboratory Report
TCLP Metals

Requester: NPWC Environmental
Address: Bldg 3691
NAS Pensacola, FL 32508
Phone #: 452-3094
Contact: Paul Semmes

Lab ID Number: 9408279 B
Sample Date: 16 Aug 94
Received Date: 16 Aug 94
Sample Site: Bldg. 1932 - NAS Pensacola
Job Order #: 170 6647

Sample ID#	Lab	1- **5629**	2-	3-	4-
Sample Name	Requester	B - 1932 Disposal Dirt			
Collector Name		J. W. Moore			
Date/Time Collected (Military)	Comp start				
	Comp stop				
	Grab	16 Aug 94 @ 1400			
Sample Type	Comp/Grab	Grab			
Sample Matrix		TCLP Extract			

Analyst(s):
Jim Taylor - ACP
Brian Nelson - Silver
ATI - Mercury

Date(s) of analysis:
ICP - 30 Aug 94
Ag - 19 Aug 94
Hg -

PARAMETER TCLP Metals:	SW-846 METHOD #	ID# 1- 5629	units	Det. Limit	ID# 2- 0	units	Det. Limit	ID# 3- 0	units	Det. Limit	ID# 4- 0	units	Det. Limit	Preservative(s)
Arsenic(As)	EPA 6010A	X <0.5	mg/l	0.5		mg/l	0.5		mg/l	0.5		mg/l	0.5	None
Barium(Ba)	EPA 6010A	X <1.0	mg/l	1.0		mg/l	1.0		mg/l	1.0		mg/l	1.0	None
Cadmium(Cd)	EPA 6010A	X <0.1	mg/l	0.1		mg/l	0.1		mg/l	0.1		mg/l	0.1	None
Chromium(Cr)	EPA 6010A	X <0.5	mg/l	0.5		mg/l	0.5		mg/l	0.5		mg/l	0.5	None
Lead(Pb)	EPA 6010A	X <0.5	mg/l	0.5		mg/l	0.5		mg/l	0.5		mg/l	0.5	None
Mercury(Hg)	EPA 7470	X <0.02	mg/l	0.02		mg/l	0.02		mg/l	0.02		mg/l	0.02	None
Selenium(Se)	EPA 6010A	X <0.1	mg/l	0.1		mg/l	0.1		mg/l	0.1		mg/l	0.1	None
Silver(Ag)	EPA 7761	X <0.0005	mg/l	0.5		mg/l	0.5		mg/l	0.5		mg/l	0.5	None

Comments: mg/l=milligrams per liter.

TCLP limits are: Arsenic<5, Barium<100, Cadmium<1, Chromium<5, Lead<5, Mercury<0.2, Selenium<1, Silver<5.

Approved by: J.W. Moore, Chemist
Jerry Dees, Laboratory Director
(for Jerry Dees)

Date/Time: 01-Sep-94 13:09

End of Report

PWC 5090/14

SITE ASSESSMENT REPORT SUMMARY SHEET

Facility Name: Building 1932, UST Site 000025, Navy Exchange "Touch N Go" Service Station, Naval Air Station, Pensacola

Reimbursement Site: ☐

Location: Pensacola, Florida

State Contract Site: ☐

EDI #: _____ FAC I.D.# unregulated Other: Non-Prog. ☑

Date Reviewed: _____ Local Government: _____

(1) Source of Spill: USTs and Former Dispenser Island

Date of Spill: Unknown but prior to 1994 when reported

(2) Type of Product:

Gasoline Group	Gallons Lost	Kerosene Group	Gallons Lost
☐ Leaded		☐ Kerosene	
☐ Unleaded Regular		☑ Diesel	Unknown
☐ Unleaded Premium		☐ JP-4 Jet Fuel	
☐ Gasohol		☐ Jet A Fuel	
☐ Undetermined		☐ Unknown	

(3) Description of IRA: Bailing

☑ Free product Removal: 0.2 (gals)
☐ Soil Removal: _____ (cubic yds)
☐ Soil Incineration: _____ (cubic yds)

(4) Free Product still present (yes/no) Yes Maximum apparent product thickness: 1.13 (feet)

(5) Maximum Groundwater contamination levels (ppb):

Total VOA:	943	benzene:	19	EDB:	<0.05
lead:	<10	MTBE:	13	other:	39,000 TRPH & PAHs

(6) Brief lithologic description: White silty "beach" sand. Significant lithologic variation at approximately 16 FBGS, where an approximately 1 foot thick peat layer is encountered that acts as an aquitard.

(7) Areal and vertical extent of soils contamination defined (yes/no) Yes

Highest current soil concentration (OVA: 1,050 ppm) or (EPA method 5030/8020: 1,520 ppb)

(8) Lower aquifer contaminated? (yes/no) No

Depth of vertical contamination: Less than 35 feet (MW-24D) and probably doesn't extend beneath the peat layer at 16 feet.

(9) Date of last complete round of groundwater sampling: 5/06/01 Date of last soil sampling: 8/08/00

(10) QAPP approved? (yes/no) Date: _____

(11) Direction (e.g. NNW) of surficial groundwater flow: S-SE Figure 1-2 on page _____

(12) Average depth to groundwater: 11 (ft)

(13) Observed range of seasonal groundwater fluctuations: Approx. 2 ft (ft) (Based on water level data collected initially vs. during sampling)

(14) Estimated rate of groundwater flow: 2.89 seepage velocity (ft/day)

(15) Hydraulic gradient across site: 0.00465 (ft/ft)

(16) Aquifer characteristics:

	Values	Units	Method
Hydraulic conductivity	185 to 186	ft/day	Slug Tests
Storage coefficient	-	ft/ft	-
Aquifer thickness	500	ft	Literature
Effective soil porosity	30	%	Literature
Transmissivity	16,740	ft^2/day	Slug Tests

(17) Other remarks: None

APPENDIX C

FIELD DATA FORMS

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: _____ BORING No.: _____

PROJECT NUMBER: _____ DATE: _____

DRILLING COMPANY: _____ GEOLOGIST: _____

DRILLING RIG: _____ DRILLER: _____

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ☐

Remarks: _____

Converted to Well: Yes _____ No _____ Well I.D. #: _____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: 0401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: NASP1932SB-3.12-14
Sample Location: Bldg 1932
Sampled By:
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: 1620 Method: DPT Monitor Reading (ppm): 800	12-14'		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	8/8/00	
TRPH, PAH, SVOC	8oz x 1	↓	
Pb, Cd, Cr, As	8oz x 1		
Grain size	Baggie		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: 0401

[] Surface Soil
[x] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: NASP1932SB-4
Sample Location: Bldg 1932 10-11.5
Sampled By: DH/GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: 1335 Method: DPT Monitor Reading (ppm):	10-11.5'	See corresponding Bore log	

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 4	8/8/00	
TRPH	8 OZ x 1		
PAH SVOC	8 oz x 1		
Pb, As, Cd, Cr	4 oz x 1		
TOC			

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: 0401

Sample ID No.: NAS1932SB-5
Sample Location: Bldg 1932
Sampled By: OH/BD
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: Method: DPT Monitor Reading (ppm): 3.4	10-12'		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 3	8/8/00	
TRPH, PAH, S-VOC	8 oz x 1		
Pb, As, Ca, Chromium	8 oz x 1		
Grain Size	Gallon Ziplock		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: NASP1932DUP-1

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.:

[] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: NASP193258-6
Sample Location: Bldg 1932
Sampled By: DH, GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: 1415 Method: DPT Monitor Reading (ppm): 3	10-12'		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 4	8/8/00	
TRPH, PAH, SVOC	8 oz x 1	↓	
Pb, As, Cd, Chromium	8 oz x 1		
TOC	4 oz x 1		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.:

[] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: NAS91932SB-7,10-14'
Sample Location: Bldg 1932
Sampled By: DH GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: 1725 Method: Monitor Reading (ppm):	10-14'		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 4		
TRPH, PAH, SVOC	8 oz x 1		
TCLP leachability	8 oz x 1		
RCRA Metals, Pb, As, Ca, Cr	" "		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: 6401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: NASP1932SB-11, 12-14
Sample Location: Bldg 1932
Sampled By: DH GD
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/8/00 Time: 1645 Method: DPT Monitor Reading (ppm): 1050	12-14		

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	Encore x 4	✓	
SVOC, PAH, TRPH, % Solid	8 oz W/M x 1	✓	
Pb, Arsenic, Cadmium, Chrom.	8 oz W/M x 1	✓	
TOC	4 oz	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Bldg. 1932
PROJECT NUMBER: ~~CTO 142 N0010~~ CTO 040 N0541 A/B
DRILLING COMPANY: ATE
DRILLING RIG: Geoprobe

BORING No.: SB-1
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Drilller BZ**	
									3" Asphalt					
		NA	NA		Loose to very loose	Buff	to light brown silty sand fine-med grained.	SC	Hand Auger 0 to 4' BGS Strong petroleum odor Moist	330	350	330	280	Corrected 80 ppm 50
	5		48"/48"				Light brown silty sand	SC	2" thick Black stain of Product					
			36"/48"				Light to dark gray Nothing of product Same as above	SC	damp	350	5			345
	10													445 ppm
10-14 Analytical Sample								SC		480	35	100		Adj. Well
			42"/48"	Product			Dark gray to black stained Free Product Draining from samples			500	110			390 ppm 13.19 DTP 14.17 DTW
Free Product Waste Oil	15													
								SC						
							Terminated boring at 16' BGS							
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Adjacent to Forma Waste oil UST
Also RCRA metals, Cd, As, Pb, Chromium

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Bldg 1932
PROJECT NUMBER: ~~CTO 112 N0421~~ CTO 0140 N0521
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe
BORING No.: SB-2
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Drilller BZ**
									Grass Surface				
		NA	NA		loose to very loose	Buff to very light brown	silty sand	SC	Hand Auge to 4' BGS	0	0	0	0
										0	0	0	0
	5												
			26/24						No odor				
							Light gray staining	SC	Moist to Damp	4	0	0	
	10												
							Dark gray staining	SC	Strong Petrol Odor	330	0		
				Product				SC		255	2		
	15												
							Product dripping from sampler.						
							Terminated boring at 16' BGS.						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Bldg 1932
PROJECT NUMBER: ~~CTO 011-N0401~~ CTO 0140 N0547
DRILLING COMPANY: ATF
DRILLING RIG: Geoprobe
BORING No.: SB-3
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No. and Type or RQD	Depth (FL) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/FL) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	
									Asphalt					
		NA	NA		loose to very loose		Reddish Brown to Dark Brown silty sand	SC	Hand Auger to 4' BGS	350	200			150
										900	340			560
	5						buff to light brown to white sand silty	SC	med to fine grained.	600	15			585
	10								very strong petroleum odor					
12-14' * Analytical Sample								SC		900	130			770
										900	43			857
	15						white sand silty	SC	saturated					
									Dark Brown stain from piece of wood.					
					Terminated boring at 16' BGS									
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Also grain size taken here.

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-4
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									~3" Asphalt					
		N/A	N/A		Loose to very loose	Dark reddish brown	silty clayey sand	SC	Hand auger to 4' BGS	0/0	0	0	0	0
						Buff to light brown	silty sand		fine to med grained	0/0	0	0	0	0
	5		42"/48"			Buff white to yellowish brown	mottled		No Odor moist					
								SC		0/0	0	0	0	0
Analytical Sample *	10		36"/48"			Color change to dark brown	silty sand. water is brown running off sampler		(same color as SB-3 at contact with wood) saturated tannic acid?	3/3				0
TOC sample *	15		36"/48"			Dark brown	silty clayey sand	SC to CL	to silty clay to clayey silt					
						Peat layer								
						Terminated								
						Boring at 16' BGS								
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Water level significantly higher ~2-3' than at SB-3

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Adjacent boring on 08-08-00 for analytical samples. 10-11 feet BGS and TOC from 15-16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-5
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	
									2-3" Asphalt					
		NA	NA			Dark	Reddish Brown silty sand	SC	Hand Auger to 4' BGS	0	0	0	0	
					loose to very loose	light	brown to yellowish brown silty sand			0	0	0	0	
	5													
			42"/46"											
							Same as above	SC	moist; Funny odor? like a wet rag?	60/0				60
	10													
Analytical Sample							Same as above		damp					
							Slight gray staining	SC	strong petrol. odor	270/5				265
										360/19				341
	15							SC						
							Dark grayish brown to black staining by Fuel Product Dripping							
							Terminated boring at 16' BGS							
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Duplicate taken here. Also break size

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0527
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-6
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
		NA	NA		Loose to very loose	Buff to light brown	silty sand	SC	Hand Auger to 4' BGS	0	0	0	0
	5								fine to med. grained.	0	0	0	0
			48"/48"			Buff to yellowish brown	silty sand	SC		0	0	0	0
	10		42"/48"										
Analytical sample 12'-14' 10-12'							Same as above	SC	1/0		0	0	1
			48"/48"				dark brown silty sand	SC	3/0 saturated		0	0	3
TOC 15-16'	15				Dark Brown		Peat silty clay to clayey silt	CL	Much organic matter, Peat? 1/4-1/2" pieces charcoal - from burnt limbs?				
							Terminated Boring at 16' BGS						
	20												

Converted

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Analytical samples collected 08-08-00 from adjacent boring

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1932
PROJECT NUMBER: CTO 1400 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-7
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									3" Asphalt				
		NA			loose	Reddish brown silty sand		SC	Hand Auger				
			NA		to	Buff to light brown silty sand			to 4' BGS	1600	/	1300	300
					very	Light gray stained							
					loose		Silty sand		Petroleum odor	1550	/	1100	450
	5												
			12"/46"			Light Gray to light brown mottled			Strong Petroleum				
							Silty sand	SL	odor	1050	/	0	1050
	10		12"/48"										
									damp				
							Same as above	SL		1350	/	320	1030
									very strong petroleum odor	1200	/	280	720
	15					← Color change to dark brown		SL					
						← Very Dark Brown silty clay		CL	Saturated				
				← Terminated boring at 16 BGS					To clayey silt (Same as SB 6) Like Peat Much organic.				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Adjacent to former dispenser island

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-8
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		NA	NR		Loose to very loose		Light Brown silty sand	SC	Hand Auger 4' BGS				
	5		11										
			42/48"				Dark Gray to Black staining & Mottling	SC	Strong Odor of Petroleum damp				
	10		42"/48"										
								SC	wet				
			48"/48"										
	15						Black staining from Free Product.						
							Very Dark Brown "Peat" layer Laminated boring at 16' BGS.	CP	Saturated silty clay to clayey silt.				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: *Note Porta-FID Gas-Tech Gone (Fitting) hasn't arrived yet from Tallahassee

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-9
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
						Light Brown	silty sand	SC	Hand Augur to 4' BGS				
					Loose	Light Gray	silt sand						
		NR	NR		to	Greenish gray	silty sand		Strong petrol odor				
					very								
	5				loose								
						buff to white to light brown	silty sand						
						to light gray		SC	No Portable FID Gas. Will collect sample				
	10												
						very strong	petroleum odor		12-16 for visual determination of free product.				
								SC					
	15					Black Free Product Stained							
					Very Dark Brown Peat layer			CL					
						silty clay to clayey silt.							
					Terminated boring at 16' BGS								
	20												

Free Product delineation well point, gpo

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1932
PROJECT NUMBER: CTO 140 N0541
DRILLING COMPANY: RTI
DRILLING RIG: Geoprobe

BORING No.: SB-10
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		NA	NA		loose to very loose	Light Brown	silty sand	SC	Hand Auger to 4' BGS No Odor				
	5												
								SL	* No Portable FID Gas will collect 12-16 & 16-20 for visual				
	10												
			30" / 48"			buff to white	silty sand		No Visual Free Product				
	15				Color change due to Dark Brown Staining of Sand from Port Leak?			SC	Strong Petrol Odor & Wet Saturated.				
			48" / 48"	Peat				SC/SL					
	20					Dark Brown to Yellowish Brown	silty sand	SC	fine to med. Grained.				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-11
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									~3" Asphalt					Adj. Boring 8-8-00 Corrected
							Reddish Brown silty sand							
					Loose to very Loose		Light brown to Light gray silty sand	SL	Mild Petroleum odor	1100	700			400
		NA	NA				Asphalt layer.		* No Probe FID Geo 8-600	1400	800			600
	5						Light brown to tuffish white silty sand		very strong petroleum odor.					
							mottled dark grayish black to light gray	SL		1000	100			900
	10													
							light brown to light gray silty sand	SL	Very Strong Petroleum Odor	1200	150			1050
12-15' * Analytical Sample							Diesel?							
	15						Possible Free Product Stage —		Free Product running into sampler.	1600	1100			500
							Very dark brown silty clay to clayey silt		Light color. peat at bottom					
							Terminated boring at 16' BLS							
	20													
							Downgradient of Adjacent to Dispenser Island & Former Tank Pit.							

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Will include this location for analytical sample & TCLP. Also RCRA metals, Cd, As, Pb, Chromium

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Screened during adjacent boring on 08-08-00 for analytical.

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATF
DRILLING RIG: Geoprobe

BORING No.: MW-2/SB-4 (adj. to MW-2)
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									~3" Asphalt				
						Dark reddish brown	silty clayey sand	SC	Hand auger to 4' BGS				
		NA	NA		Loose to very loose	Buff to light brown	silty sand		fine to med grained	0	0	0	0
	5									0	0	0	0
			42"/48"			Buff white to yellowish brown	mottled		No Odor moist				
								SC		0	0	0	0
Analytical Sample *	10		36"/48"			Color change to dark brown	silty sand		(same color as SB-3 at contact with wood)	3	3		0
							water is brown running off sampler		saturated Tannic Acid?				
TOC sample *	15		36"/48"			Dark brown	silty clayey sand	SC to CL	to silty clay to clayey silt				
						Peat layer							
						Terminated Boring at 16' BGS							
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Water level significantly higher ~2-3' than at SB-3

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Adjacent boring on 08-08-00 for analytical samples 10-11 feet BGS and TOC from 15-16' BGS

Tetra Tech NUS, Inc.

WELL No.: MW-2

Bldg 1932

MONITORING WELL SHEET

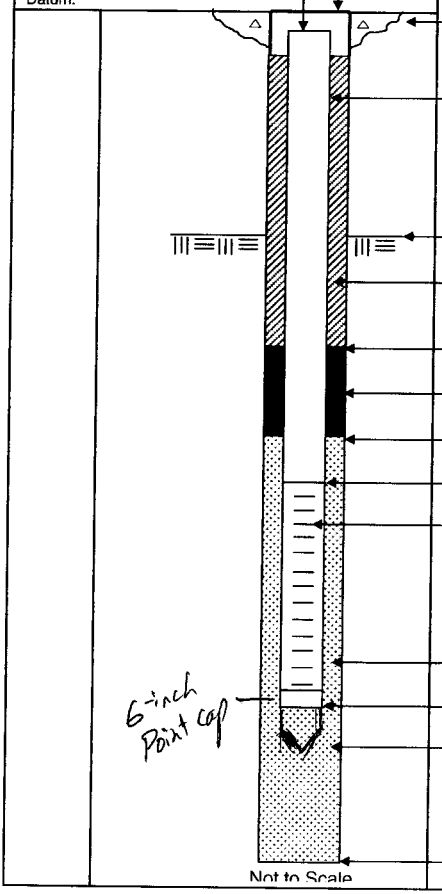
Adj. to SB-4 boring (DPT)

PROJECT: ~~N0547~~	DRILLING Co.: AECS	BORING No.: MW-2	
PROJECT No.: N0547	DRILLER: David Cobb	DATE COMPLETED: 10-04-00	
SITE: Touch'n Go Serv. Sta. NAS	DRILLING METHOD: HSA	NORTHING:	
GEOLOGIST: Gary J. Davis	DEV. METHOD: Pump & Surge	EASTING:	

See Previous Boring Log

Ground Elevation =

Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel manhole
Type of Surface Seal:	Concrete Pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4-inch
Elevation / Depth Top of Rock:	NA /
Type of Backfill:	grout / concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Bentonite-Pure Gold medium chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Augers

BORING No.: MW-3
DATE: 10-04-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass surface				
									Hand auger				
		NA			loose		Yellowish brown	SC	to 5' BGS	0	0	0	0
							silty sand		then DPT				
					to				for screening				
					very		Color change to						
	5				loose		"white" beach sand		Auger for well				
							silty sand						
			36" / 48"						damp				
								SC	unusual to see this color	0	0	0	0
							sharp color change to						
							dark brown silty sand		Possible fill?				
									this high in section				
	10						white silty sand						
									wet				
							Dark brown staining of water from peat and humus	SC	saturated	0	0	0	0
									Trace Angs				
							white beach sand						
	15							SC					
					Terminated boring at 16' BGS to set well								

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-3

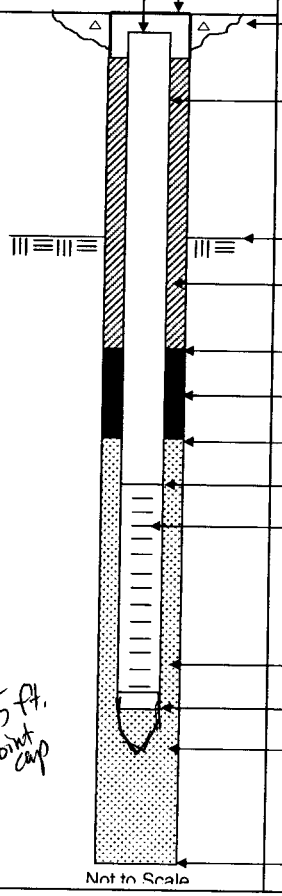
Tetra Tech NUS, Inc.

WELL No.: MW-3

MONITORING WELL SHEET

PROJECT:	NASP-Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW3
PROJECT No.:	N0547 CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-04-00
SITE:	NASP	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =
Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	6-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete pad 2'X2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4 -inch
Elevation / Depth Top of Rock:	NA
Type of Backfill:	Grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot by 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16

Tetra Tech NUS, Inc.

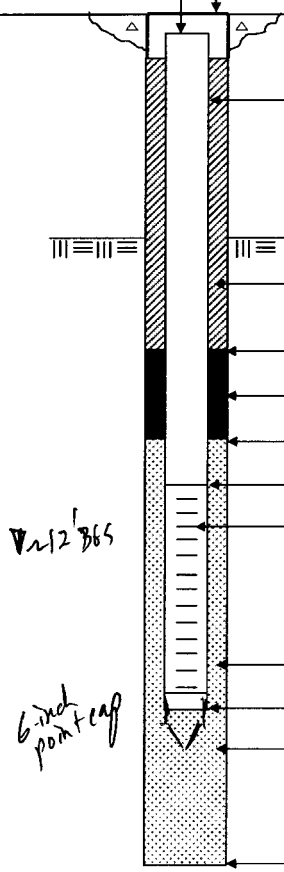
WELL No.: MW-4

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-4
PROJECT No.:	N0547 CTO40	DRILLER:	David Cobb	DATE COMPLETED:	10-05-00
SITE:	NASP	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete Pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8¼"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	12.0
Type of Seal:	Pure Gold Bentonite mat-chips
Elevation / Depth of Top of Filter Pack:	14.0
Elevation / Depth of Top of Screen:	16.0
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10'
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil (Silica sand) 20/40
Elevation / Depth of Bottom of Screen:	16.0
Elevation / Depth of Bottom of Filter Pack:	16.5
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	16.5

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: Bldg 1932 - NASP
PROJECT NUMBER: N0547CT0140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-4
DATE: 10-05-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									grass surface				
					loose	Brown	silty sand						
		NA			to	to							
					very	yellowish brown	silty sand	SC		0	0	0	0
					loose								
	5												
			11/30										
			46				gradational color change to white "beach sand"	SC	moist	0	0	0	0
	10		46"										
			46"				white "beach sand"		damp to wet at bottom				
							silty sand	SC	fine grained to med.	0	0	0	0
			36"						saturated	0	0	0	0
	15		46"					SC					
							Color change to Dark Brown due to stained water from peat layer.						
					TD		Still silty sand		← should be				
							Terminated boring at 16.5 BGS to set well		right on top of peat layer (very dark brown H2O from tannic acid)				
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Adj. to PWC Steam Plant backup - Diesel Fuel tank. Appears to have been converted to a AST w/ containment.

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-4

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547CT0140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-5
DATE: 10-05-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass & Crushed Shell				
		NA				lt. brown	silty sand -	SC	Road bed Fill				
					loose	yellowish brown			Hand Auger to	0	0	0	0
					to		silty sand		4' BGS				
					very								
	5				loose			SC					
			70"/							0	0	0	0
			48"			gradational color change			fine to med grained				
						to	white "beach" sand	SC	damp	0	0	0	0
	10		36"/							0	0	0	0
			48"										
									wet at 12' BGS	0	0	0	0
							same						
								SC					
	15												
							Terminated boring						
							at 16' BGS						
							to set well						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-5

Tetra Tech NUS, Inc.

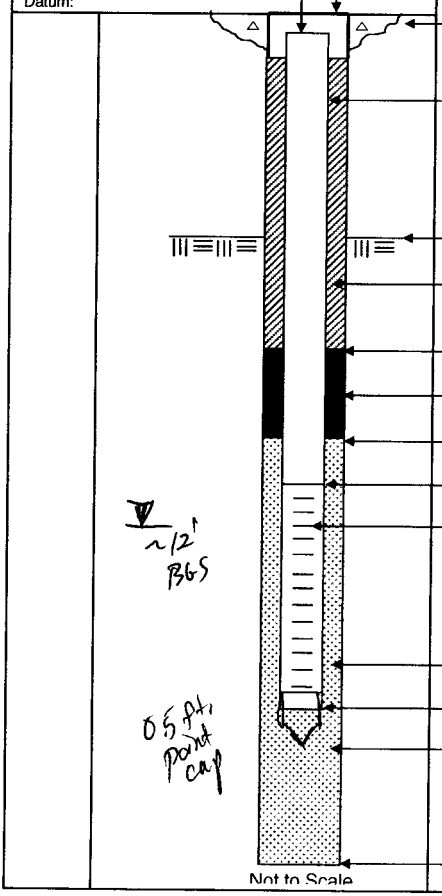
WELL No.: MW-5

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-5
PROJECT No.:	N0547 CTO 140	DRILLER:	David Cobb	DATE COMPLETED:	10-05-00
SITE:	Touch N'Go Serv. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	Concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N.A.
Type of Backfill:	grout/Concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med Chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16' BGS
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg. 1932
PROJECT NUMBER: N0547CTO 1410
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW6
DATE: 10-05-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grassy Surface				
						Lt.	Brown silty sand	SC	hand auger				
					loose				to 4' BGS	0	0	0	0
		NA			to								
					very			SC	fine to med. grained				
	5				loose								
			42"				Gradational color change		moist				
							to white "beach" sand						
			48"					SC					
	10								wet				
								SC					
							Same as above		Saturated				
									No odor				
	15												
							Terminated boring						
							at 15' BGS to						
							set well.						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-6

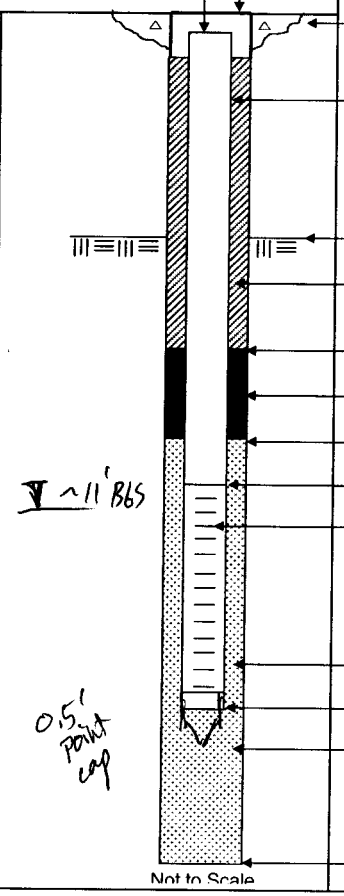
Tetra Tech NUS, Inc.

WELL No.: MW-6

MONITORING WELL SHEET

PROJECT:		DRILLING Co.:		BORING No.:	MW-6
PROJECT No.:		DRILLER:		DATE COMPLETED:	10-05-00
SITE:		DRILLING METHOD:		NORTHING:	
GEOLOGIST:		DEV. METHOD:		EASTING:	

Ground Elevation =
Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	8 1/4"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite med. chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 x 10 ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-7
DATE: 10-05-00
GEOLOGIST: Gary T. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
					Loose	Lt. Brown	silty sand	SC	Hand Auger to				
		NA							4' BGS	0	0	0	0
					to	Yellowish brown	silty sand						
					very			SC					
	5				loose								
			36"			Lt. Brown	silty sand	SC	damp	0	0	0	0
			48"						At 7-8'				
						Dark Gray to Black			← Strong Odor	70			
						mottling			Hydrocarbon?				
	10		36"			Lt. Brown	silty sand	SC	wet				
			48"							170		0	0
									saturated				
								SC					
	15												
						Terminated boring							
						at 16' BGS to get		well					
	20												

d/w Filter No correction

0 with Filter No Correction

* When rock coring, enter rock brokeness.

**Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Near drip for distillate AST containment. Cannot tell if there is an underground pipe or not.

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-7

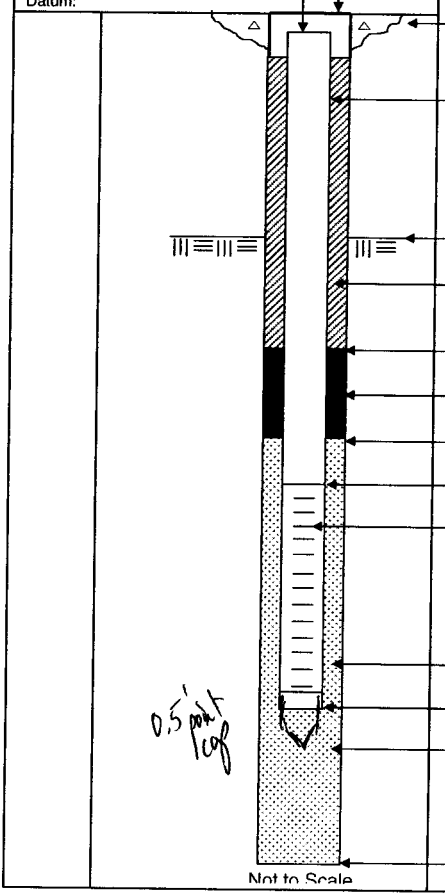
Tetra Tech NUS, Inc.

WELL No.: MW-7

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-7
PROJECT No.:	N0347CT0140	DRILLER:	David Cobb	DATE COMPLETED:	10-05-00
SITE:	Touch N' Go Station	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =
Datum:



Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel manhole
Type of Surface Seal:	concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	12.0
Type of Seal:	Pure Gold Bentonite Medium chips
Elevation / Depth of Top of Filter Pack:	13.0
Elevation / Depth of Top of Screen:	15.0
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	15
Elevation / Depth of Bottom of Filter Pack:	16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	16

4' 9" cut off 20.5

well material moved up ~ 1/2-1ft during installation

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-8
DATE: 10-06-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
						Lt	Brown silty sand	SC					
		NR			loose					0	0	0	0
					to				fine-med grained				
					very								
	5				loose		Color Change to						
			30"				White "beach" sand			0	0	0	0
			48"				fine-med. grained	SC	moist				
									Distinct but faint hydrocarbon	16	0	0	0
									odor begins				
	10		11	Prod?			Same as		damp				
			36/48"				above		Very strong				
									Diesel odor	150			
									Saturated				
	15												
							Terminated						
							boring at 16' BGS						
							to set well						
	20												

No correction for methane

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Nearby containment drain for new ASTs that supply the Touch 'N' Go dispensers.

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-8

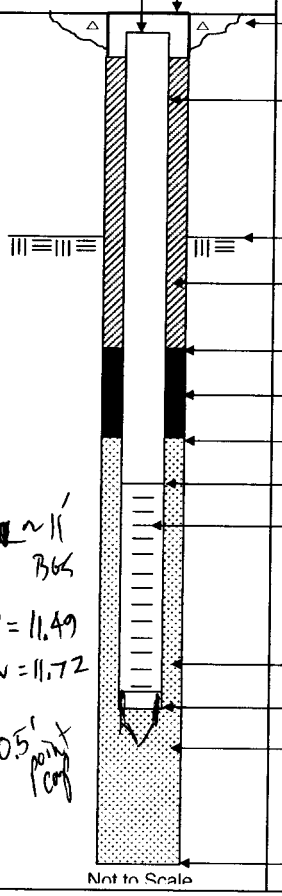
Tetra Tech NUS, Inc.

WELL No.: MW-8

MONITORING WELL SHEET

PROJECT:	NASP-Bldg. 1932	DRILLING Co.:	AECS	BORING No.:	MW-8
PROJECT No.:	N0547 CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-06-00
SITE:	Tonch N' Go · Gove. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =
Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete Pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4 inch
Elevation / Depth Top of Rock:	NA.
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Medium Chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft
I.D. of Screen:	2 inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547 CT0140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe W/ Auger

BORING No.: MW-9
DATE: 10-06-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
					loose	Lt.	Brown silty sand	SC					
		NA			to					0	0	0	0
					very	Yellowish	brown silty sand						
					loose					0	0	0	0
	5												
			36"/48"						moist				
					3	Gradational color change		SC					
						to white "beach" sand			very slight hydrocarbon odor	3	0	0	0
							fine - med.						
	10		36"/48"							100	0	0	0
							Same as above	SC	slight diesel fuel odor				
	15												
							Terminated boring at 16' BGS to set well						
	20												

No correction
0 Methane

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-9

Tetra Tech NUS, Inc.

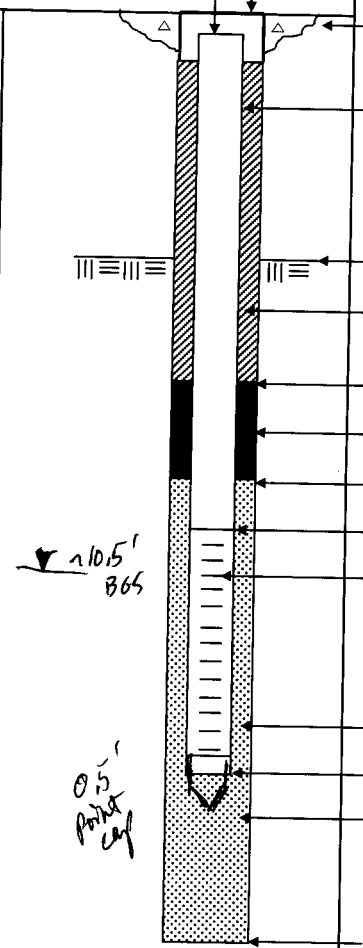
WELL No.: MW-9

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-9
PROJECT No.:	N0547 CT0140	DRILLER:	David Cobb	DATE COMPLETED:	10-06-00
SITE:	Touch'N'Go - Sec. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel manhole
Type of Surface Seal:	Concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	NA /
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	1 1.5
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	1 3.5
Elevation / Depth of Top of Screen:	1 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.010 x 10ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	1 15.5
Elevation / Depth of Bottom of Filter Pack:	1 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	1 16 BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg. 1932
PROJECT NUMBER: N0547 CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-10
DATE: 10-07-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
						Lt.	Brown silty sand	SC	hand auger				
					loose				to 4' BGS	0	0	0	0
		NA			to	Reddish	Brown silty sand						
					very			SC		0	0	0	0
	5				loose	Lt.	Brown silty sand						
			26"						moist				
			48"				Gradational Color change to	SC		0	0	0	0
							white "beach" sand						
							fine-med grained		damp				
	10		42"										
			48"	~					wet	0	0	0	0
							Same as above	SC	Saturated				
									No Odor to				
									12' BGS				
	15												
									Slight odor				
									to water of				
							Terminated boring		diesel fuel.				
							at 16' BGS to		When aerated.				
							set well						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-10

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932 - Touch N'Go NEX Svc Sta.
PROJECT NUMBER: N0547 CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-11
DATE: 10-07-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Underbrush				
						Lt.	Brown silty sand						
		NA			loose			SC		0	0	0	0
						Yell	owish brown silty sand						
					very					0	0	0	0
	5				loose			SC					
			36"/48"						damp	0	0	0	0
							Gradational color change to white "beach" sand	SC		0	0	0	0
									moist				
	10		36"/48"						No Odor				
							Same as above	SC	wet	0	0	0	0
									distinct sewerage or methane odor to water ~~Situated~~ at 15'				
	15								Strong diesel odor to water when augered to 16' BGS	165	0	0	0
							Terminated boring at 16' BGS to set well						
	20												

No Methane Correction = 0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Could be slight plume diving due to increased infiltration of open areas in this direction to the south

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-11

Tetra Tech NUS, Inc.

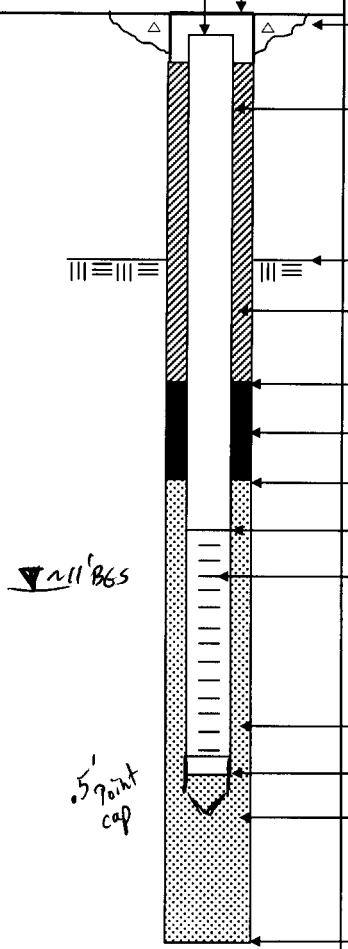
WELL No.: MW-11

MONITORING WELL SHEET

PROJECT:	NASP - Bldg. 1932	DRILLING Co.:	AECS	BORING No.:	MW-11
PROJECT No.:	N0547 CTO 140	DRILLER:	David Cobb	DATE COMPLETED:	10-07-00
SITE:	Tonch'N'Go Snc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete Pad 2'x 2'
I.D. of Riser:	2-inch
Type of Riser:	sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A
Type of Backfill:	grout / concrete
Elevation / Depth of Seal:	1 1.5
Type of Seal:	Pure Gold Bentonite Med. Chips
Elevation / Depth of Top of Filter Pack:	1 3.5
Elevation / Depth of Top of Screen:	1 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	1 15.5
Elevation / Depth of Bottom of Filter Pack:	1 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	1 16

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932
PROJECT NUMBER: N0547CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-12
DATE: 10-07-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Cleared Surface				
						Lt. Brown	Silty sand		under powerline to Water Tower				
					loose			SC		0	0	0	0
		NA			to	Yellowish Brown	Silty sand		fine-med. grained				
					very loose					0	0	0	0
	5					color change to							
			42"/48"				White "beach" sand		moist				
							fine - med grained						
										0	0	0	0
									wet				
	10						Same as above			0	0	0	0
									Saturated				
									No Odor	0	0	0	0
	15								No Odor				
					Terminated boring at 16' BGS to set well.								
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-12

Tetra Tech NUS, Inc.

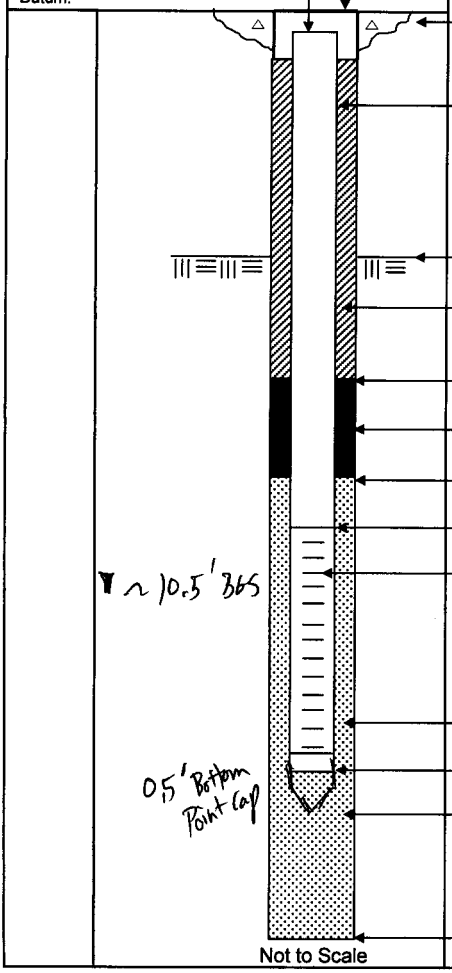
WELL No.: MW-12

MONITORING WELL SHEET

PROJECT:	NASP- Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-12
PROJECT No.:	N0547CT01A0	DRILLER:	David Cobb	DATE COMPLETED:	10-07-00
SITE:	Touch'N'Go Svc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump + Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2x2'
I.D. of Riser:	2-inch
Type of Riser:	sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N.A.
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	11.0
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	13.0
Elevation / Depth of Top of Screen:	15.0
Type of Screen:	sch 40 PVC
Slot Size x Length:	0.01 slot x 10'
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	115.0
Elevation / Depth of Bottom of Filter Pack:	116
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	116

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg. 1932
PROJECT NUMBER: N0547 CTO140
DRILLING COMPANY: AFCS
DRILLING RIG: Geoprobe W/ Auger

BORING No.: MW-13
DATE: 10-08-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Surface Peat & Humus				
						Lt.	Brown silty sand		Hand Auger to				
					loose to very loose			SC	4' BGS	0	0	0	0
		NA					Yellowish brown silty sand						
										0	0	0	0
	5		11				gradational color change	SC					
			A2/				to white "beach" sand						
			A5"						damp				
							fine-med. grained	SC	moist	0	0	0	0
	10		12"						wet	0	0	0	0
			A2/										
			4"				Same as above		Saturated				
								SC		0	0	0	0
									No Odor				
	15						Color change to dark						
							brown from water stained		w/ tannic acid from peat layer				
							Terminated boring						
							at 16' BGS						
							to set well						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-13

Tetra Tech NUS, Inc.

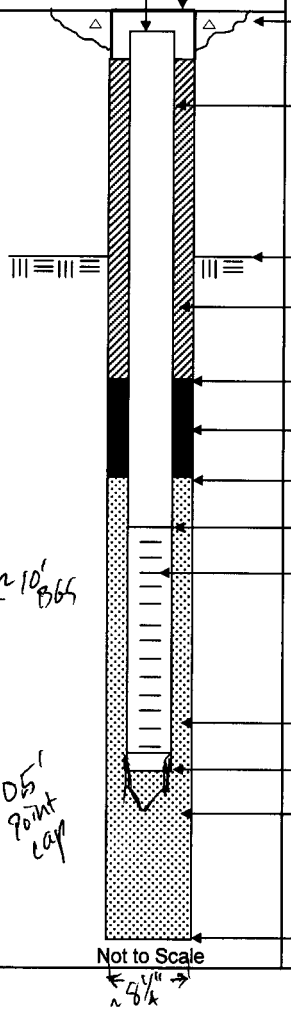
WELL No.: MW-13

MONITORING WELL SHEET

PROJECT:	NASP - Bldg. 1932	DRILLING Co.:	AECS	BORING No.:	MW-13
PROJECT No.:	N0547 CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-08-00
SITE:	Touch 'N Go Service Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete pad 2' x 2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A /
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. Chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft
I.D. of Screen:	2 inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16'
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Bldg 1932
PROJECT NUMBER: ~~CTO 111~~ - N0A01 CTO 0140 N0547
DRILLING COMPANY: ATF
DRILLING RIG: Geoprobe
BORING No.: SB-3 (Adj. to MW-14)
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									Asphalt					
		NA	NA		loose to very loose		Reddish Brown to Dark Brown silty sand	SC	Hand Auger to 4' BGS	350	200			150
										900	340			560
	5						Buff to light brown to white sand silty	SC	med to fine grained.	600	15			585
	10			FP?				SC	very strong petroleum odor	900	130			770
										900	43			857
	15						white sand silty	SC	saturated					
					Terminated boring at 16' BGS				Dark Brown stain from piece of wood. Peat layer					
	20													

12-14' * Analytical Sample

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Also grain size taken here.

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

MONITORING WELL SHEET

WELL No.: MW-14

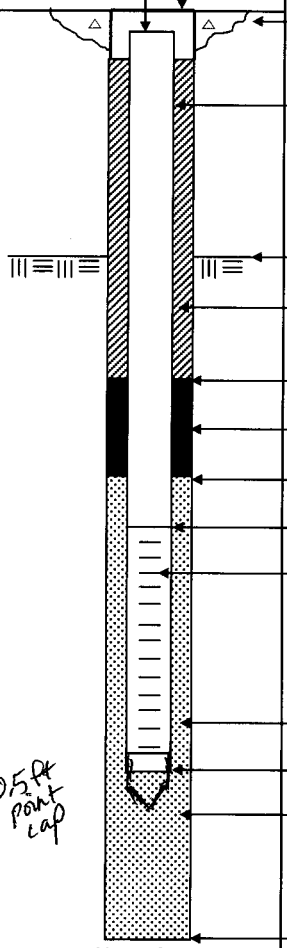
Adj. to previous boring SB-3

See previous boring log

PROJECT: NASP - Bldg. 1932	DRILLING Co.: AECS	BORING No.: MW-14	
PROJECT No.: N0547CT0140	DRILLER: David Cobb	DATE COMPLETED: 10-08-00	
SITE: Touch'N'Go Serv. Sta.	DRILLING METHOD: HSA	NORTHING:	
GEOLOGIST: Gary J. Davis	DEV. METHOD: Pump + Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8-inch

Type of Surface Casing: Steel Manhole

Type of Surface Seal: Concrete Pad 2'x 2'

I.D. of Riser: 2-inch

Type of Riser: Sch 40 PVC

Borehole Diameter: ~8 1/4"

Elevation / Depth Top of Rock: N/A

Type of Backfill: grout/concrete

Elevation / Depth of Seal: 1 1.5

Type of Seal: Pure Gold Bentonite Med. Chips

Elevation / Depth of Top of Filter Pack: 1 3.5

Elevation / Depth of Top of Screen: 1 5.5

Type of Screen: Sch 40 PVC

Slot Size x Length: 0.01 slot x 10 feet

I.D. of Screen: 2-inch

Type of Filter Pack: Filter Sil 20/40

Elevation / Depth of Bottom of Screen: 1 15.5

Elevation / Depth of Bottom of Filter Pack: 1 16'

Type of Backfill Below Well: Filter Sil

Elevation / Total Depth of Borehole: 1 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg. 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-11 (Adj. to MW-15)
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
							~3" Asphalt							Adj. Boring 8-8-00 Corrected
							Reddish Brown silty sand							
					Loose to very Loose		Light brown to Light gray silty sand	SL	Mild Petroleum odor	1100	700			400
		NA	NA				Asphalt layer.		★ No Probe FID Gas 8-600	1400	800			600
	5						Light brown to tuffish							
							White silty sand		very strong petroleum odor.					
							mottled dark grayish black to light gray	SL		1000	100			900
	10													
							Light brown to light gray silty sand	SL	Very Strong Petroleum Odor	1200	150			1050
12-15' ★ Analytical Sample							Diesel?							
	15						Possible Free Product layer		Free Product remaining at canyon.	1600	1100			500
							Very Dark brown silty clay to clayey silt		Light color. Peat at bottom					
							Terminated boring at 16' BGS							
	20													
							Downgradient & Adjacent to Dispenser Island & Former Tank Pit.							

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Will include this location for analytical sample. Also RCRA metals, Cd, As, Pb, Chromium & TCLP

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Screened during adjacent boring on 08-08-00 for analytical.

Tetra Tech NUS, Inc.

MONITORING WELL SHEET

WELL No.: MW-15

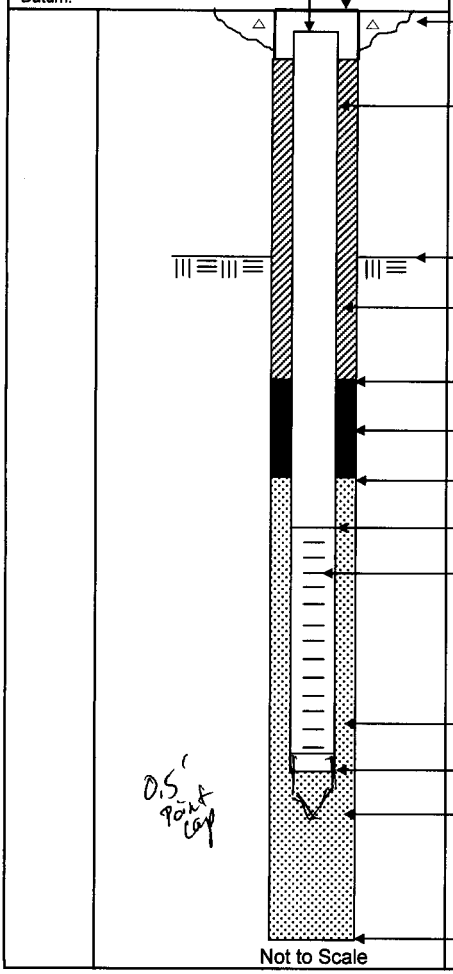
Adj. to previous boring SB11

PROJECT:	NASP-Bldg 1932	DRILLING Co.:	KECS	BORING No.:	MW-15
PROJECT No.:	N0547CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-08-00
SITE:	Tonch N' Go Svc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

see boring log.

Ground Elevation =

Datum:



Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2'x 2'
I.D. of Riser:	2-inch
Type of Riser:	sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. chips.
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.010 in x 10 ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16'
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16.25'

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP-Bldg. 832 Touch N' Go Struc. Sta.
PROJECT NUMBER: N0547 CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-16
DATE: 10-08-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
							3-4" Asphalt Surface							
						Dark reddish brown silty sand				0	0	0	0	
		NR				Yellowish brown silty sand		SC	Very					
					loose to very				Strong Hydrocarbon					
						Lt. Brown silty sand			odor.	95	0	0	0	Methane = 0ppm No Correction
	5				loose		fine-med. grained	SC	moist					
						Lt. Brown to dark gray mottled silty sand								
								SC		280	0	0	0	Methane: 10ppm 270 corrected
	10													
				▼						800	0	0	0	Methane = 150 650 Corrected
							Same as above	SC						
	15													
							Terminated boring at 16' BGS to set well							
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-16

Tetra Tech NUS, Inc.

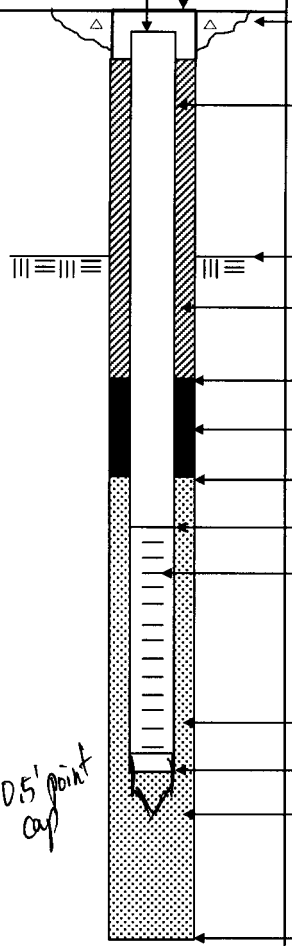
WELL No.: MW-16

MONITORING WELL SHEET

PROJECT:	NASP - Bldg. 1932	DRILLING Co.:	AECS	BORING No.:	MW-16
PROJECT No.:	N0547CTO140	DRILLER:	David Cobb	DATE COMPLETED:	
SITE:	Touch 'N' Go Svc Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete Pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932 Town'N'Go
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/Auger

BORING No.: MW-17
DATE: 10-09-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass sampler				
						Lt.	Brown silty sand						
					loose			SC		0	0	0	0
		NA			to	Yellowish	brown silty sand						
					very					0	0	0	0
	5				loose				damp				
						color change to							
			42"/48"			white "beach" sand							
								SC	moist	0	0	0	0
	10		42"/48"						wet	0	0	0	0
						Same as above			saturated				
								SC		0	0	0	0
	15												
						Terminated boring							
						at 16' BGS							
						to set well							
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-17

Tetra Tech NUS, Inc.

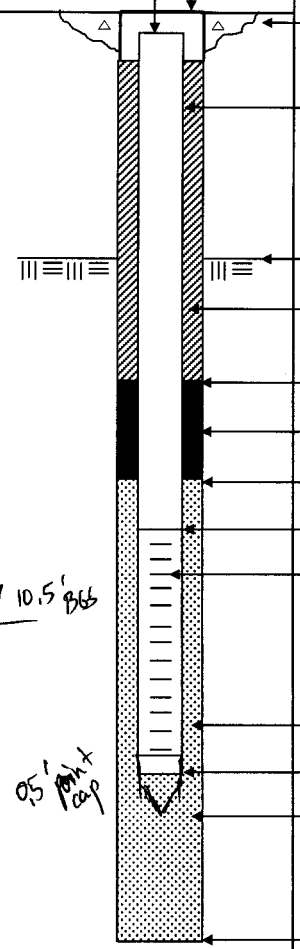
WELL No.: MW-17

MONITORING WELL SHEET

PROJECT:	NASP-Bldg.1932	DRILLING Co.:	AECS	BORING No.:	MW-17
PROJECT No.:	N0SA7CTO 140	DRILLER:	David Cobb	DATE COMPLETED:	10-09-00
SITE:	Touch'N'Go Svc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N.A. /
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.010 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Bldg 1932
PROJECT NUMBER: ~~CTO H2 N0041~~ CTO 0140 N0541 A/B
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe
BORING No.: SB-2
DATE: 08-05-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Adj. to MW18

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
					loose	Brown	to very light brown silty sand	SC	Hand Auge to 4' BGS	0	0	0	0
		NA	NA		to very loose					0	0	0	0
	5												
			26/12						No odor				
			40				Light gray staining	SC	Moist to Damp	4	0	0	
	10						Dark gray staining	SC	Strong Petrol Odor	330/0			
				Product		Black	staining from FP	SC		255/2			
	15						Product dripping from Sampler.						
							Terminated boring at 16' BGS.						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1932
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATI
DRILLING RIG: Geoprobe

BORING No.: SB-8 (Adj. to MW18)
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Nick D.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
		NA	NA		loose to very loose		Light Brown silty sand	SC	Hand Auger 4' BGS				
	5		11										
			42/46"				Dark Gray to black staining & Mottling	SC	Strong Odor of Petroleum damp				
	10		42"/46"										
			48"/46"					SC	wet				
	15						Black staining from Free Product.						
							Very Dark Brown "Peat" layer Laminated boring at 16' BGS.	CP	Saturated silty clay to clayey silt.				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: * Note Porta-FID Gas-ie Gone (Fitting hasn't arrived yet from Tallahassee)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

MONITORING WELL SHEET

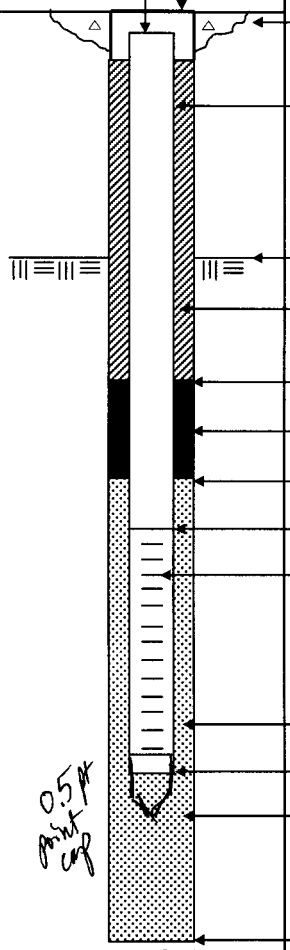
WELL No.: MW-18

Adj. to SB-2 and SB-8 ← See Boring Logs.

PROJECT:	NASP-Bldg. 1932	DRILLING Co.:	AECS	BORING No.:	MW-18
PROJECT No.:	N0547CT0140	DRILLER:	David Cobb	DATE COMPLETED:	10-09-00
SITE:	Tonch N'60 Srvc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	Concrete pad 2'x2
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A /
Type of Backfill:	grout / concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	med. chips Ziegler Bentonite ~~Filter Sil 30/40~~
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16'8.5

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg. 1932 Touch'N' Go
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW 19
DATE: 10-09-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									grass surface					
						Lt.	Brown silty sand	SC						
					loose					0	0	0	0	
		NA			to									Corrected
					very		gradational			20/5			0	15
	5				loose		color change to yellowish brown	SC	damp					
			36"											
			48"				Lt. gray staining		Very strong Hydrocarbon odor					Corrected
							gradational color change to white "beach" sand	SC		240/15			0	225
									moist					
	10		36"				fine-med. grained							
			48"						Strong odor					
										410/170			0	240
							Same as above	SC						
												120	250	5.0
	15													
							Terminated Boring at 16' BGS to set well.							
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-19

Tetra Tech NUS, Inc.

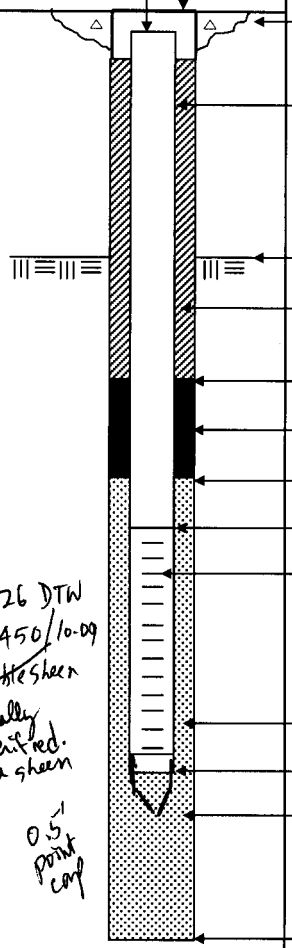
WELL No.: MW-19

MONITORING WELL SHEET

PROJECT:	NASP-Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-19
PROJECT No.:	N0547CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-09-00
SITE:	Touch'N'Go Sms Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	11.5
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	13.5
Elevation / Depth of Top of Screen:	15.5
Type of Screen:	sch 40 PVC
Slot Size x Length:	0.01 slot x 10ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	15.5
Elevation / Depth of Bottom of Filter Pack:	16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932 Touch'N'Go
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-20
DATE: 10-09-012
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									Grass Surface					
						Lt. Brown	silty sand							
		NA			loose			SL		0	0	0	0	
					to		fine - med. grained							
					very					0	0	0	0	
	5				loose									
			36"/							10	0		0	
			48"				Same as above							
									Wet ? Strong hydrocarbon odor	60	0		0	No correction methane=0
	10		36"/											
			48"				Same as above			170	0		0	No correction Methane=0
	15													
							Terminated boring at 16' BGS to set well							
	20													

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-20

Tetra Tech NUS, Inc.

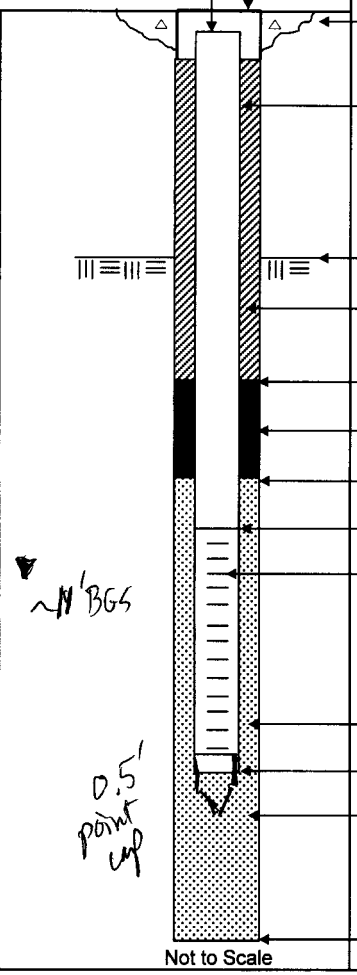
WELL No.: MW-20

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AEC S	BORING No.:	MW-20
PROJECT No.:	N0547 CTO 140	DRILLER:	David Cobb	DATE COMPLETED:	10-09-00
SITE:	Touch'N'Go Sing Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel manhole
Type of Surface Seal:	Concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~ 8 1/4"
Elevation / Depth Top of Rock:	NA
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. Chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot X 10ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932 Touch'N'Go
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-21
DATE: 10-10-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
						Lt.	Brown silty sand						
		NA			loose		fine-med. grained	SC		0	0	0	0
					to								
					very					0	0	0	0
	5				loose		same as above		Hydrocarbon odor				
			36"/						begins				
			48"						moist				
								SC	wet	95			0
	10		42"/					SC	wet	160		140	0
			48"				Same as above		very strong diesel odor				
								SC	Saturated	145			0
							Color change to						
							White "beach" sand						
	15						fine-med. grained.	SC					
									dark brown				
							Terminated boring		water staining				
							at 16' BGS		at bottom of				
							to set well		augers.				
									Near top of				
	20								port sample				

No Methane correction = 0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-21

Tetra Tech NUS, Inc.

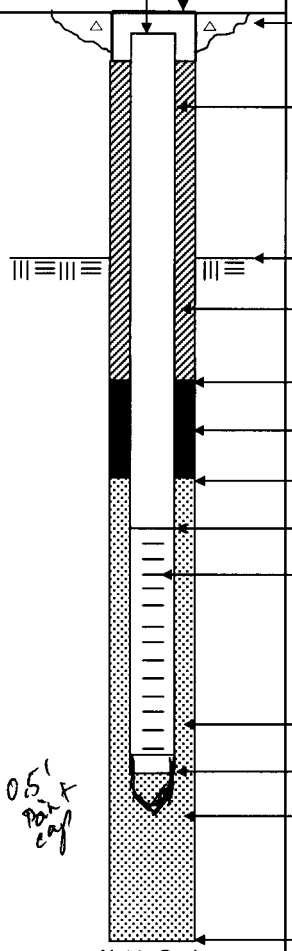
WELL No.: MW-21

MONITORING WELL SHEET

PROJECT:	NASP-Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-21
PROJECT No.:	N0547CT0140	DRILLER:	David Cobb	DATE COMPLETED:	10-10-00
SITE:	Touch'N'Go Gas Sta. NEX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel manhole
Type of Surface Seal:	Concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A
Type of Backfill:	grout / concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16 BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP-Bldg. 1932 Touch'N' Go
PROJECT NUMBER: N0547 CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-22
DATE: 10-10-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Grass Surface				
		NA				Lt.	Brown silty sand						
					loose			SC		0	0	0	0
					to		fine-med						
					very		grained	SC		0	0	0	0
	5				loose								
									damp				
			36"/48"										
							Same as above	SC	moist	0	0	0	0
	10		36"/48"						wet				
							Same as above	SC	saturated	0	0	0	0
	15												
									dark brown stained water out on bottom of augers (near peat layer)				
							Terminated boring at 16' BGS to set well						
	20												

No Methane Correction = 0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-22

Tetra Tech NUS, Inc.

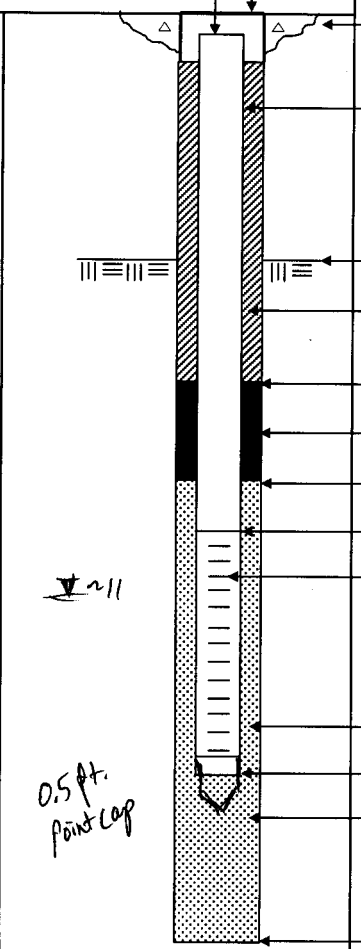
WELL No.: MW-22

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-22
PROJECT No.:	N0547 CTO140	DRILLER:	David Cobb	DATE COMPLETED:	10-10-00
SITE:	Touch'N' Go - NEX Stor. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary T. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	/
Elevation / Height of Top of Surface Casing:	/
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	NA.
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	/ 1.5
Type of Seal:	Pure Gold Bentonite Med. Chips
Elevation / Depth of Top of Filter Pack:	/ 3.5
Elevation / Depth of Top of Screen:	/ 5.5
Type of Screen:	Sch. 40 PVC
Slot Size x Length:	0.01 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	/ 15.5
Elevation / Depth of Bottom of Filter Pack:	/ 16
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	/ 16' BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS Pensacola Site Bldg 1732
PROJECT NUMBER: CTO 140 N0547
DRILLING COMPANY: ATE
DRILLING RIG: Geoprobe

BORING No.: SB-10 Adjacent to MW-23 installed 10-10-00
DATE: 08-06-00
GEOLOGIST: Gary J. Davis
DRILLER: Rick D.

10-10-00 Geoprobe during MW Installation for Screening

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
									Hand Auger				
					loose	Light Brown	silty sand	SC	to 4' BGS	0	0	0	0
		NA	NA		to				No Odor				
					very					0	0	0	0
	5				loose								
									*				
								SC	No Portable FID	0	0	0	0
									Gas				
									will collect				
	10								12-16 & 16-20				
				10-10-00					for visual				
						puff to white	silty sand			70	0		0
			30"	8-8-00					No Visual Free Product				
	15		/46"			color change due to		SC	Strong Petrol Odor & water				
						Dark Brown Staining of Sand			Saturated.				
				Peat		from Peat layer?		SC/PEL					
			46"										
			/46"			Dark Brown to	Yellowish brown	SC	fine to med.				
	20						silty sand		stained.				

Screened 10-10-00

10-10-00 No Methane Correction = 0

* When rock coring, enter rock brokeness

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area

Remarks:

Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: MW-23

Adjacent to MW-23 Location

Tetra Tech NUS, Inc.

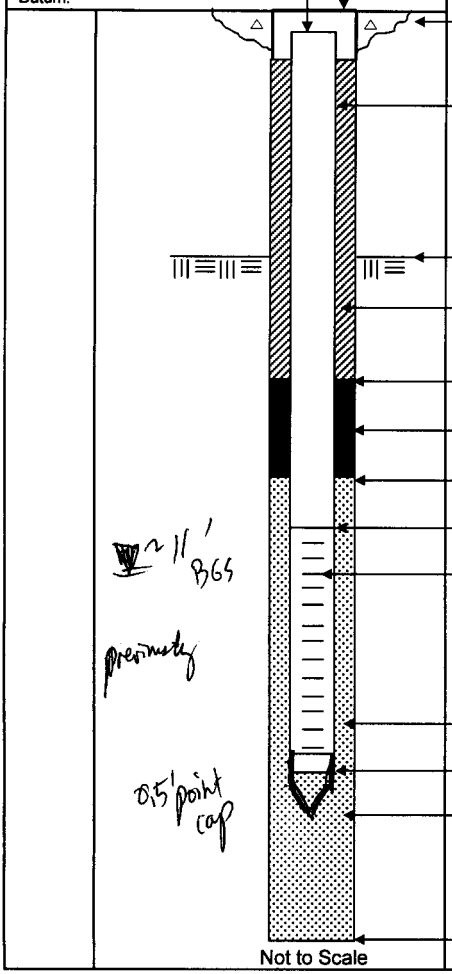
WELL No.: MW-23
Adj. to SB-10

MONITORING WELL SHEET

PROJECT:	NASP-Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-23
PROJECT No.:	N05A7 CT0140	DRILLER:	David Cobb	DATE COMPLETED:	10-10-00
SITE:	Touch'N Go Svc. Sta.	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis NEX	DEV. METHOD:	Pump + Surge	EASTING:	

See Boring Log

Ground Elevation =
Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	steel manhole
Type of Surface Seal:	concrete pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of Rock:	N/A
Type of Backfill:	grout/concrete
Elevation / Depth of Seal:	11.5
Type of Seal:	Pure Gold Bentonite Med. Chips.
Elevation / Depth of Top of Filter Pack:	13.5
Elevation / Depth of Top of Screen:	15.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x 10 ft.
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40
Elevation / Depth of Bottom of Screen:	25.5
Elevation / Depth of Bottom of Filter Pack:	26
Type of Backfill Below Well:	Filter Sil
Elevation / Total Depth of Borehole:	26 BGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP- Bldg 1932 Torch'N'Go
PROJECT NUMBER: N0347 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger.

BORING No.: MW-24D (deep)
DATE: 10-11-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Adj. to MW9

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**	
									Grass Surface					
					loose	Lt	Brown Silty Sand	SC	Hand Auger to 4' BGS					
		NA.			to	Yellowish	brown silty sand		Hand Probe to 5'	0	0	0	0	
					very loose					0	0	0	0	Screening from MW-9
	5													
							Gradational color change to white "beach" sand							↓ No Methane Correction = 0
										3	0	0	0	
	10			▼					slight to moderate Hydrocarbon odor.	100	0	0	0	"
									Saturated					
	15													See MW-9 Boring Log
			36"/ 48"		med. stiff		Dark Brown Silty sand mixed with peat.	SC/ PT	Saturated	NA				
	20				stiff		Peat w/ silty clay	PT	(Dark Brown H2O from Tannic Acid)					
			42"/ 48"		loose	dark	Silty sand brown	SC						
								SC						
	25				loose	Lt.	Brown silty sand							

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: Note! Flowing sands while pulling augers to set well. Stabalized ~25' BGS when pulled up to 25' = adding bentonite ~25-22' predominately bentonite 22-15' bentonite & sand mixture

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-24D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP - Bldg 1932 Tank N'Go
PROJECT NUMBER: N0547 CTO 140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-24D (Adj to MW9)
DATE: 10-11-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	25												
		NA	46"/46"		loose to very loose	H	Brown to white "beach" sand	SC	No odor				
	30		24"/24"				Same as above						
									logging from cuttings.				
	35						Same						
							Same						
	40												
							Terminated boring at 40' BGS to set well						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: At 25' starting to have problems w/ samples due to heaving sands. Will log from cuttings from Auger

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: MW-24D

Tetra Tech NUS, Inc.

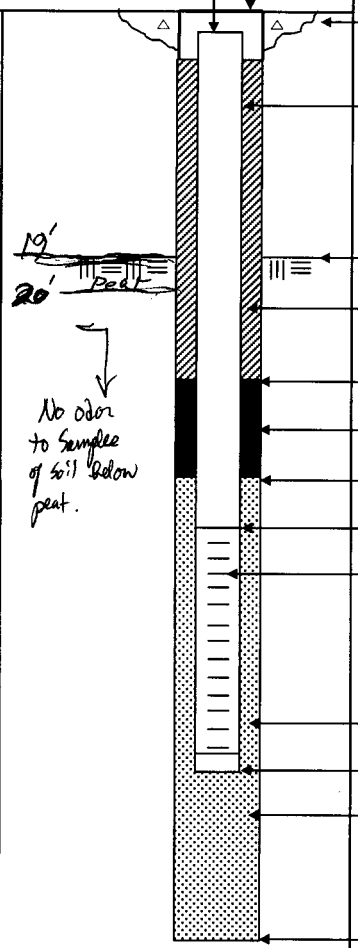
WELL No.: MW-24D

MONITORING WELL SHEET

PROJECT:	NASP - Bldg 1932	DRILLING Co.:	AECS	BORING No.:	MW-24D
PROJECT No.:	N0547 CTO 140	DRILLER:	David Cobb	DATE COMPLETED:	10-11-00
SITE:	Touch 'N' Go NEX	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	Gary J. Davis	DEV. METHOD:	Pump & Surge	EASTING:	

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1
I.D. of Surface Casing:	8-inch
Type of Surface Casing:	Steel Manhole
Type of Surface Seal:	Concrete Pad 2'x2'
I.D. of Riser:	2-inch
Type of Riser:	Sch 40 PVC
Borehole Diameter:	~8 1/4"
Elevation / Depth Top of ~~Rock~~: Peat layer	NA
Type of Backfill: Grout / Portland bentonite mixture 15' to surface	15'
Elevation / Depth of Seal:	122
Type of Seal: (1 bag) Pure Gold Bentonite Medium Chips	
Elevation / Depth of Top of Filter Pack:	125
Elevation / Depth of Top of Screen:	134.5
Type of Screen:	Sch 40 PVC
Slot Size x Length:	0.01 slot x ~~10~~ 5 ft
I.D. of Screen:	2-inch
Type of Filter Pack:	Filter Sil 20/40 & Natural Sand
Elevation / Depth of Bottom of Screen:	139.5
Elevation / Depth of Bottom of Filter Pack:	140' BGS
Type of Backfill Below Well: Filter Sil	
Elevation / Total Depth of Borehole:	140' BGS

Bentonite & Sand mixture due to Flowing Sands.

Flowing Sands

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NASP- Bldg. 1932
PROJECT NUMBER: N0547CTO140
DRILLING COMPANY: AECS
DRILLING RIG: Geoprobe w/ Auger

BORING No.: MW-25D
DATE: 10-18-00
GEOLOGIST: Gary J. Davis
DRILLER: David Cobb

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
									See SB10 adjacent boring for Boring Log and MW-23				
		NA											
	10												
				Rock									
	20												
									Logged from Cuttings				
					loose to very loose	Lt. Brown	silty sand	SL		NA	0	0	0
	30											0	0
							Same as above	SC			0	0	0
	40										0	0	0
							Terminated boring at 40' BGS to set well.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-25D

Tetra Tech NUS, Inc.

WELL No.: MW-25D

MONITORING WELL SHEET

PROJECT: NASP-Bldg 1932 DRILLING Co.: AECS BORING No.: MW-25D

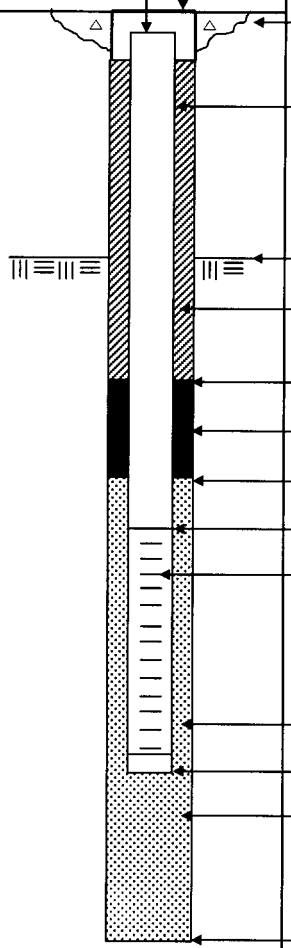
PROJECT No.: N0547CTO140 DRILLER: David Cobb DATE COMPLETED: 10-18-00

SITE: Touch 'N Go NEX Sta. DRILLING METHOD: HSA NORTHING:

GEOLOGIST: Gary J. Davis DEV. METHOD: Pumping Surge EASTING:

Ground Elevation =

Datum:



Not to Scale

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8-inch

Type of Surface Casing: steel manhole

Type of Surface Seal: concrete pad 2'x 2'

I.D. of Riser: 2-inch

Type of Riser: Sch 40 PVC

Borehole Diameter: ~8 1/4"

Elevation / Depth Top of Rock: NA

Type of Backfill: grout/portland bentonite mixture

Elevation / Depth of Seal: ~~130~~ 29' BGS

Type of Seal: Pure Gold Bentonite med. chips.

Elevation / Depth of Top of Filter Pack: ~~32.5~~ 31 BGS

Elevation / Depth of Top of Screen: 133.5

Type of Screen: Sch 40 PVC

Slot Size x Length: 0.01 slot x 5 feet

I.D. of Screen: 2-inch

Type of Filter Pack: Filter Sil 20/40

Elevation / Depth of Bottom of Screen: 138.5

Elevation / Depth of Bottom of Filter Pack: 140'

Type of Backfill Below Well: Filter Sil

Elevation / Total Depth of Borehole: 140' BGS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: NEX Touch'N' Go
[] QA Sample Type:

Sample ID No.: MW-1
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-04-01								
Time: 1100								
Method: Peristaltic	Clear	5.36	0.224	23.9	0	1.59	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-04-01								
Method: Peristaltic	~.25 gal	5.43	0.219	23.3	0	0.87	0.00	0830
Monitor Reading (ppm): NA		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	1 gal	5.38	0.226	23.8	0	1.46	0.00	0915
Type: Sch 40 PVC - 2 inch	2 gal	5.32	0.225	23.8	0	2.10	0.00	1010
Total Well Depth (TD): 16.34	2.5 gal	5.37	0.225	23.9	0	2.06	0.00	1040
Static Water Level (WL): 11.69	~3.0 gal	5.36	0.224	23.9	0	1.59	0.00	1100
One Casing Volume (gal/L): 0.76 gal								
Start Purge (hrs): 0825								
End Purge (hrs): 1100								
Total Purge Time (min): 155								
Total Vol. Purged (gal/L): 3 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40 ml vials	✓
SVOCs	ice	2 - 1L Amber	✓
EDB	Na-thiosulfate	2 - 40 ml vials	✓
PAH 8310	ice	2 - 1L Amber	✓
Pb, As, Cd, Cr	HNO3	16 oz - HDPE	✓
EL - PRB	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

Clear with no silt on bottom from beginning. Flow ~100ml/min
4.65 H_2O x .1632 = .76 gal

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

 1 990

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: NEX Touch'N'Go
[] QA Sample Type:

Sample ID No.: MW-2
Sample Location:
Sampled By: Amy J. Davis
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

Sal 98 TIMO

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-06-01								
Time: 1130								
Method: Peristaltic	Clear	5.42	0.338	24.3	0	0.17	0.01	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-06-01								
Method: Peristaltic	3.0 gal	5.40	0.338	24.4	0	0.17	0.01	1042
Monitor Reading (ppm): NA		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	4.0	5.39	0.338	24.3	0	0.15	0.01	1058
Type: Sch 40 PVC - 2 inch	5.0	5.42	0.338	24.3	0	0.17	0.01	1102
Total Well Depth (TD): 15.50								
Static Water Level (WL): 11.40								
One Casing Volume (gal/L): 0.69 gal								
Start Purge (hrs): 10.41								
End Purge (hrs): 1102								
Total Purge Time (min): 21								
Total Vol. Purged (gal/L): 5.0								

Stop max pump.

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3-40 ml vials	✓
SVOCs	ice	2-1 L Amber	✓
EDB	Na-Thiosulfate	2-40 ml vials	✓
RAHs 8310	ice	2-1 L Amber	✓
Pb, As, Cd, Cr	HNO3	1-1 L HDPE	✓
FL-PRO	HCL	2-1 L Amber	✓
MS/MSD		3-1 L Amber	✓

OBSERVATIONS / NOTES:

Pumping Max ~900 ml/min cleaned off bottom raised tubing to mid Col H2O
4.1' H2O stopped pumping at 5 gallons allowing recovery. Then purging slow.
x .1652 = .69

Circle if Applicable:
MS/MSD ✓
Duplicate ID No.:

Signature(s): Amy J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: CTO 140 N0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-3
Sample Location: Bldg 193
Sampled By: DH
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 5/2/01	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0830								
Method: peristaltic/straw	clear	5.98	.328	22.7	2	9.50	0.01	

PURGE DATA:

Date: 5/2/01	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic	initial	5.32	.362	22.2	55	3.40	0.01	slt cloud
Monitor Reading (ppm):	1	5.71	.319	22.4	0	4.48	0.01	clear
Well Casing Diameter & Material	2	5.77	.329	22.8	2	8.90	0.01	"
Type: 2" PVC	3	5.98	.328	22.7	2	9.50	0.01	"
Total Well Depth (TD): 15.90								
Static Water Level (WL): 10.38								
One Casing Volume(gal/L): .9								
Start Purge (hrs): 0745								
End Purge (hrs): 0830								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL/Ice	40ml x 3	✓
EDB Na	~~HCL~~, Ice	40ml x 2	✓
Pb, As, Cr Cd	HNO_3, Ice	500ml x 1	✓
SVOC	Ice	liter x 2	✓
FC PBO	HCL, Ice	" "	✓
PAH'S	Ice	" "	✓

OBSERVATIONS / NOTES:

No odors

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Donald Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: NAS Pensacola
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-4
Sample Location: Bldg 1932
Sampled By: Dan Hartnett
C.O.C. No.: 29911
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/4/01								
Time: 1530								
Method: peristaltic/straw	Clear	5.61	.138	22.7	5	2.64	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Date: 5/4/01								
Method: peristaltic	initial	5.76	.147	23.6	14	2.46	0.00	
Monitor Reading (ppm):	1	5.69	.140	23.5	17	2.71	0.00	1340
Well Casing Diameter & Material	2	5.52	.139	22.8	14	2.42	0.00	1410
Type: 2" PVC	3	4.97	.140	22.6	12	2.30	0.00	1435
Total Well Depth (TD): 16.05	4	5.41	.138	22.5	2	2.26	0.00	1500
Static Water Level (WL): 12.22	5	5.61	.138	22.7	5	2.64	0.00	1525
One Casing Volume(gal/L): .6								
Start Purge (hrs): 1315								
End Purge (hrs): 1525								
Total Purge Time (min): 1525-1315								
Total Vol. Purged (gal/L): ~4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL-Ice	40 ml x 3	✓
EDB	NaS_2O_3-Ice	40 ml x 2	✓
pb-cr-cd-As	HNO_3-Ice	500 ml x 1	✓
S VOC	Ice	1000 ml x 2	✓
~~TRPH~~ FL PRO	HCL-Ice	" x 2	✓
PAH	Ice	" x 2	✓

OBSERVATIONS / NOTES:

- Flow ≈ 100 ml/min
- slight Petroleum like odor
- pH erratic (more than 5%)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: CTO 140 No 547

Sample ID No.: MW-5
Sample Location: Bldg 1932
Sampled By: Dan Hartnett
C.O.C. No.: 29917

[] Domestic Well Data
[x] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/5/01								
Time: 0900								
Method: peristaltic/straw	Very Clear							

PURGE DATA:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/5/01								
Method: peristaltic	1	4.95	.338	23.7	0	1.91	0.01	0810
Monitor Reading (ppm):	2	6.04	.322	24.0	0	2.12	0.01	0830
Well Casing Diameter & Material	3	5.95	.324	23.8	0	2.55	0.01	0855
Type: 2" PVC								
Total Well Depth (TD): 15.40								
Static Water Level (WL): 11.57								
One Casing Volume(gal/L): .6								
Start Purge (hrs): 0745								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL - Ice	40 ml x 3	✓
EDB	$Na_2S_2O_4$ - Ice	40 ml x 2	✓
cr-Cd-As-Pb	HNO_3 - Ice	500 ml x 1	✓
SVOC	Ice	1000 ml x 2	✓
PAH'S	Ice	" "	✓
FL PRO	HCL - Ice	" "	✓

OBSERVATIONS / NOTES:

• Flow = 100ml/min

— petroleum like odors from purge water —

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: NEX Touch'N' Go
[] QA Sample Type:

Sample ID No.: MW-6
Sample Location:
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-05-01								
Time: 1220								
Method: Peristaltic	Clear	5.48	0.122	23.7	0	2.88	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-05-01								
Method: Peristaltic	n/gal	5.43	0.121	23.8	0	2.69	0.00	1100
Monitor Reading (ppm): NA	25	See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	4.5 gal	5.47	0.122	23.7	0	3.01	0.00	1150
Type: Sch 40 PVC - 2 inch	3 gal	5.48	0.122	23.7	0	2.88	0.00	1220
Total Well Depth (TD): 16.05								
Static Water Level (WL): 10.63								
One Casing Volume (gal/L): 0.68								
Start Purge (hrs): 1035								
End Purge (hrs): 1230								
Total Purge Time (min): 115								
Total Vol. Purged (gal/L): 3 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3-40 ml vials	✓
SVOCs	ice	2-1L Amber	✓
EDB	Na-Thiosulfate	2-40 ml vials	✓
PAHs 8310	ice	2-1L Amber	✓
Pb, As, Cd, Cr	HNO_3	1-16oz HDPE	✓
FL-PRO	HCL	2-1L Amber	✓

OBSERVATIONS / NOTES:

Measured WL prior to mini-Troll insertion. Pumped off silt & pieces of PVC off bottom & then reduced flow to ~100ml/min. (Chocolate brown then clear.)

5.42' H_2O x .1632 = .88

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Gary Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-7
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/3/01								
Time: 0930								
Method: peristaltic/straw	Very Clear	4.90	1110	23.0	7	1.90	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/3/01								
Method: peristaltic	1	4.54	.148	~~5.0~~ 22.4	5.0	2.04	0.00	
Monitor Reading (ppm):	2	5.01	.117	22.6	3	1.80	0.00	
Well Casing Diameter & Material	3	5.11	.115	22.7	3	2.21	0.00	
Type: 2" PVC	4	4.90	.110	23.0	7	1.90	0.00	
Total Well Depth (TD): 14.60								
Static Water Level (WL): 11.61								
One Casing Volume (gal/L): .50								
Start Purge (hrs): 0800								
End Purge (hrs): 0930								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 2.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL	40 ml X 3	✓
EDB	$Na_2S_2O_3$	40 ml X 2	✓
Pb-cr-cd-As	HNO_3	500 ml X 1	✓
SVOC	Ice	liter Amber X 2	✓
FL-PRO	HCL-Ice	" " "	✓
PAH's	Ice	" " "	✓

OBSERVATIONS / NOTES:

slight petroleum like odors.

Circle if Applicable:

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: CTO 140

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-8
Sample Location: Bldg 1932
Sampled By: Dan Hartnett
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/5/01								
Time: 1550								
Method: peristaltic/straw	Clear	5.78	.311	23.4	0	1.59	0.01	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/5/01								
Method: peristaltic	initial	5.60	.441	24.4	69	1.69	0.01	
Monitor Reading (ppm):	1	5.35	.316	24.6	10	0.79	0.01	1500
Well Casing Diameter & Material	2	5.81	.310	24.1	0	1.61	0.01	1522
Type: 2" PVC	3	5.78	.311	23.4	0	1.59	0.01	1545
Total Well Depth (TD): 15.55								
Static Water Level (WL): 12.11								
One Casing Volume(gal/L): .55								
Start Purge (hrs): 1440								
End Purge (hrs): 1545								
Total Purge Time (min):								
Total Vol. Purged (gal/L): ~2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL - Ice	40ml x 3	✓
EDB	$Na_2S_2O_3$ · Ice	40ml x 2	✓
Pb-Cr-Cd-As	HNO_3 · Ice	500ml x 1	✓
SVOC	Ice	1000ml x 2	✓
PAH's	Ice	" "	✓
FL PRO	HCL · Ice	" "	✓

OBSERVATIONS / NOTES:

- Flow = 100ml/min
- Stong Petroleum like Odors
  Sheen

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-9
Sample Location: Bldg 1932
Sampled By: Dan Hartnett
C.O.C. No.: 29911
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 5/4/01	Color	pH	S.C.	Temp.	Turbidity	DO	TBD	TBD
Time: 1020	Visual	Standard	mS/cm	°C	NTU	mg/l	% Sal	
Method: peristaltic/straw	Clear	5.33	.163	23.3	9	2.59	0.00	~~101~~

PURGE DATA:

Date: 5/4/01	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	~~TBD~~ Time
Method: peristaltic							% Salinity	
Monitor Reading (ppm):		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	initial	4.83	.197	21.5	14	2.01	0.00	07:44
Type: 2" PVC	1	4.97	.167	22.1	22	2.25	0.00	0807
Total Well Depth (TD): 15.55	2	5.42	.170	22.9	12	2.21	0.00	~0845
Static Water Level (WL): 11.12	3	5.28	.166	23.2	11	2.32	0.00	~0912
0.7 One Casing Volume (gal/L): ~~1.55~~	4	5.40	.164	23.2	10	2.51	0.00	1000
Start Purge (hrs): 0740	4.5	5.33	.163	23.3	9	2.59	0.00	1015
End Purge (hrs): 1015								
Total Purge Time (min): ~~NOW~~								
Total Vol. Purged (gal/L): 4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL-Ice	40ml x ~~2~~ (Three)	✓
EDB	$Na_2S_2O_3$-Ice	40ml x 2	✓
pb cr cd As	HNO_3-Ice	500ml x 1	✓
SVOC	Ice	1000ml x 2	✓
PAH's	Ice	" "	✓
FL-PRO	HCL-Ice	" "	✓

OBSERVATIONS / NOTES:

• Flow Rate = ~100ml/min • Petroleum like Odors

Circle if Applicable:

MS/MSD: N/A

Duplicate ID No.: DUP-2

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-10
Sample Location: Bldg 1932
Sampled By: Dan Hartnett
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5-1-01 Time: 1620 Method: peristaltic/straw	Clear	5.46	.276	22.4	10	10.41	0.01	

PURGE DATA:

Date: 5-1-01	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic	initial	5.25	.308	24.9	327	11.59	0.0	
Monitor Reading (ppm):	1	5.51	.280	22.8	22	9.54	0.0	
Well Casing Diameter & Material	2	5.54	.281	22.9	13	10.51	0.01	
Type: 2" PVC	3	5.46	.276	22.4	10	10.41	0.01	
Total Well Depth (TD): 15.95								
Static Water Level (WL): 12.13								
One Casing Volume(gal/L): .63								
Start Purge (hrs): 1538								
End Purge (hrs): 1620								
Total Purge Time (min): (1620-1538)								
Total Vol. Purged (gal/L): 2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL/Ice	40ml x3	✓
EDB	HCL	40ml x2	✓
Pb, As, Cr, Cd,	HNO3/Ice	500ml p. x1	✓
SVOC	Ice	liter x 1	✓
FL PRO	~~Ice~~ HCL	" "	✓
PAH'S	Ice	" "	✓

OBSERVATIONS / NOTES:

Slight Petroleum Like Odor, gets Stronger w/increasing purge Volumn.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Dan Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[✓] Monitoring Well Data
[] Other Well Type: NEX Svc. Station Touch'N'Go
[] QA Sample Type:

Sample ID No.: MW-11
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[✓] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-03-01								
Time: 1815								
Method: Peristaltic	Clear	4.76	0.099	22.4	9	1.50	0.00	

Sol % Time

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-03-01								
Method: Peristaltic	1 gal	4.98	0.093	22.6	16	0.26	0.00	1545
Monitor Reading (ppm): NA.	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	2 gal	4.81	0.098	22.4	21	2.95	0.00	1630
Type: Sch 40 PVC -2inch	3 gal	4.77	0.098	22.4	12	2.98	0.00	1715
Total Well Depth (TD): 16.50	4 gal	4.76	0.099	22.4	9	3.50	0.00	1800
Static Water Level (WL): 11.91								
One Casing Volume(gal/L): .74								
Start Purge (hrs): 1415								
End Purge (hrs): 1800								
Total Purge Time (min): 225								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40ml vials	✓
SVOCs	Ice	2 - 1 L Amber	✓
EDB	Na-thiosulfate	2 - 40ml vials	✓
PAHs 8310	Ice	2 - 1 L Amber	✓
Pb, As, Cd, Cr	HNO_3	16oz - HDPE	✓
TCL PRO	HCL	2 - 1 L Amber	✓

OBSERVATIONS / NOTES:

Pumped off bottom silt-brown water pieces of leaves & PVC cuttings then moved tubing within ~1 ft of water table.

4.59' H_2O
x.1632
.74 gal x3 = 2.24

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Gary J. Davis

MW-22 12.32 - 15.80

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP Bldg 1932
Project No.: CTO 140 NO 547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-12
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.: 29912
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/2/01								
Time: 1340								
Method: peristaltic/straw	V. Clear	5.54	.123	22.9	0	5.51	0.00	No odor

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/2/01								
Method: perisaltic	initial	5.60	.128	22.6	0	6.60	0.00	Very Clear
Monitor Reading (ppm):	1	5.41	.122	22.5	0	5.96	0.00	" "
Well Casing Diameter & Material	2	5.54	.122	22.4	0	6.00	0.00	" "
Type: 2" PVC	3	5.54	.123	22.9	0	5.51	0.00	" "
Total Well Depth (TD): 15.85								
Static Water Level (WL): 10.47								
One Casing Volume(gal/L): .9								
Start Purge (hrs): 1300								
End Purge (hrs): 1340								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): ~3.								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL/Ice	40ml x 3	✓
EDB		40ml x 2	✓
pb. cr. cd. As	HNO3/Ice	500ml x 1	✓
FL-PRO	HCL/Ice	liter x 2	✓
SVOC	Ice	" "	✓
PAH'S	Ice	" "	✓
PAH/ms/msD	Ice	liter x 1	✓
FL-PRO/ms/msD	HCL/Ice	" "	✓
SVO/ms/msD	Ice	" "	✓

OBSERVATIONS / NOTES:

No Noticeable odors of Concern

Signature(s): Dan Hartnett

Check if Applicable: MS/MSD **Duplicate ID No.:**

3-liter Amber

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[✓] Monitoring Well Data
[] Other Well Type: Touch 'N' Go NEX Serv. Sta
[] QA Sample Type:

Sample ID No.: MW-13
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-02-01								
Time: 1045								
Method: Peristaltic	Clear	5.36	0.109	21.1	0	3.25	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-02-01								
Method: Peristaltic	0.1 gal	5.73	0.112	21.6	-0	4.09	0.00	0935
Monitor Reading (ppm): NA	~~See Low Flow Purge Data Sheet~~							
Well Casing Diameter & Material	~1.5	5.36	0.110	21.1	0	3.95	0.00	0955
Type: Sch 40 PVC-2"	~2.0	5.34	0.113	21.1	0	3.64	0.00	1007
Total Well Depth (TD): 16.10	~3.0	5.36	0.109	21.1	0	3.25	0.00	1030
Static Water Level (WL): 10.44								
One Casing Volume(gal/L): 0.92								
Start Purge (hrs): 0930								
End Purge (hrs): 1040								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 3.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40ml vials	✓
SVOCs	ice	2 - 1L Amber	✓
EDB	Na Thiosulfate	2 - 40ml vials	✓
PAHs 8310	ice	2 - 1L Amber	✓
Pb, As, Cd, Cr.	HNO_3	1 by HDPE	✓
FI-Pro	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

16.10
-10.44
5.66 ft.
x.1632 = 0.92

Flow ~ 100ml/min
MS/MSD Kits coming from lab yet. Dan wants to check requirements first. lab told him not a full sample required.

Circle if Applicable:
~~MS/MSD~~ No
Duplicate ID No.:

Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[✓] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type: NEX Torch'N'Go

Sample ID No.: MW-14
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[✓] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-04-01								
Time: 1630								
Method: Peristaltic	Clear	5.50	0.406	23.6	0	6.16	0.01	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-04-01								
Method: Peristaltic	1 gal	5.69	0.471	24.2	0	0.48	0.01	1330
Monitor Reading (ppm): NA	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material	1 gal	5.61	0.459	24.1	0	0.38	0.01	1420
Type: Sch.40 PVC - 2 inch	1.5 gal	5.56	0.431	23.6	0	3.05	0.01	1450
Total Well Depth (TD): 15.65	2.0 gal	5.51	0.416	23.6	0	4.85	0.01	1515
Static Water Level (WL): 11.78	2.5 gal	5.51	0.411	23.6	0	5.53	0.01	1555
One Casing Volume (gal/L): .66	3.0 gal	5.50	0.408	23.6	0	6.16	0.01	1625
Start Purge (hrs): 1330								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40 ml vials	✓
SVOCs	Ice	2 - 1L Amber	✓
EDB	Na-thiosulfate	2 - 40 ml vials	✓
PAHs 8310	ice	2 - 1L Amber	✓
Pb, As, Cd, Cr,	HNO3	1 bag HDPE	✓
FL-PRO	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

4.07' H_2O
x.1632
.66' = 1 Vol

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.: CTO 140 N0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-16
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.: 29917
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/4/01								
Time: 1205								
Method: peristaltic/flow	clear	5.98	.193	24.0	0	2.41	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/4/01								
Method: peristaltic	initial	5.64	.194	24.5	0	2.51	0.00	
Monitor Reading (ppm):	1	5.92	.197	23.7	0	3.53	0.00	1110
Well Casing Diameter & Material	2	5.89	.194	23.7	0	2.34	0.00	1135
Type: 2" PVC	3	5.98	.193	24.0	0	2.41	0.00	1200
Total Well Depth (TD): 15.81								
Static Water Level (WL): 11.69								
One Casing Volume(gal/L): .7								
Start Purge (hrs): 1045								
End Purge (hrs): 1200								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): ~3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL + Ice	40 ml x 3	✓
EDB	$Na_2S_2O_3$ - Ice	40 ml x 2	✓
Pb cr cd As	HNO_3 - Ice	500 ml x 1	✓
PAH's	Ice	1000 ml x 2	✓
SVOC	Ice	" "	✓
FL PRO	HCL - Ice	" "	✓

OBSERVATIONS / NOTES:

- petroleum like odors
- Flow = 100 ml/min

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): Dave Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: Touch 'N' Go NEX Service Station
[] QA Sample Type:

Sample ID No.: MW-17
Sample Location: MW-17
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 5-1-01								
Time: 1510								
Method: Peristaltic	Clear	6.33	0.147	20.9	5	5.13	0.00	

PURGE DATA

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 5-1-01								
Method: Peristaltic	0.5 gal	7.50	0.168	21.3	999	5.92	0.00	
Monitor Reading (ppm): NA		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	~1.0 gal	6.02	0.148	21.2	24	5.31	0.00	
Type: Sch 40 PVC 2"	~1.5 gal	5.99	0.148	21.1	15	4.91	0.00	1420 hrs
Total Well Depth (TD): 15.78	~2.0 gal	6.07	0.149	20.9	8	5.08	0.00	1435
Static Water Level (WL): 11.22	2.5	6.21	0.149	20.9	6	5.14	0.00	1455
One Casing Volume(gal/L): 0.75	3 gal	6.33	0.147	20.9	5	5.13	0.00	1509
Start Purge (hrs): 1400								
End Purge (hrs): 1510								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 3 gal								

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	(3) 40ml VOAs	X
SVOCs	ice	(2) 1L Amber	X
EDB	Sodium Thiosulfate	2 40ml VOAs	X
PAHS 8310	— ice	2 - 1L Amber	X
Pb, As, Cd, Cr	HNO3	16 oz HDPE	X
FL-PRO	HCL	2 - 1L Amber	X

OBSERVATIONS / NOTES:

Sucked Brown clay & Silt from Bottom - Cleared Quickly - Moved Tubing to mid column
Set pump ~100 ml/min.
4.56' H_2O x .1632 = 0.74 gal.

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: NEX Touch 'N' Go
[] QA Sample Type:

Sample ID No.: MW-18
Sample Location:
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

Gal. & Time

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	TBD	TBD
	Visual	Standard	mS/cm	°C	NTU	mg/l		
Date: 05-03-01								
Time: 1100								
Method: Peristaltic	Clear	4.98	0.318	25.7	37	8.86	0.01	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-03-01								
Method: Peristaltic	~1 gal	5.04	0.349	24.2	156	0.24	0.01	0910
Monitor Reading (ppm): NA		~~See Low Flow Purge Data Sheet~~						
Well Casing Diameter & Material	~1.5	5.03	0.330	24.3	60	1.07	0.01	0930
Type: Sch 40 PVC - 2 inch	~2.5	4.99	0.314	25.2	42	5.90	0.01	1000
Total Well Depth (TD): 15.82	~3.0	4.98	0.318	25.7	37	8.86	0.01	1045
Static Water Level (WL): 12.37								
One Casing Volume(gal/L): .56 gal								
Start Purge (hrs): 0900								
End Purge (hrs): 1045								
Total Purge Time (min): 105 min								
Total Vol. Purged (gal/L): ~3 Dal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40 ml vials	✓
SVOCs	ice	2 - 1L Amber	✓
EDB	Na2S2O3	2 - 40 ml vials	✓
PAHs 8310	ice	2 - 1L Amber	✓
Pb, As, Cd, Cr	HNO3	16 oz HDPE	✓
Fl - Pro	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

15.82 − 12.37 = 3.45' H2O x .1632 = 1 Vol. = .56 gal

Cleaned off Bottom 1st. = Dark chocolate Brown - cleaning to light brown "tea" color from peat layer.

Strong Petroleum odor like Diesel and sheen

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary J. Dain

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-20
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.: 29917
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/6/01								
Time: 1205								
Method: peristaltic/straw	clear	5.83	.268	23.8	0	0.64	0.01	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: peristaltic								
Method: 5/6/01	initial	4.18	.270	24.0	0	1.71	0.01	1025
Monitor Reading (ppm):	1	5.64	.265	23.6	0	1.65	0.01	1100
Well Casing Diameter & Material	2	5.78	.266	23.8	0	1.32	0.01	1130
Type: 2" PVC	3	5.83	.268	23.8	0	0.64	0.01	1200
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1025								
End Purge (hrs): 1200								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL-Ice	40ml x 3	✓
EDB	$Na_2S_2O_3$-Ice	40ml x 2	✓
Pb cr cd As	HNO_3-Ice	500ml x 2	✓
PAH's	Ice	1000ml x 2	✓
SVOC	Ice	" "	✓
FL PRO	HCL-Ice	" "	✓

OBSERVATIONS / NOTES:

• petroleum like odors • purge water frothy

Circle if Applicable:

MS/MSD: N/A

Duplicate ID No.: DUP-3

Signature(s): Dan Hartnett

35/7 | 24.73 21/37 35/23

33.53/4.7

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS Pensacola
Project No.:

[] Domestic Well Data
[x] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-21
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.: 29911
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/3/01								
Time: 1625								
Method: peristaltic/straw	Clear	5.40	.233	24.2	5	0.63	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Date: 5/3/01								
Method: peristaltic	initial	5.00	.244	24.7	37.	2.80	0.00	1432
Monitor Reading (ppm):	1	5.42	.238	23.9	16.	2.41	0.00	1500
Well Casing Diameter & Material	2	5.26	.232	23.8	17.	2.73	0.01	1520
Type: 2" PVC	3	5.28	.230	23.8	17.	1.75	0.01	1540
Total Well Depth (TD): 15.79	4	5.39	.233	24.0	10	0.67	0.00	1600
Static Water Level (WL): 11.96	5	5.40	.233	24.2	5	0.63	0.00	1620
One Casing Volume(gal/L): .6								
Start Purge (hrs): 14:30								
End Purge (hrs): 16 20								
Total Purge Time (min): 195								
Total Vol. Purged (gal/L): ~3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL, Ice	40ml x 3	✓
EDB	$Na_2S_2O_3$ + Ice	40ml x 2	✓
Pb, Cr, Cd, As	HNO_3 + Ice	Pl. 500ml x 1	✓
SVOC	Ice	lite Amber x 2	✓
PAH's	Ice	" "	✓
FL. PRO	HCL/Ice	" "	✓

OBSERVATIONS / NOTES:

100ml/min purge rate
strong Petroleum like odors.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
N/A	N/A

Signature(s): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NAS Pensacola
Project No.: CTO 140-N0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: MW-22
Sample Location: Bldg 1932
Sampled By: D. Hartnett
C.O.C. No.: 29912
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/2/01								
Time:								
Method: peristaltic/straw								

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/2/01								
Method: peristaltic	initial	5.22	.164	24.2	0	2.31	0.00	V. Clear
Monitor Reading (ppm):	1	4.57	.208	24.0	0	1.19	0.00	"
Well Casing Diameter & Material	2	4.78	.156	23.4	0	2.41	0.00	"
Type: 2" PVC	3	4.73	.154	23.0	0	2.64	0.00	"
Total Well Depth (TD): 15.80								
Static Water Level (WL): 12.32								
One Casing Volume(gal/L): .56								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L): ~2.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL/Ice	40ml x 3	✓
EDB	$Na_2S_2O_3$/Ice	40ml x 2	✓
Cr - As - Cd - Pb	HNO_3/Ice	500ml x 1	✓
SVOC	Ice	1 liter x 2	✓
PAH's	Ice	1 liter x 2	✓
FL-PRO	HCL/Ice	1 liter x 2	✓

OBSERVATIONS / NOTES:

Collect E.Q.-1 (Equipment Blank-1) prior to MW-22, (Use Same Tubing)

Circle if Applicable:

MS/MSD N/A

Duplicate ID No.: DUP-1

Signature(s): Don Hartnett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[✓] Monitoring Well Data
[] Other Well Type: NEX Touch 'N' Go
[] QA Sample Type:

Sample ID No.: MW-23
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.: 29912
Type of Sample:
[✓] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-02-01								
Time: 1800								
Method: Peristaltic	Brown	5.21	0.126	24.2	66	0.57	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-02-01								
Method: Peristaltic	~1 gal	4.91	0.123	24.2	87	0.87	0.00	1605
Monitor Reading (ppm): NA		See Low Flow Purge Data Sheet						
Well Casing Diameter & Material	~2	5.11	0.124	23.9	76	0.74	0.00	1645
Type: Sch 40 PVC - 2 inch	22.5	5.16	0.126	24.5	74	0.57	0.00	1705
Total Well Depth (TD): 15.80	~3.0	5.21	0.126	24.2	66	0.57	0.00	1740
Static Water Level (WL): 11.57								
One Casing Volume(gal/L): .7								
Start Purge (hrs): 1545								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3-40 ml vials	✓
SVOCs	Ice	2-1L Amber	✓
EDB	Na-Thiosulfate	2-40 ml vials	✓
PAHs	Ice	2-1L Amber	✓
Pb, As, Cd, Cr	HNO3	1 liter HDPE	✓
EL-PRO	HCL	2-1L Amber	✓

OBSERVATIONS / NOTES:

15.80
11.57
4.231
x.1632 = 0.69

Like "Brown Tea" from peat layer
If metals are high then this is probably why.

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[✓] Monitoring Well Data
[] Other Well Type: NEX Touch 'N' Go
[] QA Sample Type:

Sample ID No.: MW-24D
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[✓] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-05-01								
Time: 1645								
Method: Peristaltic								

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-05-01								
Method: Peristaltic	2.5gal	4.65	0.59	25.9	0	0.43	0.00	1525
Monitor Reading (ppm):	See Low Flow Purge Data Sheet							
Well Casing Diameter & Material								
Type: Sch 40 PVC - 2 inch	5.0	4.85	0.58	25.8	0	0.26	0.00	1537
Total Well Depth (TD): 39.60	10.0	4.90	0.58	25.6	0	0.29	0.00	1557
Static Water Level (WL): 12.15	15.0	4.70	0.59	25.6	0	1.04	0.00	1620
One Casing Volume (gal/L): 4.5	20.0	4.68	0.59	25.5	0	0.48	0.00	1640
Start Purge (hrs): 1510								
End Purge (hrs): 1640								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40 ml vials	✓
SVOCs	ice	2 - 1L Amber	✓
EDB	NA-Thiosulfate	2 - 40 ml vials	✓
PAHs 8310	ice	2 - 1L Amber	✓
Pb, As, Cd, Cr.	HNO3	1 - 16oz HDPE	✓
PL-PRD	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

Flow ~ 900 ml/min on Drawdown test (MW24DMax) After cleaning off bottom 27.45' H2O raised tubing to mid screen level. Color like clear to light tea
x 1.6672 16:40 Stopped pump to allow recovery
4.48 gal = 1 Vol.

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NASP-Bldg. 1932
Project No.: CTO 140 / 0547

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: NEX Touch 'N' Go
[] QA Sample Type:

Sample ID No.: MW-25D
Sample Location:
Sampled By: Gary J. Davis
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	TBD	TBD
Date: 05-02-01								
Time: 1820								
Method: Peristaltic	Clear	4.17	0.055	24.2	10	0.46	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	TBD	TBD
Date: 05-02-01								
Method: Peristaltic	~.4gal	4.45	0.060	24.6	54	2.25	0.00	~~0945~~ 1445
Monitor Reading (ppm): NA		~~See Low Flow Purge Data Sheet~~					~~0.00~~	
Well Casing Diameter & Material	2gal	4.18	0.054	25.7	18	1.07	0.00	1515
Type: Sch 40PVC - 2inch	3gal	4.18	0.053	25.9	10	1.18	0.00	1535
Total Well Depth (TD): 38.55	5gal	4.13	0.055	24.6	10	0.40	0.00	1630
Static Water Level (WL): 12.58	7gal	4.30	0.055	24.7	10	0.49	0.00	1650
One Casing Volume(gal/L): 4.2A	10gal	4.18	0.055	24.2	10	0.50	0.00	1730
Start Purge (hrs): 1445	13gal	4.17	0.055	24.2	10	0.46	0.00	1815
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 - 40ml Vials	✓
SVOCs	Ice	2 - 1L Amber	✓
EDB	Na-thiosulfate	2 - 40ml vials	✓
PAHs 8310	Ice	2 - 1L Amber	✓
Pb, As, Cd, Cr	HNO3	16 oz - HDPE	✓
FL-Pro	HCL	2 - 1L Amber	✓

OBSERVATIONS / NOTES:

25.97 H_2O Flow ~100ml/min
.1632
4.2A

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Gary J. Davis

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-2
Site: 1932
Date Installed: 10/4/00
Date Developed: 10/7/00
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): 15.60
Static Water Level Before (ft.): 10.65
Static Water Level After (ft.): 10.75
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2"

Responsible Personnel: Dan Hartnett
Drilling Co.: AECOM
Project Name: NAS Pensacola
Project Number: N05A7 CTO 1A0

Flow Rate = 1 Gal/45 sec

0800 Calibrate Horiba U-10 S/N 511014 (Pine Env.)

Time Begin ~~10~~ 0750	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume ~ (Gal.)	Water Level Readings (Ft. below TOC) OTW 0.0	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
~~0800~~	.1		6.31	27.1	5.77	.316	22	Slightly Cloudy
0805	0	20	↓	↓	↓	↓	↓	↓
0820	0	40	11.47 6.02	27.8	6.01	.266	6	Clear, No odor → Move Pump
0835	0	60	11.44 6.30	27.8	6.03	.265	2.1	" " "
0850	0	80	6.17	28.1	6.01	.265	5	Very Clear, No odor → Move Pump
0905	0	100	6.31	28.0	6.03	.266	2	" " " "

End Development

Salinity Consistently 0.01%

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-3 AP DP
Site: Bldg 1932
Date Installed: 10/4/00
Date Developed: 10/6/00
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 10.21
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartnett
Drilling Co.: AECG
Project Name: NAS Pensacola
Project Number: N0547 CTO 140

Flow Rate = 1 Gal/50 sec.

10/6/00 Calibrate Horiba 10:35

Time Begin 1030	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	D.O.	Temperature (Degrees C) sal	Temp	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.) Very Dark Brown initially
1040	~.1	11	0.01	7.92	.01	28.2	5.40	.269	451	Brown Haze No odor
1050	0	~23	10.21	8.06	.00	28.1	5.91	.222	106	Slightly cloudy No odor → surge pump
1055	0	29	10.22	8.06	.01	27.9	5.96	.222	49	" " " "
1105	0	41	10.22	8.09	.00	28.2	5.97	.226	61	" " " " "
1115	0	52	10.22	8.10	.00	28.2	6.00	.228	64	" " " " "
1130	0	69	10.23	8.17	.01	28.4	6.01	.231	41	" " " "
1140	0	80		8.20	.00	28.4	6.02	.233	21	Slight Brownish Tint. No odors
1145	0	85	10.23	8.23	.00	28.4	6.03	.233	15	" " " " "
1150	0	90	10.23	8.23	.00	28.4	6.05	.234	10	Clearer, still Slight Tint "
1200	0	101	10.23	8.28	.00	28.5	6.02	.235	9	" " " "
End development										

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: ~~10/6~~ 10MW-4
Site: NAS Pensacola
Date Installed: 10/5/00
Date Developed: 10/6/00
Dev. Method: Pump - Whale
Pump Type: Submersible

Depth to Bottom (ft.): 16.00'
Static Water Level Before (ft.): 10.96
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartnett
Drilling Co.: AECS
Project Name: Bldg 1932
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume ~(Gal.)	Water Level Readings (Ft. below TOC) DTW	O.O.	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1445	.1	10	11.19	8.39	26.9	6.05	.125	840	Very DK. Brown
1500	0	27		7.96	26.7	6.00	.126	945	" " "
1515	0	43		7.67	26.7	6.06	.141	598	" " "
1540	0	70	11.21	7.59	"	6.12	.152	306	SL Cleaner
1550	0	81	11.21	7.60	26.5	6.15	"	234	" "
1615	0	110		7.68	26.6	6.15	.151	162	Hazy Brown
1635	0	131	11.21	7.49	26.5	6.26	.153	126	" "
1650	0	147	11.21	7.45	26.6	6.16	"	105	" "
1710	0	158	11.22	7.57	26.7	"	.154	70	Clearing
1720	0	169	11.21	7.64	26.6	6.17	.155	57	"
1730	0	180	11.20	7.67	26.5	6.18	.154	54	"
1800	0	210	11.20	7.45	26.6	6.16	"	12	Very Clear
1810	0	220	11.20	7.49	"	6.15	.155	9	" "
1820	0	240	11.20	7.54	"	"	.155	9	" "
End									

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-5
Site: Bldg 1932
Date Installed: 10-5-00
Date Developed: 10/8/00
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): 15.60
Static Water Level Before (ft.): 11.26
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartnett
Drilling Co.: AECG
Project Name: NAS Pensacola
Project Number: N0542 CTO140

Time Begin 0745	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) DTW	D.O	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0820	.1	40		5.71	25.6	5.86	.207	39	SL Hazy, Brownish
0850	0	80	11.53	5.65	25.6	6.15	.177	36	" " "
0935	0	140	11.53	5.91	26.8	6.15	.163	37	" " "
1005	0	180	11.53	6.11	26.8	6.14	.161	14	clear
1020	0	200	11.53	6.13	26.8	6.15	.162	9	"
1035	0	220	11.53	6.15	26.8	6.14	.162	9	"

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-46 6 ~~49~~ DTD
Site: NAS Pensacola
Date Installed: 10/5/00
Date Developed: 10/7/00
Dev. Method: pump
Pump Type: Submersible

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 9.30
Static Water Level After (ft.): 9.32
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): PVC 2"

Responsible Personnel: D. Hartnett
Drilling Co.: AECS
Project Name: Bldg 1932
Project Number: N0547 CTO 140

Time Begin 1000	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) DTW	D.O.	Temperature (Degrees C)	pH	Specific Conductance (Units ~~mS/cm~~) Cond	Turbidity (NTU)	Remarks (odor, color, etc.)
1015	.1	20	9.44	7.20	25.5	6.15	.058	179	Hazy, Brown
1030	0	40		7.08	26.1	5.70	.056	206	" "
1045	0	60		6.98	25.7	5.77	.054	225	" "
1100	0	80	9.47	6.49	26.0	5.70	.056	227	" "
1115	0	100	9.47	7.08	26.2	5.71	.053	225	" "
1130	0	120	9.47	7.13	26.3	5.74	.053	202	" "
1145	0	140	9.46	7.30	26.3	5.73	.056	200	" "
1345	0	300	9.46	7.71	26.3	5.80	.053	142	" "
1400	0	320	9.45	8.22	26.3	5.82	.055	89	Sl. Clearer
1415	0	340		8.74	27.3	5.79	.054	89	" "
1430	0	360		8.90	26.9	5.81	.054	104	" "
1445	0	380		9.02	26.4	5.79	.054	95	" "
1500	0	400	9.49	8.59	26.4	5.84	.053	100	" "
1515	0	420	9.49	8.32	26.4	5.78	.054	102	" "
1545	0	460	9.48	8.19	26.4	5.77	"	52	Clearing, Sl. Haze
1600	0	480	9.48	8.32	26.3	5.77	"	34	clearer
1615	0	500	9.48	8.58	26.3	5.80	"	11	Clear
1630	0	520	9.48	8.61	26.1	5.78	"	8	"

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-7
Bldg 1937 Site: NAS Pensacola
Date Installed: 10-5-00
Date Developed: 10-25-00
Dev. Method: Pump & surge
Pump Type: Waterra submersible

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 11.24
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1937 Touch 'N' Go NEX Service Sta
Project Number: N0547 CT0140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Strong Petrol. odor DO SAL
1630	-0-	~10	11.53	28.8	5.71	0.123	35	0.33 0.00 Yellowish Brown
1650	-0-	~30	11.65	~~27.0~~ 28.6	5.73	0.128	21	0.25 ~~0.0~~ 0.00 " "
1710	-0-	~40	11.68	29.0	5.69	0.125	11	0.19 0.00
1720	-0-	~50	11.64	28.9	5.69	0.124	10	0.30 0.00

165 gal Total

This office drillers had pumped 2 drums. GJD

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-8
Site: 1932
Date Installed: 10/6/00
Date Developed: —
Dev. Method: —
Pump Type:

Depth to Bottom (ft.): 16 ft
Static Water Level Before (ft.):
Static Water Level After (ft.):
Screen Length (ft.): 10 ft
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary Davis
Drilling Co.: AECS
Project Name: Building 1932
Project Number: N04457 CTO 140

Well not developed due to free Product
DTP = 11.57 ft BTOC DTW = 11.97 ft BTOC

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW 9
Site: Bldg. 1932 NASP
Date Installed: 10-06-00
Date Developed: 10-25-00
Dev. Method: pump & surge
Pump Type: whale - submersible

Depth to Bottom (ft.): 15.70
Static Water Level Before (ft.): 10.71
Static Water Level After (ft.): _____
Screen Length (ft.): 10 ft.
Specific Capacity: _____
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: ABCS
Project Name: Bldg. 1932 Touch N Go Sta. NEX
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Strong Petrol Odor Sheen DO Sat
0930	~.1	~5	10.98	28.4	5.75	0.160	999	0.32 0.00 Dark Brown
0945	~.01	~30	10.99	28.3	5.72	0.158	92	1.41 0.00 Starting to Clear
1030	-0-	~110	10.99	28.1	5.81	0.167	24	0.26 0.00
1055	-0-	~130	10.98	28.1	5.79	0.169	30	0.55 0.00
1120	-0-	~165	10.99	28.0	5.81	0.170	20	0.67 0.00

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-10
Site: Bldg 1932 - NASP
Date Installed: 10-07-00
Date Developed: 10-19-00
Dev. Method: Pump & Surge
Pump Type: Whale Pump - submersible

Depth to Bottom (ft.): ~15.5
Static Water Level Before (ft.): 11.34
Static Water Level After (ft.):
Screen Length (ft.): 10 ft.
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg 1932 - Touch 'N' Go NEX. Srvc. Sta.
Project Number: N0547 CTO 140

	Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO	Sal.	Distinct Petroleum Odor
Rate ~1 gal/30 sec	0845	~0	-0-	11.34	24.7	6.05	0.155	999	1.04	0.00	Chocolate Brown
Surged	0900	-0-	~15	11.55	26.3	6.10	0.149	361	4.06	0.00	Olive brown
	0935	-0-	~50	11.54	26.8	6.10	0.145	98	2.74	0.00	Cloudy-Yellow Brown
	0955	-0-	~70	Battery died - Recharge - will switch to Auto							
Restarted w/ car Battery Rate ~1 gal/40 sec	1040	—	Surged		~~27.1~~	~~6.11~~	~~0.146~~	~~52~~	~~2.86~~	~~0.00~~	~~4.00~~
	1120	-0-	~120	11.63	27.1	6.11	0.146	52	2.88	0.00	
	Stopped pump to break for lunch						~~0.146~~	~~73~~	~~3.43~~	~~0.00~~	
Surged	1335	-0-	~130	11.57	26.9	6.20	0.146	73	3.43	0.00	Yellowish
	1410	-0-	~165	11.61	26.4	6.16	0.146	41	3.11	0.00	"
4th New Drum	1415	-0-	~170	11.63	27.2	6.15	0.145	41	2.89	0.00	"
	1430	-0-	~195	11.67	27.4	6.15	0.147	37	2.90	0.00	"
	1500	-0-	~220	11.67	27.4	6.15	0.147	27	2.80	0.00	"
5th Drum	1520	-0-	~250	11.67	27.3	6.15	0.147	23	2.91	0.00	"
	1545	-0-	~275	11.67	27.4	6.13	0.145	21	2.94	0.00	"
6th Drum	1625	-0-	330	11.65	27.4	6.12	0.146	19	2.74	0.00	Sl. Murky Yellow

Confirmed with Henry Walker That the 10 NTU parameter means stabilized within than range typically down around 50 NTUs

GJD

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

11.45' DTP BTOC

Well: MW-11
Site: Bldg 1932 - NASP
Date Installed: 10-07-00
Date Developed: 10-25-00
Dev. Method: pump & surge
Pump Type: ~~Hand~~ - submersible

Depth to Bottom (ft.): 16.38
Static Water Level Before (ft.): 11.45
Static Water Level After (ft.):
Screen Length (ft.): 10 ft
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Food N' Go NEX Svc. Sta
Project Number: N0547-CT01AD

	Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Free Product 0.01 ft DO SAL
Start	1025	.1	1	12.14	26.5	5.82	0.078	999	0.69 0.00 Dark Brown
AP 1110	~~1010~~	.01	~60	12.33	26.5	5.78	0.099	435	0.92 0.00 Starting to clear
	1200	-0-	~110	12.35	26.7	5.82	0.104	201	0.52 0.00
	1215	-0-	~130	12.36	26.7	5.78	0.106	191	1.98 0.00 Yellowish brown
	1235	-0-	~165	12.43	26.6	5.78	0.108	133	0.38 0.00 " "
	1305	-0-	~190	12.46	26.7	5.78	0.109	103	0.53 0.00 " "
	1330	-0-	~220	12.48	26.7	5.79	0.110	92	0.66 0.00

"Blackwater" from Peat

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-12
Site: Bldg 1932
Date Installed: 10-07-00
Date Developed: 10/8/00
Dev. Method: Pump
Pump Type: Submersible "Whale"

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 10.02
Static Water Level After (ft.):
Screen Length (ft.): 10 ft
Specific Capacity:
Casing ID (in.): 2 = PVC

Responsible Personnel: D. Hartnett
Drilling Co.: AECG
Project Name: NAS Pensacola
Project Number: N0547 CTO 140

Time Begin 1435	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) DTW	TDO	Temperature (Degrees C)	pH	Specific Conductance (Units ms/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1505	1/	40	10.02	7.23	25.6	6.22	.113	>999	~~Dark~~ Tan
1535	0	80	10.02	7.38	26.6	6.23	"	354	Milky Haze
1605	0	120	10.02	7.27	26.8	2.20	"	361	" "
1635	0	140	10.03	7.05	26.8	6.29	.114	35	Much Clearer
1645	0	152	10.03	7.06	"	6.16	"	18	Clear
1655	0	164	10.03	6.90	"	6.20	"	9	"
1705	0	176	10.03	6.73	"	6.20	"	6	"
					23.1				
					23.4				
					23.0				
					22.9				
					23.4				
					23.2				
					23.3				

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-~~11~~ 13 16 DXD
Site: NAS Pensacola
Date Installed: 10-09-00
Date Developed: 10/9/00
Dev. Method: pump & surge
Pump Type: Submersible 'Whale'

Depth to Bottom (ft.): 15.85
Static Water Level Before (ft.): 9.37
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartnett
Drilling Co.: AECS
Project Name: Bldg 1932
Project Number: N0547 CTO 140 ~~DXD~~

Flow = 1 Gal/45 sec.

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) DTW	D.O.	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1330	1/	20	9.54	6.80	22.3	4.86	.120	<999	Very Dark Brown
1400	0	60	9.56	7.23	23.1	5.88	.092	345	Dark Brown
1430	0	100		7.05	22.7	6.02	.094	159	Hazy Brown
1530	0	180	9.55	7.01	22.8	6.10	.098	103	" "
1545	0	200	9.55	6.88	23.1	5.83	.104	72	SL Haze, Brownish
1615	0	240	9.54	7.15	22.9	5.92	.102	49	SL Clearer
1645	0	280	"	7.40	23.1	5.93	.105	32	" "
1715	0	320	"	7.33	23.1	5.94	.104	27	Clear
1730	0	340	"	7.30	23.1	5.96	.104	14	Very Clear
1745	0	360	9.53	7.30	23.1	5.96	.105	8	" "
1800	0	380	9.53	7.28	23.1	5.99	.105	6	" "
End									

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-14
Site: Bldg. 1932 - NAST
Date Installed: 10-04-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: 'Whale' - submersible

Depth to Bottom (ft.): 21.6
Static Water Level Before (ft.): 11.36
Static Water Level After (ft.):
Screen Length (ft.): 10 ft
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Touch 'N' Go NEX Svc. Sta
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO gal
1615	-0-	210	12.02	26.9	6.16	0.432	107	0.78 0.01
1645	-0-	240	12.09	27.0	6.15	0.400	6	0.27 0.01
1700	-0-	255	12.11	27.0	6.15	0.401	5	0.25 0.01
		~165 Total						

This after drillers had pumped 2 drums on 10-10-00

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

BTOC

Well: MW-15
Site: Bldg 1932 - NAS P
Date Installed: 10-04-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: Water - submersible

Depth to Bottom (ft.): 15.85
Static Water Level Before (ft.): 11.54
Static Water Level After (ft.):
Screen Length (ft.): 10-ft.
Specific Capacity:
Casing ID (in.): 2 inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Touch 'N Go NEX Service Sta.
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO Sal Strong Petrol odor Sheen
0700	~.1	1	11.65	26.8	6.13	0.264	999	1.02 0.01 Dark Brown
0810	~0.01	~60	12.07	27.8	6.22	0.249	479	3.07 0.00 Starting to Clear
0830	-0-	~100	12.14	28.6	6.23	0.277	68	0.78 0.01
0900	-0-	~160	12.21	28.9	6.23	0.272	14	0.86 0.01 Clear
0915	-0-	~170	12.22	28.7	6.23	0.275	14	0.82 0.01

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-16
Site: Bldg. 1932 - NASP
Date Installed: 10-08-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: Waterra Grundfos

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 11.25
Static Water Level After (ft.):
Screen Length (ft.): 10 ft
Specific Capacity:
Casing ID (in.): 2 inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg 1932 Touch'N'Go NEX Service Sta.
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Strong Petrol odor DO. Sol.
1520	-0-	~~200~~ 250	12.95	27.1	6.15	0.162	34	3.18 0.00
1541	-0-	~~320~~ 270	12.10	27.1	6.10	0.169	73	0.50 0.00

4 Drums
+ 1 Drum This

AJD

Drillers had previously pumped 4 drums on 10-24-00

GJD

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-17
Site: NAS Pensacola
Date Installed: 10-09-00
Date Developed: 10/10/00
Dev. Method: Pump & Surge
Pump Type: Submersible 'Whale'

Depth to Bottom (ft.): 15.87
Static Water Level Before (ft.): 10.66
Static Water Level After (ft.): 10.66
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartrell
Drilling Co.: AECS
Project Name: Bldg 1932
Project Number: N0542

Flow = 1 Gal/45 sec.

Time Begin 0940	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Initially Dark Brown
1000	.1	25		22.4	5.68	.139	212	Cloudy, Brownish
1045	0	85	10.87	24.1	6.24	.098	186	" "
1130	0	145	10.87	24.5	6.37	.105	83	SL Cloudy/Haze, Brown
1145	0	165		25.2	6.44	.107	60	" "
1345	0	325		24.7	6.51	.105	29	Becoming clear
1415	0	365	10.86	25.2	6.51	.103	26	" "
1500	0	425		25.4	6.51	.102	12	Very Clear
1600	0	505	10.86	25.5	6.64	.099	10	" "
1630	0	545	10.86	25.5	6.59	.101	9	" "
End.	Ø							

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-18
Site: Building 1932
Date Installed: 10/9/00
Date Developed: —
Dev. Method: —
Pump Type: —

Depth to Bottom (ft.): 16 ft
Static Water Level Before (ft.): _____
Static Water Level After (ft.): _____
Screen Length (ft.): 10 ft
Specific Capacity: _____
Casing ID (in.): 2 in

Responsible Personnel: Gary Davis
Drilling Co.: AECS
Project Name: Building 1932
Project Number: CTO 140 N0547

well not developed due to free product
DTP = 11.84 ft BTOC DTW = 11.85 ft BTOC

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-19
Site: Bldg 1932 - NASP
Date Installed: 10-09-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: Whale - Submersible

Depth to Bottom (ft.): ~16
Static Water Level Before (ft.): 11.22
Static Water Level After (ft.):
Screen Length (ft.): 10 ft.
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Touch'N'Go NEX Serv. Sta.
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units µS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO Sal.
1500	-0-	~40	11.22	29.1	5.96	0.174	26	Strong Petrol odor — Sheen 0.25 0.00
1520	-0-	55	11.74	29.1	5.97	0.173	24	0.23 0.00 clear

Drillers had previously pumped 3 drums on 10-24-00

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-20
Site: Bldg 1932 NASP
Date Installed: 10-09-00
Date Developed: 10-25-00
Dev. Method: Pump & surge
Pump Type: Whale Submersible

Depth to Bottom (ft.): 16.20
Static Water Level Before (ft.): 11.69
Static Water Level After (ft.):
Screen Length (ft.): 10 ft.
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg 1932 Touch N Go NEX Service Sta.
Project Number: N0547 CTO140

	Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units µS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO Sal. Strong Petrol. Odor Sheen
	0700	.2	1	11.69	27.0	5.73	0.246	999	0.14 0.00 Dark Brown
Start	0745	0.01	~15	12.18	28.1	5.81	0.256	362	3.06 0.00
	0815	-.01-	~60	12.49	28.3	5.89	0.256	73	0.66 0.01 Clearing
	0915	-0-	~85	12.08	28.3	5.91	0.259	46	0.24 0.01 greenish yellow
	0932	-0-	~110	12.23	28.3	5.90	0.260	43	0.08 0.01 " "
	0950	-0-	~140	12.25	28.5	5.91	0.253	35	0.09 0.01
	1010	-0-	~165	12.26	28.5	5.92	0.258	31	0.52 0.01

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

0.005 ft. Free Product.

Well: MW-21
Site: 19.32
Date Installed: 10-10-00
Date Developed: 11/2/00
Dev. Method: Pump & Surge
Pump Type: Submersible

Depth to Bottom (ft.): 15.88
Static Water Level Before (ft.): 11.785
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: D. Hartnett, G. Davis
Drilling Co.: AECS
Project Name: Bldg 19.32 Touch N' Go NEX Svc. Sta.
Project Number: ~~ND576~~ ND547 CTO 140 ~~RAP~~

0850 calibrate Horiba U-10
Pine Env. #954

~1 gal/50 sec.

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO	SAL	
Start 0855										Strong Petrol. Odor
0900	~.1	25	12.05	28.1	5.50	0.189	83	0.865	0.00	Dark chocolate brown
0920	2.01	~25	12.10	28.6	5.60	0.183	28	0.35	0.00	Clear
0930	7.01	~35	12.09	28.7	5.67	.180	26	0.46	0.00	Sl. Tan Haze
0945	0	~55	12.09	28.7	5.69	.178	13	0.77	0.00	" " "
1010	0	~70	12.10	28.8	5.72	.182	13	1.04	0.00	" " "
1020	0	~85	12.12	28.7	5.72	.181	12	1.01	0.00	" " "

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-22
NAPS Site: Touch & Go Bldg 1932
Date Installed: 10-10-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: Whale - Submersible

Depth to Bottom (ft.): 16'
Static Water Level Before (ft.): 11.90
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2 inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg 1932 Touch'N'Go NEX Sub. Sta.
Project Number: N0547 CTO 140

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) 12.20	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Strong petro. odor, sheen DO	Sal	Clear Yellowish brown
15:37	~0	~20		27.7	5.76	0.178	80	0.79	0.00	
16:05	~0	~40	12.62	27.7	5.70	0.180	70	2.25	0.00	
16:25	~0	~55	12.65	27.7	5.72	0.181	62	2.05	0.00	"

220 Total

This well was previously pumped 3 times on 10-23-00

GJD

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-23
Site: TouchnGo
Date Installed: 10-10-00
Date Developed: 10-25-00
Dev. Method: Pump & Surge
Pump Type: Whale submersible

Depth to Bottom (ft.): 16'
Static Water Level Before (ft.): 12.55
Static Water Level After (ft.):
Screen Length (ft.): 10 ft.
Specific Capacity:
Casing ID (in.): 2 inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 TouchNGo NEX Sroc. Sta.
Project Number: N0SA7 CTO14D

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO	SGL
14:30	~.0	30	12.55	29.1	5.51	0.194	64	3.55	0.00 cloudy
15:30	~.0	55	11.60	28.8	5.48	0.198	52	.85	0.00 slight odor
	~165 total								

This after drillers previously pumped 2 drums on 10-24-00

NJB

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-24D
Site: Bldg. 1932 NASP
Date Installed: 10-11-00
Date Developed: 10-20-00
Dev. Method: Pump + Surge
Pump Type: "Whale"-Submersible

Depth to Bottom (ft.): ~~~39.5~~ 39.66 BTOC
Static Water Level Before (ft.): 11.90
Static Water Level After (ft.):
Screen Length (ft.): 5 ft
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Touch'N'Go NEX Serv. Sta.
Project Number: N0547 CTO 140

~6 gal/5 min

~1 gal/40 sec.

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units µS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) mg/l DO	SAL	
Start 1500										
1515	~~1500~~ ~0.10	15	12.31	25.8	5.51	0.055	910	0.58	0.00	Brackish odor
1545	0.01	~55	12.37	25.7	5.54	0.053	283	0.03	0.00	Dark Chocolate Brown
1615	0.01	~85	12.39	25.8	5.50	0.055	331	0.21	0.00	Clearing olive Brown
1730	0.01	~120	12.39	25.7	5.46	0.054	282	0.09	0.00	" " "
1430	-0-	~150	11.91	25.8	5.55	0.052	319	0.51	0.00	" " "
1545	-0-	~240	12.39	25.7	5.48	0.051	222	0.38	0.00	" " "
1630	-0-	~290	12.38	25.7	5.48	0.051	209	0.63	0.00	" " "
1700	Let fully charged portable battery operate overnight until charge was extinguished								~250 gallons	
0830	-0-	~440	12.47	25.5	5.20	0.053	91	0.13	0.00	olive brown Tea appearance
0930	-0-	~500	12.47	25.6	5.26	0.054	81	0.03	0.00	" " "
0945	-0-	~515	12.47	25.6	5.29	0.054	74	0.13	0.00	" " "

Stopped for the day

Start again 10-21-00

Start 10-22-00

Start 10-23-00

Note: Tannic Acid from Peat layers makes "blackwater" (appearance of tea)

5 gal Bucket left overnight has not settled at all.

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MW-25D
Site: Bldg. 1932 NASP
Date Installed: 10-18-00
Date Developed: 10-22-00
Dev. Method: Pump & Surge
Pump Type: "Whale" - Submersible

Depth to Bottom (ft.): ~40
Static Water Level Before (ft.): 12.49
Static Water Level After (ft.):
Screen Length (ft.): 5 ft.
Specific Capacity:
Casing ID (in.): 2-inch

Responsible Personnel: Gary J. Davis
Drilling Co.: AECS
Project Name: Bldg. 1932 Tonal'N'Go NEX Grvr. Sta.
Project Number: N0547 CTO 140

	Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO	SAL	
~1gal/40sec	0900	~0.1	—	12.40	26.0 Hgb ~~25.4~~	5.0	0.047	999	0.52	0.00	Brackish odor
	1145	0.01	~200gal	12.98	25.4	4.99	0.047	317	0.48	0.00	Dark chocolate brown
Stop Pump	1300	-0-	~300gal	13.02	25.1	4.87	0.045	35	0.21	0.00	Cleaning - Olive brown
Start	1400	-0-	~300	13.01	25.1	4.87	0.045	46	0.07	0.00	appearance of lt. tea
	1500	-0-	~360	13.02	25.1	4.87	0.045	44	0.07	0.00	lt. olive " " "
				Complete							
				Hgb							

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: Deep FFF
Site: Former Fuel Farm
Date Installed: 9/13/00
Date Developed: 10-24-00/11/2/00
Dev. Method: Submersible
Pump Type: Whale
Depth to Bottom (ft.): ~76.0 After / 75.0 Before BTOC
Static Water Level Before (ft.): 27.78
Static Water Level After (ft.):
Screen Length (ft.): ~~10~~ 5'
Specific Capacity:
Casing ID (in.): 2"
Responsible Personnel: G. Davis, D. Hartnett
Drilling Co.: AECN
Project Name: Sherman Field Fuel Farm
Project Number: No516

Rate ~2 gal/1 min 20 sec

"Blackwater" Brackish Odor

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)	
10-24-00								Dark chocolate brown from bottom. Clear above	
0800	~½ ft	~250?	37.85	22.8	5.37	0.052	496	0.55	0.00 No Odor of Petroleum
0910	~.1?	~310	40.88	23.2	5.58	0.054	803	0.69	0.00 lots of white silt.
Stopped. After clearing most of the sediment from bottom - pulled pump up approx. 10'									
Start: 0945	~.1?	~320	39.23	23.1	5.54	0.055	390	1.32	0.00 olive brown like tea
1010	When the pump was let back down it was deeper than the hose & wire so I'm going to see about extensions								Starting to clear
Start 1200	~0	Back on bottom after adding hose & electrical extensions							
1230	-0.01-	~410	36.08	23.2	5.61	0.055	672	0.66	0.00 Very dark brown much silt.
1345	-0.01-	~425	36.89	23.2	5.44	0.051	320	0.48	0.00 Starting to clear from bottom
1415	-0.01-	~450	36.52	23.2	5.56	0.054	590	0.53	0.00 Raised pump 10 ft.
1430	-0.01-	~460	36.53	23.2	5.53	0.055	573	0.01	0.00 " " ~20 ft from Bottom
1445	-0.01-	~470	36.53	23.2	5.53	0.055	553	0.04	0.00 Brown like tea
Stopped 11/2/00 1155	~.10	~480	31.05	24.4	5.37	.074	141	.09	0.00
1230	~.01	~495	32.30	23.9	5.31	0.066	164	0.20	0.00 Brown/Turquoise Tint
1255	"	~540	33.61	24.0	5.33	.065	126	0.05	0.00 " " "
1500	"	~570	33.60	23.8	5.33	0.068	196	0.22	0.00 " " "
1545	"	~600	33.59	23.2	5.32	0.066	144	0.35	0.00 " " "
1630	"	~620	33.58	22.8	5.31	0.066	137	0.34	0.00

(Continued) Begin 1145

Dan has worked on developing before but not complete. Pumped w/ portable battery overnight on 10-23-00 (~250 gallons)

APPENDIX D

LABORATORY ANALYTICAL REPORTS

Tetra Tech NUS, Inc. **Internal Correspondence**

TO: **Mr. Gerald Walker** **DATE:** **October 20, 2000**

FROM: **William Howard Engle** **CC:** **File**

SUBJECT: **Organic Data Validation – VOC, SVOC, PAH, TRPH, Metals, and TOC**
CTO140 – NAS Pensacola, Building 1932
SDG 25180

SAMPLES: **8/Solid**

NASP1932 DUP-1	**NASP1932 SB-1 10-14'**	**NASP1932 SB-11**
NASP1932 SB-3 12-14'	**NASP932 SB-4 10-11.5'**	**NASP1932 SB-5**
NASP1932 SB-6 10-12'	**NASP1932 SB-7 10-14'**	

1/Aqueous

TB-080800

OVERVIEW

The sample set for CTO140, SDG 25180; Naval Air Station Pensacola, Building 1932, Pensacola, Florida consists of eight (8) solid environmental samples and one (1) trip blank. The environmental samples were analyzed for Volatile Organic Carbons (VOCs), Semi-Volatile Organic Carbons (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Residual Petroleum Hydrocarbons (TRPHs), select metals. Samples NASP1932 SB-4 10-11.5' and NASP1932 SB-6 10-12' were also analyzed for Total Organic Carbon (TOC). The trip blank was analyzed for VOCs, only. A duplicate pair was included in this SDG: NASP1932 SB-1 10-14' / NASP1932 DUP-1.

The samples were collected by Tetra Tech NUS on August 8, 2000 and analyzed by Accura Analytical Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8260B (VOCs), SW-846 method 8270C (SVOCs), SW-846 method 8310 (PAHs), FL-PRO (TRPHs), and SW-846 6010B and 7471A (Metals) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
  • Holding Times
* • Initial/continuing calibration standards
  • Laboratory method/field quality control blank results
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Supporting documentation is presented in Appendix C. Qualified analytical results are presented in Appendix A. The original laboratory data is contained in Appendix B.

Volatile Fraction

The %R for 2-CEVE, acrolein, acrylonitrile, and chloromethane were outside the control limits for the soil MS/MSD analysis. No action was taken since the sample spiked was not from this project.

The %R for 2-CEVE, acrolein, and chloromethane were outside the control limits for the aqueous LCS analysis. No action was taken for acrolein and chloromethane since the %R was high and no positive result was reported. 2-CEVE was qualified as estimated "J" since the %R was low.

The %R for acrolein was outside the control limits for the soil LCS analysis. No action was taken for acrolein since the %R was high and no positive result was reported.

Semi-Volatile Fraction

The samples were initially analyzed for SVOCs due to the samples being logged in under a different project. This error was not detected until the SDG package was received by Howard Engle on 9/26/00. The lab was informed to re-extract the samples even though the extraction hold-time had passed. All of the SVOC results will be qualified as estimted "J" due to holding time noncompliance. Any positive result should be considered biased "low"

Several %Rs in the MS/MSD and LCS analyses were outside the control limits. No action was taken since all the results have already been qualified as estimated due to holding time noncompliance.

Polycylcic Aromatic Hydrocarbon Fraction

All quality control criteria were met for this fraction.

Total Residual Petroleum Fraction

The %R for TRPH in the LCS analysis was outside the control limit. The %R for the MS/MSD analysis was acceptable, therefore no action was taken.

Lab Blank Analysis

Samples Affected: NASP1932 SB-4 10-11.5'
NASP1932 SB-6 10-12'

	Maximum Concentration (mg/kg)	Action Limit (mg/kg)
TRPH	11J	55

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in continuing calibration blank. Dilution factors, percent solid, and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

Metals Fraction

All quality control criteria were met for this fraction.

Lab Blank Analysis

Samples Affected: NASP1932 SB-4 10-11.5'
NASP1932 SB-6 10-12'

Analyte	Maximum Concentration (mg/kg)	Action Limit (mg/kg)
Arsenic	2.6	13

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in continuing calibration blank. Dilution factors, percent solid, and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

Total Organic Carbon Fraction

All quality control criteria were met for this fraction.

Duplicate Sample Analysis

	NASP1932 SB-1 10-14' (ug/kg)	NASP1932 DUP-1 (ug/kg)	%D
Ethylbenzene	810	330U	200
Xylenes	1100	670U	200
1-methylnaphthalene	12000	240	192
2-methylnaphthalene	17000	340	192
acenaphthene	1800	45J	190
anthracene	1000	77U	200
chrysene	220J	13J	178
fluorene	2900	59J	192
fluoranthene	280J	77U	200
naphthalene	4700	51J	223
phenanthrene	4200	55J	195
pyrene	860	35J	176
TRPH	6500 mg/kg	690 mg/kg	162
chromium	7.4U mg/kg	1.6 mg/kg	200

Executive Summary

Laboratory performance: 2-CEVE was qualified as estimated due to LCS noncompliance. TRPH and Arsenic were qualified as estimated in several samples due to lab blank contamination. The several positive results in the duplicate and associated sample were qualified due to field duplicate imprecision.

Other factors affecting data quality: The samples were extracted outside of the extraction hold time for SVOCs. All SVOC data was qualified due to hold time noncompliance. The SVOC data should be considered biased "low"

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

_____

William Howard Engle

Project Chemist
Tetra Tech NUS, Inc.

_____

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech NUS, Inc.

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B – Results as reported by the laboratory
3. Appendix C – Supporting Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD 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 - Include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

UJ - Nondetected result is considered to be estimated as a result of technical noncompliances.

APPENDIX A

Qualified Analytical Results

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	14.0 %			5.0 %			18.0 %			21.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:	NASP1932 SB-1 10-14											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	330	U		290	U		5.6	U		300	U	
1,1,2,2-TETRACHLOROETHANE	330	U		290	U		5.6	U		300	U	
1,1,2-TRICHLOROETHANE	330	U		290	U		5.8	U		300	U	
1,1-DICHLOROETHANE	330	U		290	U		5.8	U		300	U	
1,1-DICHLOROETHENE	330	U		290	U		5.8	U		300	U	
1,2-DICHLOROETHANE	330	U		290	U		5.8	U		300	U	
1,2-DICHLOROPROPANE	330	U		290	U		5.8	U		300	U	
1,2-DICHLOROPROPENE	330	U		290	U		5.8	U		300	U	
2-CHLOROETHYL VINYL ETHER	3300	UJ	E	2900	UJ	E	58	U		3000	UJ	E
ACROLEIN	3300	U		2900	U		58	U		3000	U	
ACRYLONITRILE	3300	U		2900	U		58	U		3000	U	
BENZENE	330	U		290	U		5.8	U		300	U	
BROMODICHLOROMETHANE	330	U		290	U		5.8	U		300	U	
BROMOFORM	330	U		290	U		5.8	U		300	U	
BROMOMETHANE	330	U		290	U		5.8	U		300	U	
CARBON TETRACHLORIDE	330	U		290	U		5.8	U		300	U	
CHLOROBENZENE	330	U		290	U		5.8	U		300	U	
CHLOROFORM	330	U		290	U		5.8	U		300	U	
CHLOROMETHANE	330	U		290	U		5.8	U		300	U	
ETHYLBENZENE	330	UJ	G	810	UJ	G	220			970		
METHYL TERT-BUTYL ETHER	3300	U		2900	U		58	U		3000	U	
METHYLENE CHLORIDE	330	U		290	U		5.8	U		300	U	
TETRACHLOROETHENE	330	U		290	U		5.8	U		300	U	
TOLUENE	330	U		290	U		5.8	U		300	U	
TOTAL XYLENES	670	U		1100			12	U		600	U	
TRANS-1,2-DICHLOROETHENE	330	U		290	U		5.8	U		300	U	
TRICHLOROETHENE	330	U		290	U		5.8	U		300	U	
VINYL CHLORIDE	330	U		290	U		5.8	U		300	U	

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	5.0 %			6.0 %			11.0 %			4.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	5.4	U		290	U		5.5	U		230	U	
1,1,2,2-TETRACHLOROETHANE	5.4	U		290	U		5.5	U		230	U	
1,1,2-TRICHLOROETHANE	5.4	U		290	U		5.5	U		230	U	
1,1-DICHLOROETHANE	5.4	U		290	U		5.5	U		230	U	
1,1-DICHLOROETHENE	5.4	U		290	U		5.5	U		230	U	
1,2-DICHLOROETHANE	5.4	U		290	U		5.5	U		230	U	
1,2-DICHLOROPROPANE	5.4	U		290	U		5.5	U		230	U	
1,2-DICHLOROPROPENE	5.4	U		290	U		5.5	U		230	U	
2-CHLOROETHYL VINYL ETHER	54	U		2900	UJ	E	55	U		2300	UJ	E
ACROLEIN	54	U		2900	U		55	U		2300	U	
ACRYLONITRILE	54	U		2900	U		55	U		2300	U	
BENZENE	5.4	U		290	U		0.51	U		230	U	
BROMODICHLOROMETHANE	5.4	U		290	U		5.5	U		230	U	
BROMOFORM	5.4	U		290	U		5.5	U		230	U	
BROMOMETHANE	5.4	U		290	U		5.5	U		230	U	
CARBON TETRACHLORIDE	5.4	U		290	U		5.5	U		230	U	
CHLOROBENZENE	5.4	U		290	U		5.5	U		230	U	
CHLOROFORM	5.4	U		290	U		5.5	U		230	U	
CHLOROMETHANE	5.4	U		290	U		5.5	U		230	U	
ETHYLBENZENE	5.4	U		290	U		5.5	U		1200		
METHYL TERT-BUTYL ETHER	54	U		2900	U		55	U		2300	U	
METHYLENE CHLORIDE	5.4	U		290	U		5.5	U		230	U	
TETRACHLOROETHENE	5.4	U		290	U		5.5	U		230	U	
TOLUENE	5.4	U		290	U		5.5	U		230	U	
TOTAL XYLENES	11	U		580	U		11	U		320	J	P
TRANS-1,2-DICHLOROETHENE	5.4	U		290	U		5.5	U		230	U	
TRICHLOROETHENE	5.4	U		290	U		5.5	U		230	U	
VINYL CHLORIDE	5.4	U		290	U		5.5	U		230	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 25180

SAMPLE NUMBER:	TB-060800										
SAMPLE DATE:	08/08/00			/ /			/ /			/ /		
LABORATORY ID:	AB96901										
QC_TYPE:	NORMAL										
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L										
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U										
1,1,2,2-TETRACHLOROETHANE	1	U										
1,1,2-TRICHLOROETHANE	1	U										
1,1-DICHLOROETHANE	1	U										
1,1-DICHLOROETHENE	1	U										
1,2-DICHLOROETHANE	1	U										
1,2-DICHLOROPROPANE	1	U										
1,2-DICHLOROPROPENE	1	U										
2-CHLOROETHYL VINYL ETHER	10	UJ	E									
ACROLEIN	10	U										
ACRYLONITRILE	10	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	1	U										
BROMOFORM	1	U										
BROMOMETHANE	1	U										
CARBON TETRACHLORIDE	1	U										
CHLOROBENZENE	1	U										
CHLOROFORM	1	U										
CHLOROMETHANE	1	U										
ETHYLBENZENE	1	U										
METHYL TERT-BUTYL ETHER	10	U										
METHYLENE CHLORIDE	0.9	J										
TETRACHLOROETHENE	1	U										
TOLUENE	1	U										
TOTAL XYLENES	2	U										
TRANS-1,2-DICHLOROETHENE	1	U										
TRICHLOROETHENE	1	U										
VINYL CHLORIDE	1	U										

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:	NASP1932 SB-1 10-14											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
1,2-DICHLOROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
1,3-DICHLOROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
1,4-DICHLOROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2,4,5-TRICHLOROPHENOL	390	U	JH	3500	U	JH	2000	U	JH	2100	U	JH
2,4,6-TRICHLOROPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2,4-DICHLOROPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2,4-DIMETHYLPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2,4-DINITROPHENOL	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
2,4-DINITROTOLUENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2,6-DINITROTOLUENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2-CHLORONAPHTHALENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2-CHLOROPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2-METHYLPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
2-NITROANILINE	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
2-NITROPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
3,3'-DICHLOROBENZIDINE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
3-METHYLPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
3-NITROANILINE	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
4,6-DINITRO-2-METHYLPHENOL	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
4-BROMOPHENYL PHENYL ETHER	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
4-CHLORO-3-METHYLPHENOL	1500	U	JH	14000	U	JH	7800	U	JH	8200	U	JH
4-CHLOROANILINE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
4-CHLOROPHENYL PHENYL ETHER	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
4-METHYLPHENOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
4-NITROANILINE	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
4-NITROPHENOL	1900	U	JH	17000	U	JH	9600	U	JH	10000	U	JH
BENZOIC ACID	1900	U	JH	17000	U	JH	9600	U	JH	10000	U	JH
BENZYL ALCOHOL	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
BIS(2-CHLOROETHOXY)METHANE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
BIS(2-CHLOROETHYL)ETHER	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
BIS(2-CHLOROISOPROPYL)ETHER	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:	NASP1932 SB-1 10-14											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BIS(2-ETHYLHEXYL)PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
BUTYL BENZYL PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
CARBAZOLE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
DI-N-BUTYL PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
DI-N-OCTYL PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
DIBENZOFURAN	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
DIETHYL PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
DIMETHYL PHTHALATE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
HEXACHLOROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
HEXACHLOROBUTADIENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
HEXACHLOROCYCLOPENTADIENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
HEXACHLOROETHANE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
N-NITROSO-DI-N-PROPYLAMINE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
N-NITROSODIPHENYLAMINE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
NITROBENZENE	770	U	JH	6900	U	JH	4000	U	JH	4200	U	JH
PENTACHLOROPHENOL	3900	U	JH	35000	U	JH	20000	U	JH	21000	U	JH
PHENOL	770	U	JH	820	J	JH	4000	U	JH	4200	U	JH

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
1,2-DICHLOROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
1,3-DICHLOROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
1,4-DICHLOROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2,4,5-TRICHLOROPHENOL	350	U	JH	350	U	JH	370	U	JH	3500	U	JH
2,4,6-TRICHLOROPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2,4-DICHLOROPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2,4-DIMETHYLPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2,4-DINITROPHENOL	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
2,4-DINITROTOLUENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2,6-DINITROTOLUENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2-CHLORONAPHTHALENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2-CHLOROPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2-METHYLPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
2-NITROANILINE	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
2-NITROPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
3,3'-DICHLOROBENZIDINE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
3-METHYLPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
3-NITROANILINE	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
4,6-DINITRO-2-METHYLPHENOL	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
4-BROMOPHENYL PHENYL ETHER	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
4-CHLORO-3-METHYLPHENOL	1400	U	JH	1400	U	JH	1400	U	JH	14000	U	JH
4-CHLOROANILINE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
4-CHLOROPHENYL PHENYL ETHER	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
4-METHYLPHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
4-NITROANILINE	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
4-NITROPHENOL	1700	U	JH	1700	U	JH	1800	U	JH	17000	U	JH
BENZOIC ACID	1700	U	JH	1700	U	JH	1800	U	JH	17000	U	JH
BENZYL ALCOHOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
BIS(2-CHLOROETHOXY)METHANE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
BIS(2-CHLOROETHYL)ETHER	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
BIS(2-CHLOROISOPROPYL)ETHER	690	U	JH	690	U	JH	730	U	JH	6900	U	JH

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BIS(2-ETHYLHEXYL)PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
BUTYL BENZYL PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
CARBAZOLE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
DI-N-BUTYL PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
DI-N-OCTYL PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
DIBENZOFURAN	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
DIETHYL PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
DIMETHYL PHTHALATE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
HEXACHLOROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
HEXACHLOROBUTADIENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
HEXACHLOROCYCLOPENTADIENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
HEXACHLOROETHANE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
N-NITROSO-DI-N-PROPYLAMINE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
N-NITROSODIPHENYLAMINE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
NITROBENZENE	690	U	JH	690	U	JH	730	U	JH	6900	U	JH
PENTACHLOROPHENOL	3500	U	JH	3500	U	JH	3700	U	JH	35000	U	JH
PHENOL	690	U	JH	690	U	JH	730	U	JH	6900	U	JH

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	06/06/00			06/06/00			06/06/00			06/06/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	240	J	G	12000	J	G	54000			4400		
2-METHYLNAPHTHALENE	340	J	G	17000	J	G	78000			6300		
ACENAPHTHENE	45	J	P	1800	J	G	4900			590		
ACENAPHTHYLENE	77	U		700	J	G	410	U		420	U	
ANTHRACENE	77	U		1000	U		3000			380	J	P
BENZO(A)ANTHRACENE	77	U		700	J	G	280	J	P	420	U	
BENZO(A)PYRENE	77	U		700	U		170	J	P	420	U	
BENZO(B)FLUORANTHENE	77	U		700	U		180	J	P	420	U	
BENZO(G,H,I)PERYLENE	77	U		700	U		47	J	P	420	U	
BENZO(K)FLUORANTHENE	77	U		700	U		130	J	P	420	U	
CHRYSENE	13	J	PG	220	J	PG	370	J	P	420	U	
DIBENZO(A,H)ANTHRACENE	77	U		700	U		410	U		420	U	
FLUORANTHENE	77	UJ	G	280	J	PG	1100			420	U	
FLUORENE	59	J	G	2900	J	G	10000			1100		
INDENO(1,2,3-CD)PYRENE	77	U		700	U		51	J	P	420	U	
NAPHTHALENE	51	J	P	4700	J	G	2100			1400		
PHENANTHRENE	55	J	P	4200	J	G	17000			1400		
PYRENE	35	J	P	880	J	G	2000			210	J	P

TETRA TECH NUS INC. , Fax:4129214040 Jun 21 2001 12:46 P.02

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	100.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	70	U		3000			75	U		14000		
2-METHYLNAPHTHALENE	70	U		420 4200			75	U		19000		
ACENAPHTHENE	70	U		460			75	U		1500		
ACENAPHTHYLENE	70	U		71	U		75	U		690	U	
ANTHRACENE	70	U		450			75	U		900		
BENZO(A)ANTHRACENE	70	U		71	U		75	U		690	U	
BENZO(A)PYRENE	70	U		71	U		75	U		690	U	
BENZO(B)FLUORANTHENE	70	U		71	U		75	U		690	U	
BENZO(G,H,I)PERYLENE	70	U		71	U		75	U		690	U	
BENZO(K)FLUORANTHENE	70	U		71	U		75	U		690	U	
CHRYSENE	70	U		36	J	P	75	U		150	J	P
DIBENZO(A,H)ANTHRACENE	70	U		71	U		75	U		690	U	
FLUORANTHENE	70	U		45	J	P	75	U		210	J	P
FLUORENE	70	U		1100	U		75	U		2800		
INDENO(1,2,3-CD)PYRENE	70	U		71	U		75	U		690	U	
NAPHTHALENE	70	U		430			75	U		4700		
PHENANTHRENE	70	U		1300			75	U		4200		
PYRENE	70	U		230			75	U		540	J	P

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	14.0 %			5.0 %			18.0 %			21.0 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:	NASP1932 SB-1 10-14											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	680	J	G	6500	J	G	14000			2700		

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	5.0 %			6.0 %			11.0 %			4.0 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	10	U	A	3100			19	U	A	4700		

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 DUP-1			NASP1932 SB-1 10-14			NASP1932 SB-11			NASP1932 SB-3 12-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96896			AB96900			AB96898			AB96897		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	14.0 %			5.0 %			18.0 %			21.0 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:	NASP1932 SB-1 10-14											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	3.2	U	A	63	U		73	U		76	U	
BARIUM							0.74	J	P			
CADMIUM	4.7	U		4.2	U		4.9	U		5.1	U	
CHROMIUM	1.6	J	PG	7.4	UJ	G	0.82	J	P	8.9	U	
LEAD	55	U		53	U		61	U		63	U	
MERCURY							0.1	U				
SELENIUM							98	U				
SILVER							8.5	U				

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'			NASP1932 SB-5			NASP1932 SB-6 10-12'			NASP1932 SB-7 10-14'		
SAMPLE DATE:	08/08/00			08/08/00			08/08/00			08/08/00		
LABORATORY ID:	AB96893			AB96894			AB96895			AB96899		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	5.0 %			6.0 %			11.0 %			4.0 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	63	U		64	U		67	U		63	U	
BARIUM										5.2	U	
CADMIUM	4.2	U		4.3	U		4.5	U		4.2	U	
CHROMIUM	0.81	J	P	1.5	J	P	0.93	J	P	7.3	U	
LEAD	53	U		53	U		56	U		52	U	
MERCURY										0.1	U	
SELENIUM										83	U	
SILVER										7.3	U	

CTO140-NAS PENSACOLA
SOIL DATA
AAL
SDG: 25180

SAMPLE NUMBER:	NASP1932 SB-4 10-11.5'	NASP1932 SB-6 10-12'	/ /	/ /
SAMPLE DATE:	08/08/00	08/08/00		
LABORATORY ID:	AB96893	AB96895		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	5.0 %	11.0 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANIC PARAMETERS												
TOTAL ORGANIC CARBON(MG/KG)	46900			244000								

25180

HOLDING TIME
09/25/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
UG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/L	TB-080800	AB96901	NORMAL	25180	OV	08/08/00	08/09/00	08/09/00	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	TOC	08/08/00	08/28/00	08/29/00	20	1	21
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	TOC	08/08/00	08/28/00	08/29/00	20	1	21
MG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	TPH	08/08/00	08/11/00	08/12/00	3	1	4
MG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	TPH	08/08/00	08/11/00	08/14/00	3	3	6
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	TPH	08/08/00	08/11/00	08/12/00	3	1	4
MG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7

25180

HOLDING TIME
09/25/00

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
MG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	M	08/08/00	08/14/00	08/15/00	6	1	7
UG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	OS	08/08/00	08/15/00	08/16/00	7	1	8
UG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	OV	08/08/00	08/10/00	08/10/00	2	0	2
UG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	OV	08/08/00	08/11/00	08/11/00	3	0	3
UG/L	TB-080800	AB96901	NORMAL	25180	OV	08/08/00	08/09/00	08/09/00	1	0	1

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	TOC	08/08/00	08/28/00	08/29/00	20	1	21
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	TOC	08/08/00	08/28/00	08/29/00	20	1	21
MG/KG	NASP1932 DUP-1	AB96896	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-1 10-14	AB96900	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-11	AB96898	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-3 12-14'	AB96897	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7
MG/KG	NASP1932 SB-4 10-11.5'	AB96893	NORMAL	25180	TPH	08/08/00	08/11/00	08/12/00	3	1	4
MG/KG	NASP1932 SB-5	AB96894	NORMAL	25180	TPH	08/08/00	08/11/00	08/14/00	3	3	6
MG/KG	NASP1932 SB-6 10-12'	AB96895	NORMAL	25180	TPH	08/08/00	08/11/00	08/12/00	3	1	4
MG/KG	NASP1932 SB-7 10-14'	AB96899	NORMAL	25180	TPH	08/08/00	08/11/00	08/15/00	3	4	7

APPENDIX B

Results as Reported by the Laboratory

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96900 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-1 10-14

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	95	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Cadmium	<RDL	4.2
Chromium	<RDL	7.4
Lead	<RDL	53

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	12000	700
2-Methylnaphthalene	17000	700
Acenaphthene	1800	700
Acenaphthylene	<RDL	700
Anthracene	1000	700
Benzo(a)anthracene	<RDL	700
Benzo(a)pyrene	<RDL	700
Benzo(b)fluoranthene	<RDL	700
Benzo(g,h,i)perylene	<RDL	700
Benzo(k)fluoranthene	<RDL	700
Chrysene	220J	700
Dibenz(a,h)anthracene	<RDL	700
Fluoranthene	280J	700
Fluorene	2900	700
Indeno(1,2,3-cd)pyrene	<RDL	700

Naphthalene	4700	700
Phenanthrene	4200	700
Pyrene	860	700

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	6500	1600

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	290
1,1,2,2-Tetrachloroethane	<RDL	290
1,1,2-Trichloroethane	<RDL	290
1,1-Dichloroethane	<RDL	290
1,1-Dichloroethene	<RDL	290
1,2-Dichloroethane	<RDL	290
1,2-Dichloropropane	<RDL	290
1,2-Dichloropropene	<RDL	290
2-Chloroethylvinyl ether	<RDL	2900
Acrolein	<RDL	2900
Acrylonitrile	<RDL	2900
Benzene	<RDL	290
Bromodichloromethane	<RDL	290
Bromoform	<RDL	290
Bromomethane	<RDL	290
Carbon tetrachloride	<RDL	290
Chlorobenzene	<RDL	290
Chloroform	<RDL	290
Chloromethane	<RDL	290
Ethylbenzene	810	290
Methyl Bromide	<RDL	290
Methyl Chloride	<RDL	290
Methyl-tert-butyl ether (MTBE)	<RDL	2900
Methylene chloride	<RDL	290
Tetrachloroethene	<RDL	290
Toluene	<RDL	290
trans-1,2-Dichloroethene	<RDL	290
Trichloroethene	<RDL	290
Vinyl chloride	<RDL	290
Xylenes (Total)	1100	580

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits

2-Fluorobiphenyl	(Range 50-103)	99
Nitrobenzene-d5	(Range 43-104)	136
p-Terphenyl-d14	(Range 44-125)	95

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	85	
4-Bromofluorobenzene (Range 80-131)	99	
Toluene-d8 (Range 82-119)	98	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96896 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 08/08/2000
Client Contact: GERRY WALKER Date Received: 08/09/2000
Client Project Number: 0401 CTO-141 Date Reported: 09/05/2000
Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: SOIL
Client Sample ID: NASP1932 DUP-1

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 08/10/2000 Date Analyzed: 08/10/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	86	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 08/14/2000 Date Analyzed: 08/15/2000 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	3.2JB	70
Cadmium	<RDL	4.7
Chromium	1.6J	8.1
Lead	<RDL	58

ANALYSIS: PAH's Method Ref: 8270C
Date Ext/Dig/Prep: 08/15/2000 Date Analyzed: 08/16/2000 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	240	77
2-Methylnaphthalene	340	77
Acenaphthene	45J	77
Acenaphthylene	<RDL	77
Anthracene	<RDL	77
Benzo(a)anthracene	<RDL	77
Benzo(a)pyrene	<RDL	77
Benzo(b)fluoranthene	<RDL	77
Benzo(g,h,i)perylene	<RDL	77
Benzo(k)fluoranthene	<RDL	77
Chrysene	13J	77
Dibenz(a,h)anthracene	<RDL	77
Fluoranthene	<RDL	77
Fluorene	59J	77
Indeno(1,2,3-cd)pyrene	<RDL	77

Naphthalene	51J	77
Phenanthrene	55J	77
Pyrene	35J	77

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	690	170

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	330
1,1,2,2-Tetrachloroethane	<RDL	330
1,1,2-Trichloroethane	<RDL	330
1,1-Dichloroethane	<RDL	330
1,1-Dichloroethene	<RDL	330
1,2-Dichloroethane	<RDL	330
1,2-Dichloropropane	<RDL	330
1,2-Dichloropropene	<RDL	330
2-Chloroethylvinyl ether	<RDL	3300
Acrolein	<RDL	3300
Acrylonitrile	<RDL	3300
Benzene	<RDL	330
Bromodichloromethane	<RDL	330
Bromoform	<RDL	330
Bromomethane	<RDL	330
Carbon tetrachloride	<RDL	330
Chlorobenzene	<RDL	330
Chloroform	<RDL	330
Chloromethane	<RDL	330
Ethylbenzene	<RDL	330
Methyl Bromide	<RDL	330
Methyl Chloride	<RDL	330
Methyl-tert-butyl ether (MTBE)	<RDL	3300
Methylene chloride	<RDL	330
Tetrachloroethene	<RDL	330
Toluene	<RDL	330
trans-1,2-Dichloroethene	<RDL	330
Trichloroethene	<RDL	330
Vinyl chloride	<RDL	330
Xylenes (Total)	<RDL	670

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits

2-Fluorobiphenyl	(Range 50-103)	94
Nitrobenzene-d5	(Range 43-104)	100
p-Terphenyl-d14	(Range 44-125)	97

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	50	
o-Terphenyl (Range 62-109)	99	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	88	
4-Bromofluorobenzene (Range 80-131)	102	
Toluene-d8 (Range 82-119)	99	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96897 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-3 12-14'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	79	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	76
Cadmium	<RDL	5.1
Chromium	<RDL	8.9
Lead	<RDL	63

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	4400	420
2-Methylnaphthalene	6300	420
Acenaphthene	590	420
Acenaphthylene	<RDL	420
Anthracene	380J	420
Benzo(a)anthracene	<RDL	420
Benzo(a)pyrene	<RDL	420
Benzo(b)fluoranthene	<RDL	420
Benzo(g,h,i)perylene	<RDL	420
Benzo(k)fluoranthene	<RDL	420
Chrysene	<RDL	420
Dibenz(a,h)anthracene	<RDL	420
Fluoranthene	<RDL	420
Fluorene	1100	420
Indeno(1,2,3-cd)pyrene	<RDL	420

Naphthalene	1400	420
Phenanthrene	1400	420
Pyrene	210J	420

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	2700	380

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	300
1,1,2,2-Tetrachloroethane	<RDL	300
1,1,2-Trichloroethane	<RDL	300
1,1-Dichloroethane	<RDL	300
1,1-Dichloroethene	<RDL	300
1,2-Dichloroethane	<RDL	300
1,2-Dichloropropane	<RDL	300
1,2-Dichloropropene	<RDL	300
2-Chloroethylvinyl ether	<RDL	3000
Acrolein	<RDL	3000
Acrylonitrile	<RDL	3000
Benzene	<RDL	300
Bromodichloromethane	<RDL	300
Bromoform	<RDL	300
Bromomethane	<RDL	300
Carbon tetrachloride	<RDL	300
Chlorobenzene	<RDL	300
Chloroform	<RDL	300
Chloromethane	<RDL	300
Ethylbenzene	970	300
Methyl Bromide	<RDL	300
Methyl Chloride	<RDL	300
Methyl-tert-butyl ether (MTBE)	<RDL	3000
Methylene chloride	<RDL	300
Tetrachloroethene	<RDL	300
Toluene	<RDL	300
trans-1,2-Dichloroethene	<RDL	300
Trichloroethene	<RDL	300
Vinyl chloride	<RDL	300
Xylenes (Total)	<RDL	600

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits

2-Fluorobiphenyl	(Range 50-103)	87
Nitrobenzene-d5	(Range 43-104)	92
p-Terphenyl-d14	(Range 44-125)	89

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	54	
o-Terphenyl (Range 62-109)	142	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	87	
4-Bromofluorobenzene (Range 80-131)	99	
Toluene-d8 (Range 82-119)	98	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96893 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-4 10-11.5'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	95	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Cadmium	<RDL	4.2
Chromium	0.81J	7.4
Lead	<RDL	53

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	<RDL	70
2-Methylnaphthalene	<RDL	70
Acenaphthene	<RDL	70
Acenaphthylene	<RDL	70
Anthracene	<RDL	70
Benzo(a)anthracene	<RDL	70
Benzo(a)pyrene	<RDL	70
Benzo(b)fluoranthene	<RDL	70
Benzo(g,h,i)perylene	<RDL	70
Benzo(k)fluoranthene	<RDL	70
Chrysene	<RDL	70
Dibenz(a,h)anthracene	<RDL	70
Fluoranthene	<RDL	70
Fluorene	<RDL	70
Indeno(1,2,3-cd)pyrene	<RDL	70

Naphthalene	<RDL	70
Phenanthrene	<RDL	70
Pyrene	<RDL	70

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	10JB	32

ANALYSIS: TOC (Total Organic Carbon) Method Ref: EPA 9060

Date Ext/Dig/Prep: 8/28/00 Date Analyzed: 8/29/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Total Organic Carbon	46900	378

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.4
1,1,2,2-Tetrachloroethane	<RDL	5.4
1,1,2-Trichloroethane	<RDL	5.4
1,1-Dichloroethane	<RDL	5.4
1,1-Dichloroethene	<RDL	5.4
1,2-Dichloroethane	<RDL	5.4
1,2-Dichloropropane	<RDL	5.4
1,2-Dichloropropene	<RDL	5.4
2-Chloroethylvinyl ether	<RDL	5.4
Acrolein	<RDL	54
Acrylonitrile	<RDL	54
Benzene	<RDL	54
Bromodichloromethane	<RDL	5.4
Bromoform	<RDL	5.4
Bromomethane	<RDL	5.4
Carbon tetrachloride	<RDL	5.4
Chlorobenzene	<RDL	5.4
Chloroform	<RDL	5.4
Chloromethane	<RDL	5.4
Ethylbenzene	<RDL	5.4
Methyl Bromide	<RDL	5.4
Methyl Chloride	<RDL	5.4
Methyl-tert-butyl ether (MTBE)	<RDL	5.4
Methylene chloride	<RDL	54
Tetrachloroethene	<RDL	5.4
Toluene	<RDL	5.4
trans-1,2-Dichloroethene	<RDL	5.4
Trichloroethene	<RDL	5.4
Vinyl chloride	<RDL	5.4

Xylenes (Total)	<RDL	11

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2-Fluorobiphenyl (Range 50-103)	80	
Nitrobenzene-d5 (Range 43-104)	79	
p-Terphenyl-d14 (Range 44-125)	84	

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	47	
o-Terphenyl (Range 62-109)	73	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	79	
4-Bromofluorobenzene (Range 80-131)	101	
Toluene-d8 (Range 82-119)	101	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96894 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-5

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	94	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	64
Cadmium	<RDL	4.3
Chromium	1.5J	7.4
Lead	<RDL	53

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	3000	71
2-Methylnaphthalene	4200	71
Acenaphthene	460	71
Acenaphthylene	<RDL	71
Anthracene	450	71
Benzo(a)anthracene	<RDL	71
Benzo(a)pyrene	<RDL	71
Benzo(b)fluoranthene	<RDL	71
Benzo(g,h,i)perylene	<RDL	71
Benzo(k)fluoranthene	<RDL	71
Chrysene	36J	71
Dibenz(a,h)anthracene	<RDL	71
Fluoranthene	45J	71
Fluorene	1100	71
Indeno(1,2,3-cd)pyrene	<RDL	71

Naphthalene	430	71
Phenanthrene	1300	71
Pyrene	230	71

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/14/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	3100	640

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	290
1,1,2,2-Tetrachloroethane	<RDL	290
1,1,2-Trichloroethane	<RDL	290
1,1-Dichloroethane	<RDL	290
1,1-Dichloroethene	<RDL	290
1,2-Dichloroethane	<RDL	290
1,2-Dichloropropane	<RDL	290
1,2-Dichloropropene	<RDL	290
2-Chloroethylvinyl ether	<RDL	2900
Acrolein	<RDL	2900
Acrylonitrile	<RDL	2900
Benzene	<RDL	290
Bromodichloromethane	<RDL	290
Bromoform	<RDL	290
Bromomethane	<RDL	290
Carbon tetrachloride	<RDL	290
Chlorobenzene	<RDL	290
Chloroform	<RDL	290
Chloromethane	<RDL	290
Ethylbenzene	<RDL	290
Methyl Bromide	<RDL	290
Methyl Chloride	<RDL	290
Methyl-tert-butyl ether (MTBE)	<RDL	2900
Methylene chloride	<RDL	290
Tetrachloroethene	<RDL	290
Toluene	<RDL	290
trans-1,2-Dichloroethene	<RDL	290
Trichloroethene	<RDL	290
Vinyl chloride	<RDL	290
Xylenes (Total)	<RDL	580

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits

2-Fluorobiphenyl	(Range 50-103)	86
Nitrobenzene-d5	(Range 43-104)	106
p-Terphenyl-d14	(Range 44-125)	84

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/14/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	94	
4-Bromofluorobenzene (Range 80-131)	104	
Toluene-d8 (Range 82-119)	100	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96895 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-6 10-12'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	89	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	67
Cadmium	<RDL	4.5
Chromium	0.93J	7.9
Lead	<RDL	56

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	<RDL	75
2-Methylnaphthalene	<RDL	75
Acenaphthene	<RDL	75
Acenaphthylene	<RDL	75
Anthracene	<RDL	75
Benzo(a)anthracene	<RDL	75
Benzo(a)pyrene	<RDL	75
Benzo(b)fluoranthene	<RDL	75
Benzo(g,h,i)perylene	<RDL	75
Benzo(k)fluoranthene	<RDL	75
Chrysene	<RDL	75
Dibenz(a,h)anthracene	<RDL	75
Fluoranthene	<RDL	75
Fluorene	<RDL	75
Indeno(1,2,3-cd)pyrene	<RDL	75

Naphthalene	<RDL	75
Phenanthrene	<RDL	75
Pyrene	<RDL	75

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	19JB	34

ANALYSIS: TOC (Total Organic Carbon) Method Ref: EPA 9060

Date Ext/Dig/Prep: 8/28/00 Date Analyzed: 8/29/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Total Organic Carbon	244000	2000

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.5
1,1,2,2-Tetrachloroethane	<RDL	5.5
1,1,2-Trichloroethane	<RDL	5.5
1,1-Dichloroethane	<RDL	5.5
1,1-Dichloroethene	<RDL	5.5
1,2-Dichloroethane	<RDL	5.5
1,2-Dichloropropane	<RDL	5.5
1,2-Dichloropropene	<RDL	5.5
2-Chloroethylvinyl ether	<RDL	55
Acrolein	<RDL	55
Acrylonitrile	<RDL	55
Benzene	<RDL	5.5
Bromodichloromethane	<RDL	5.5
Bromoform	<RDL	5.5
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	5.5
Chlorobenzene	<RDL	5.5
Chloroform	<RDL	5.5
Chloromethane	<RDL	5.5
Ethylbenzene	<RDL	5.5
Methyl Bromide	<RDL	5.5
Methyl Chloride	<RDL	5.5
Methyl-tert-butyl ether (MTBE)	<RDL	55
Methylene chloride	<RDL	5.5
Tetrachloroethene	<RDL	5.5
Toluene	<RDL	5.5
trans-1,2-Dichloroethene	<RDL	5.5
Trichloroethene	<RDL	5.5
Vinyl chloride	<RDL	5.5

Xylenes (Total)	<RDL	11	

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name		Analytical Results	Reported Detection Limits
2-Fluorobiphenyl	(Range 50-103)	83	
Nitrobenzene-d5	(Range 43-104)	84	
p-Terphenyl-d14	(Range 44-125)	92	

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	39	
o-Terphenyl (Range 62-109)	74	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	80	
4-Bromofluorobenzene (Range 80-131)	109	
Toluene-d8 (Range 82-119)	104	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96899 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-7 10-14'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	96	1.0

ANALYSIS: Metals - Mercury - RCRA Navy Method Ref: 7471A
Date Ext/Dig/Prep: 8/18/00 Date Analyzed: 8/18/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Mercury	<RDL	0.1

ANALYSIS: Metals - RCRA Navy Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Barium	<RDL	5.2
Cadmium	<RDL	4.2
Chromium	<RDL	7.3
Lead	<RDL	52
Selenium	<RDL	83
Silver	<RDL	7.3

ANALYSIS: PAH's Method Ref: 8270C
Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	14000	690
2-Methylnaphthalene	19000	690
Acenaphthene	1500	690
Acenaphthylene	<RDL	690
Anthracene	900	690

Benzo(a)anthracene	<RDL	690
Benzo(a)pyrene	<RDL	690
Benzo(b)fluoranthene	<RDL	690
Benzo(g,h,i)perylene	<RDL	690
Benzo(k)fluoranthene	<RDL	690
Chrysene	150J	690
Dibenz(a,h)anthracene	<RDL	690
Fluoranthene	210J	690
Fluorene	2800	690
Indeno(1,2,3-cd)pyrene	<RDL	690
Naphthalene	4700	690
Phenanthrene	4200	690
Pyrene	540J	690

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	4700	1600

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	230
1,1,2,2-Tetrachloroethane	<RDL	230
1,1,2-Trichloroethane	<RDL	230
1,1-Dichloroethane	<RDL	230
1,1-Dichloroethene	<RDL	230
1,2-Dichloroethane	<RDL	230
1,2-Dichloropropane	<RDL	230
1,2-Dichloropropene	<RDL	230
2-Chloroethylvinyl ether	<RDL	2300
Acrolein	<RDL	2300
Acrylonitrile	<RDL	2300
Benzene	<RDL	230
Bromodichloromethane	<RDL	230
Bromoform	<RDL	230
Bromomethane	<RDL	230
Carbon tetrachloride	<RDL	230
Chlorobenzene	<RDL	230
Chloroform	<RDL	230
Chloromethane	<RDL	230
Ethylbenzene	1200	230
Methyl Bromide	<RDL	230
Methyl Chloride	<RDL	230
Methyl-tert-butyl ether (MTBE)	<RDL	2300
Methylene chloride	<RDL	230
Tetrachloroethene	<RDL	230
Toluene	<RDL	230

trans-1,2-Dichloroethene	<RDL	230
Trichloroethene	<RDL	230
Vinyl chloride	<RDL	230
Xylenes (Total)	320 J	460

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name		Analytical Results	Reported Detection Limits
2-Fluorobiphenyl	(Range 50-103)	91	
Nitrobenzene-d5	(Range 43-104)	126	
p-Terphenyl-d14	(Range 44-125)	86	

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	89	
4-Bromofluorobenzene (Range 80-131)	97	
Toluene-d8 (Range 82-119)	98	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96898 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: 0401 CTO-141
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-11

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 9/1/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	82	1.0

ANALYSIS: Metals - Mercury - RCRA Navy Method Ref: 7471A

Date Ext/Dig/Prep: 8/18/00 Date Analyzed: 8/18/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Mercury	<RDL	0.1

ANALYSIS: Metals - RCRA Navy Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	73
Barium	0.74J	6.1
Cadmium	<RDL	4.9
Chromium	0.82J	8.5
Lead	<RDL	61
Selenium	<RDL	98
Silver	<RDL	8.5

ANALYSIS: PAH's Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnaphthalene	54000	1600
2-Methylnaphthalene	78000	1600
Acenaphthene	4900	410
Acenaphthylene	<RDL	410
Anthracene	3000	410

Benzo(a)anthracene	280J	410
Benzo(a)pyrene	170J	410
Benzo(b)fluoranthene	180J	410
Benzo(g,h,i)perylene	47J	410
Benzo(k)fluoranthene	130J	410
Chrysene	370J	410
Dibenz(a,h)anthracene	<RDL	410
Fluoranthene	1100	410
Fluorene	10000	410
Indeno(1,2,3-cd)pyrene	51J	410
Naphthalene	2100	410
Phenanthrene	17000	410
Pyrene	2000	410

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	14000	3700

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.8
1,1,2,2-Tetrachloroethane	<RDL	5.8
1,1,2-Trichloroethane	<RDL	5.8
1,1-Dichloroethane	<RDL	5.8
1,1-Dichloroethene	<RDL	5.8
1,2-Dichloroethane	<RDL	5.8
1,2-Dichloropropane	<RDL	5.8
1,2-Dichloropropene	<RDL	5.8
2-Chloroethylvinyl ether	<RDL	58
Acrolein	<RDL	58
Acrylonitrile	<RDL	58
Benzene	<RDL	5.8
Bromodichloromethane	<RDL	5.8
Bromoform	<RDL	5.8
Bromomethane	<RDL	5.8
Carbon tetrachloride	<RDL	5.8
Chlorobenzene	<RDL	5.8
Chloroform	<RDL	5.8
Chloromethane	<RDL	5.8
Ethylbenzene	220	5.8
Methyl Bromide	<RDL	5.8
Methyl Chloride	<RDL	5.8
Methyl-tert-butyl ether (MTBE)	<RDL	58
Methylene chloride	<RDL	5.8
Tetrachloroethene	<RDL	5.8
Toluene	<RDL	5.8

trans-1,2-Dichloroethene	<RDL	5.8
Trichloroethene	<RDL	5.8
Vinyl chloride	<RDL	5.8
Xylenes (Total)	<RDL	12

ANALYSIS: X B/N Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/15/00 Date Analyzed: 8/16/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2-Fluorobiphenyl (Range 50-103)	102	
Nitrobenzene-d5 (Range 43-104)	138	
p-Terphenyl-d14 (Range 44-125)	90	

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	81	
4-Bromofluorobenzene (Range 80-131)	97	
Toluene-d8 (Range 82-119)	111	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96893 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-4 10-11.5'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	95	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Cadmium	<RDL	4.2
Chromium	0.81J	7.4
Lead	<RDL	53

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	10JB	32

ANALYSIS: SVOC's Navy Method Ref: 8270C
Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	690
1,2-Dichlorobenzene	<RDL	690
1,3-Dichlorobenzene	<RDL	690
1,4-Dichlorobenzene	<RDL	690
2,4,5-Trichlorophenol	<RDL	350
2,4,6-Trichlorophenol	<RDL	690
2,4-Dichlorophenol	<RDL	690
2,4-Dimethylphenol	<RDL	690

2,4-Dinitrophenol	<RDL	3500
2,4-Dinitrotoluene	<RDL	690
2,6-Dinitrotoluene	<RDL	690
2-Chloronaphthalene	<RDL	690
2-Chlorophenol	<RDL	690
2-Methylnaphthalene	<RDL	690
2-Methylphenol	<RDL	690
2-Nitroaniline	<RDL	3500
2-Nitrophenol	<RDL	690
3,3'-Dichlorobenzidine	<RDL	690
3-Methylphenol	<RDL	690
3-Nitroaniline	<RDL	3500
4,6-Dinitro-2-methylphenol	<RDL	3500
4-Bromophenyl phenyl ether	<RDL	690
4-Chloro-3-methylphenol	<RDL	1400
4-Chloroaniline	<RDL	690
4-Chlorophenyl phenyl ether	<RDL	690
4-Methylphenol	<RDL	690
4-Nitroaniline	<RDL	3500
4-Nitrophenol	<RDL	1700
Acenaphthene	<RDL	690
Acenaphthylene	<RDL	690
Anthracene	<RDL	690
Benzo(a)anthracene	<RDL	690
Benzo(a)pyrene	<RDL	690
Benzo(b)fluoranthene	<RDL	690
Benzo(g,h,i)perylene	<RDL	690
Benzo(k)fluoranthene	<RDL	690
Benzoic acid	<RDL	1700
Benzyl alcohol	<RDL	690
bis(2-Chloroethoxy)methane	<RDL	690
bis(2-Chloroethyl)ether	<RDL	690
bis(2-Chloroisopropyl)ether	<RDL	690
bis(2-Ethylhexyl)phthalate	<RDL	690
Butyl benzyl phthalate	<RDL	690
Carbazole	<RDL	690
Chrysene	<RDL	690
Di-n-butylphthalate	<RDL	690
Di-n-octylphthalate	<RDL	690
Dibenz(a,h)anthracene	<RDL	690
Dibenzofuran	<RDL	690
Diethylphthalate	<RDL	690
Dimethylphthalate	<RDL	690
Fluoranthene	<RDL	690
Fluorene	<RDL	690
Hexachlorobenzene	<RDL	690
Hexachlorobutadiene	<RDL	690
Hexachlorocyclopentadiene	<RDL	690
Hexachloroethane	<RDL	690
Indeno(1,2,3-cd)pyrene	<RDL	690
N-Nitroso-di-n-propylamine	<RDL	690
N-Nitrosodiphenylamine	<RDL	690

Naphthalene	<RDL	690
Nitrobenzene	<RDL	690
Pentachlorophenol	<RDL	3500
Phenanthrene	<RDL	690
Phenol	<RDL	690
Pyrene	<RDL	690

ANALYSIS: TOC (Total Organic Carbon) Method Ref: EPA 9060

Date Ext/Dig/Prep: 8/28/00 Date Analyzed: 8/29/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Total Organic Carbon	46900	378

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.4
1,1,2,2-Tetrachloroethane	<RDL	5.4
1,1,2-Trichloroethane	<RDL	5.4
1,1-Dichloroethane	<RDL	5.4
1,1-Dichloroethene	<RDL	5.4
1,2-Dichloroethane	<RDL	5.4
1,2-Dichloropropane	<RDL	5.4
1,2-Dichloropropene	<RDL	5.4
2-Chloroethylvinyl ether	<RDL	54
Acrolein	<RDL	54
Acrylonitrile	<RDL	54
Benzene	<RDL	5.4
Bromodichloromethane	<RDL	5.4
Bromoform	<RDL	5.4
Bromomethane	<RDL	5.4
Carbon tetrachloride	<RDL	5.4
Chlorobenzene	<RDL	5.4
Chloroform	<RDL	5.4
Chloromethane	<RDL	5.4
Ethylbenzene	<RDL	5.4
Methyl Bromide	<RDL	5.4
Methyl Chloride	<RDL	5.4
Methyl-tert-butyl ether (MTBE)	<RDL	54
Methylene chloride	<RDL	5.4
Tetrachloroethene	<RDL	5.4
Toluene	<RDL	5.4
trans-1,2-Dichloroethene	<RDL	5.4
Trichloroethene	<RDL	5.4
Vinyl chloride	<RDL	5.4
Xylenes (Total)	<RDL	11

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	47	
o-Terphenyl (Range 62-109)	73	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	79	
4-Bromofluorobenzene (Range 80-131)	101	
Toluene-d8 (Range 82-119)	101	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	73	
2-Fluorobiphenyl (Range 50-103)	70	
2-Fluorophenol (Range 35-100)	64	
Nitrobenzene-d5 (Range 43-104)	63	
p-Terphenyl-d14 (Range 44-125)	79	
Phenol-d6 (Range 51-101)	61	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96894 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA. BLDG 1932
Client Sample ID: NASP1932 SB-5

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	94	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	64
Cadmium	<RDL	4.3
Chromium	1.5J	7.4
Lead	<RDL	53

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/14/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	3100	640

ANALYSIS: SVOC's Navy Method Ref: 8270C
Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	690
1,2-Dichlorobenzene	<RDL	690
1,3-Dichlorobenzene	<RDL	690
1,4-Dichlorobenzene	<RDL	690
2,4,5-Trichlorophenol	<RDL	350
2,4,6-Trichlorophenol	<RDL	690
2,4-Dichlorophenol	<RDL	690
2,4-Dimethylphenol	<RDL	690

2,4-Dinitrophenol	<RDL	3500
2,4-Dinitrotoluene	<RDL	690
2,6-Dinitrotoluene	<RDL	690
2-Chloronaphthalene	<RDL	690
2-Chlorophenol	<RDL	690
2-Methylnaphthalene	<RDL	690
2-Methylphenol	<RDL	690
2-Nitroaniline	<RDL	3500
2-Nitrophenol	<RDL	690
3,3'-Dichlorobenzidine	<RDL	690
3-Methylphenol	<RDL	690
3-Nitroaniline	<RDL	3500
4,6-Dinitro-2-methylphenol	<RDL	3500
4-Bromophenyl phenyl ether	<RDL	690
4-Chloro-3-methylphenol	<RDL	1400
4-Chloroaniline	<RDL	690
4-Chlorophenyl phenyl ether	<RDL	690
4-Methylphenol	<RDL	690
4-Nitroaniline	<RDL	3500
4-Nitrophenol	<RDL	1700
Acenaphthene	<RDL	690
Acenaphthylene	<RDL	690
Anthracene	<RDL	690
Benzo(a)anthracene	<RDL	690
Benzo(a)pyrene	<RDL	690
Benzo(b)fluoranthene	<RDL	690
Benzo(g,h,i)perylene	<RDL	690
Benzo(k)fluoranthene	<RDL	690
Benzoic acid	<RDL	1700
Benzyl alcohol	<RDL	690
bis(2-Chloroethoxy)methane	<RDL	690
bis(2-Chloroethyl)ether	<RDL	690
bis(2-Chloroisopropyl)ether	<RDL	690
bis(2-Ethylhexyl)phthalate	<RDL	690
Butyl benzyl phthalate	<RDL	690
Carbazole	<RDL	690
Chrysene	43 J	690
Di-n-butylphthalate	<RDL	690
Di-n-octylphthalate	<RDL	690
Dibenz(a,h)anthracene	<RDL	690
Dibenzofuran	<RDL	690
Diethylphthalate	<RDL	690
Dimethylphthalate	<RDL	690
Fluoranthene	<RDL	690
Fluorene	<RDL	690
Hexachlorobenzene	<RDL	690
Hexachlorobutadiene	<RDL	690
Hexachlorocyclopentadiene	<RDL	690
Hexachloroethane	<RDL	690
Indeno(1,2,3-cd)pyrene	<RDL	690
N-Nitroso-di-n-propylamine	<RDL	690
N-Nitrosodiphenylamine	<RDL	690

Naphthalene	<RDL	690
Nitrobenzene	<RDL	690
Pentachlorophenol	<RDL	3500
Phenanthrene	<RDL	690
Phenol	<RDL	690
Pyrene	150 J	690

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	290
1,1,2,2-Tetrachloroethane	<RDL	290
1,1,2-Trichloroethane	<RDL	290
1,1-Dichloroethane	<RDL	290
1,1-Dichloroethene	<RDL	290
1,2-Dichloroethane	<RDL	290
1,2-Dichloropropane	<RDL	290
1,2-Dichloropropene	<RDL	290
2-Chloroethylvinyl ether	<RDL	2900
Acrolein	<RDL	2900
Acrylonitrile	<RDL	2900
Benzene	<RDL	290
Bromodichloromethane	<RDL	290
Bromoform	<RDL	290
Bromomethane	<RDL	290
Carbon tetrachloride	<RDL	290
Chlorobenzene	<RDL	290
Chloroform	<RDL	290
Chloromethane	<RDL	290
Ethylbenzene	<RDL	290
Methyl Bromide	<RDL	290
Methyl Chloride	<RDL	290
Methyl-tert-butyl ether (MTBE)	<RDL	2900
Methylene chloride	<RDL	290
Tetrachloroethene	<RDL	290
Toluene	<RDL	290
trans-1,2-Dichloroethene	<RDL	290
Trichloroethene	<RDL	290
Vinyl chloride	<RDL	290
Xylenes (Total)	<RDL	580

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext Dig/Prep: 8/11/00 Date Analyzed: 8/14/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	94	
4-Bromofluorobenzene (Range 80-131)	104	
Toluene-d8 (Range 82-119)	100	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	115	
2-Fluorobiphenyl (Range 50-103)	81	
2-Fluorophenol (Range 35-100)	83	
Nitrobenzene-d5 (Range 43-104)	114	
p-Terphenyl-d14 (Range 44-125)	68	
Phenol-d6 (Range 51-101)	81	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 · NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96895 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA. BLDG 1932
Client Sample ID: NASP1932 SB-6 10-12'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	89	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	67
Cadmium	<RDL	4.5
Chromium	0.93J	7.9
Lead	<RDL	56

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/12/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	19JB	34

ANALYSIS: SVOC's Navy Method Ref: 8270C
Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	730
1,2-Dichlorobenzene	<RDL	730
1,3-Dichlorobenzene	<RDL	730
1,4-Dichlorobenzene	<RDL	730
2,4,5-Trichlorophenol	<RDL	370
2,4,6-Trichlorophenol	<RDL	730
2,4-Dichlorophenol	<RDL	730
2,4-Dimethylphenol	<RDL	730

2,4-Dinitrophenol	<RDL	3700
2,4-Dinitrotoluene	<RDL	730
2,6-Dinitrotoluene	<RDL	730
2-Chloronaphthalene	<RDL	730
2-Chlorophenol	<RDL	730
2-Methylnaphthalene	<RDL	730
2-Methylphenol	<RDL	730
2-Nitroaniline	<RDL	3700
2-Nitrophenol	<RDL	730
3,3'-Dichlorobenzidine	<RDL	730
3-Methylphenol	<RDL	730
3-Nitroaniline	<RDL	3700
4,6-Dinitro-2-methylphenol	<RDL	3700
4-Bromophenyl phenyl ether	<RDL	730
4-Chloro-3-methylphenol	<RDL	1400
4-Chloroaniline	<RDL	730
4-Chlorophenyl phenyl ether	<RDL	730
4-Methylphenol	<RDL	730
4-Nitroaniline	<RDL	3700
4-Nitrophenol	<RDL	1800
Acenaphthene	<RDL	730
Acenaphthylene	<RDL	730
Anthracene	<RDL	730
Benzo(a)anthracene	<RDL	730
Benzo(a)pyrene	<RDL	730
Benzo(b)fluoranthene	<RDL	730
Benzo(g,h,i)perylene	<RDL	730
Benzo(k)fluoranthene	<RDL	730
Benzoic acid	<RDL	1800
Benzyl alcohol	<RDL	730
bis(2-Chloroethoxy)methane	<RDL	730
bis(2-Chloroethyl)ether	<RDL	730
bis(2-Chloroisopropyl)ether	<RDL	730
bis(2-Ethylhexyl)phthalate	<RDL	730
Butyl benzyl phthalate	<RDL	730
Carbazole	<RDL	730
Chrysene	<RDL	730
Di-n-butylphthalate	<RDL	730
Di-n-octylphthalate	<RDL	730
Dibenz(a,h)anthracene	<RDL	730
Dibenzofuran	<RDL	730
Diethylphthalate	<RDL	730
Dimethylphthalate	<RDL	730
Fluoranthene	<RDL	730
Fluorene	<RDL	730
Hexachlorobenzene	<RDL	730
Hexachlorobutadiene	<RDL	730
Hexachlorocyclopentadiene	<RDL	730
Hexachloroethane	<RDL	730
Indeno(1,2,3-cd)pyrene	<RDL	730
N-Nitroso-di-n-propylamine	<RDL	730
N-Nitrosodiphenylamine	<RDL	730

Naphthalene	<RDL	730
Nitrobenzene	<RDL	730
Pentachlorophenol	<RDL	3700
Phenanthrene	<RDL	730
Phenol	<RDL	730
Pyrene	<RDL	730

ANALYSIS: TOC (Total Organic Carbon) Method Ref: EPA 9060

Date Ext/Dig/Prep: 8/28/00 Date Analyzed: 8/29/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Total Organic Carbon	244000	2000

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.5
1,1,2,2-Tetrachloroethane	<RDL	5.5
1,1,2-Trichloroethane	<RDL	5.5
1,1-Dichloroethane	<RDL	5.5
1,1-Dichloroethene	<RDL	5.5
1,2-Dichloroethane	<RDL	5.5
1,2-Dichloropropane	<RDL	5.5
1,2-Dichloropropene	<RDL	5.5
2-Chloroethylvinyl ether	<RDL	55
Acrolein	<RDL	55
Acrylonitrile	<RDL	55
Benzene	<RDL	5.5
Bromodichloromethane	<RDL	5.5
Bromoform	<RDL	5.5
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	5.5
Chlorobenzene	<RDL	5.5
Chloroform	<RDL	5.5
Chloromethane	<RDL	5.5
Ethylbenzene	<RDL	5.5
Methyl Bromide	<RDL	5.5
Methyl Chloride	<RDL	5.5
Methyl-tert-butyl ether (MTBE)	<RDL	55
Methylene chloride	<RDL	5.5
Tetrachloroethene	<RDL	5.5
Toluene	<RDL	5.5
trans-1,2-Dichloroethene	<RDL	5.5
Trichloroethene	<RDL	5.5
Vinyl chloride	<RDL	5.5
Xylenes (Total)	<RDL	11

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11 00 Date Analyzed: 8/12/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	39	
o-Terphenyl (Range 62-109)	74	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11 00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	80	
4-Bromofluorobenzene (Range 80-131)	109	
Toluene-d8 (Range 82-119)	104	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28.00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	90	
2-Fluorobiphenyl (Range 50-103)	86	
2-Fluorophenol (Range 35-100)	74	
Nitrobenzene-d5 (Range 43-104)	74	
p-Terphenyl-d14 (Range 44-125)	92	
Phenol-d6 (Range 51-101)	73	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017. Phone (770)449-8800. FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96896 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 DUP-1

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	86	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	3.2JB	70
Cadmium	<RDL	4.7
Chromium	1.6J	8.1
Lead	<RDL	58

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	690	170

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	770
1,2-Dichlorobenzene	<RDL	770
1,3-Dichlorobenzene	<RDL	770
1,4-Dichlorobenzene	<RDL	770
2,4,5-Trichlorophenol	<RDL	390
2,4,6-Trichlorophenol	<RDL	770
2,4-Dichlorophenol	<RDL	770
2,4-Dimethylphenol	<RDL	770

2,4-Dinitrophenol	<RDL	3900
2,4-Dinitrotoluene	<RDL	770
2,6-Dinitrotoluene	<RDL	770
2-Chloronaphthalene	<RDL	770
2-Chlorophenol	<RDL	770
2-Methylnaphthalene	2400	770
2-Methylphenol	<RDL	770
2-Nitroaniline	<RDL	3900
2-Nitrophenol	<RDL	770
3,3'-Dichlorobenzidine	<RDL	770
3-Methylphenol	<RDL	770
3-Nitroaniline	<RDL	3900
4,6-Dinitro-2-methylphenol	<RDL	3900
4-Bromophenyl phenyl ether	<RDL	770
4-Chloro-3-methylphenol	<RDL	1500
4-Chloroaniline	<RDL	770
4-Chlorophenyl phenyl ether	<RDL	770
4-Methylphenol	<RDL	770
4-Nitroaniline	<RDL	3900
4-Nitrophenol	<RDL	1900
Acenaphthene	<RDL	770
Acenaphthylene	<RDL	770
Anthracene	<RDL	770
Benzo(a)anthracene	<RDL	770
Benzo(a)pyrene	<RDL	770
Benzo(b)fluoranthene	<RDL	770
Benzo(g,h,i)perylene	<RDL	770
Benzo(k)fluoranthene	<RDL	770
Benzoic acid	<RDL	1900
Benzyl alcohol	<RDL	770
bis(2-Chloroethoxy)methane	<RDL	770
bis(2-Chloroethyl)ether	<RDL	770
bis(2-Chloroisopropyl)ether	<RDL	770
bis(2-Ethylhexyl)phthalate	<RDL	770
Butyl benzyl phthalate	<RDL	770
Carbazole	<RDL	770
Chrysene	<RDL	770
Di-n-butylphthalate	<RDL	770
Di-n-octylphthalate	<RDL	770
Dibenz(a,h)anthracene	<RDL	770
Dibenzofuran	<RDL	770
Diethylphthalate	<RDL	770
Dimethylphthalate	<RDL	770
Fluoranthene	<RDL	770
Fluorene	780	770
Hexachlorobenzene	<RDL	770
Hexachlorobutadiene	<RDL	770
Hexachlorocyclopentadiene	<RDL	770
Hexachloroethane	<RDL	770
Indeno(1,2,3-cd)pyrene	<RDL	770
N-Nitroso-di-n-propylamine	<RDL	770
N-Nitrosodiphenylamine	<RDL	770

Naphthalene	<RDL	770
Nitrobenzene	<RDL	770
Pentachlorophenol	<RDL	3900
Phenanthrene	1100	770
Phenol	<RDL	770
Pyrene	170 J	770

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	330
1,1,2,2-Tetrachloroethane	<RDL	330
1,1,2-Trichloroethane	<RDL	330
1,1-Dichloroethane	<RDL	330
1,1-Dichloroethene	<RDL	330
1,2-Dichloroethane	<RDL	330
1,2-Dichloropropane	<RDL	330
1,2-Dichloropropene	<RDL	330
2-Chloroethylvinyl ether	<RDL	3300
Acrolein	<RDL	3300
Acrylonitrile	<RDL	3300
Benzene	<RDL	330
Bromodichloromethane	<RDL	330
Bromoform	<RDL	330
Bromomethane	<RDL	330
Carbon tetrachloride	<RDL	330
Chlorobenzene	<RDL	330
Chloroform	<RDL	330
Chloromethane	<RDL	330
Ethylbenzene	<RDL	330
Methyl Bromide	<RDL	330
Methyl Chloride	<RDL	330
Methyl-tert-butyl ether (MTBE)	<RDL	3300
Methylene chloride	<RDL	330
Tetrachloroethene	<RDL	330
Toluene	<RDL	330
trans-1,2-Dichloroethene	<RDL	330
Trichloroethene	<RDL	330
Vinyl chloride	<RDL	330
Xylenes (Total)	<RDL	670

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	50	
o-Terphenyl (Range 62-109)	99	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	88	
4-Bromofluorobenzene (Range 80-131)	102	
Toluene-d8 (Range 82-119)	99	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name		Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol	(Range 34-117)	105	
2-Fluorobiphenyl	(Range 50-103)	76	
2-Fluorophenol	(Range 35-100)	92	
Nitrobenzene-d5	(Range 43-104)	126	
p-Terphenyl-d14	(Range 44-125)	75	
Phenol-d6	(Range 51-101)	87	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96897 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA. BLDG 1932
Client Sample ID: **NASP1932 SB-3 12-14'**

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids

Method Ref: EPA 160.3
Date Ext Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	79	1.0

ANALYSIS: As,Cd,Cr,Pb (soils)

Method Ref: 3050B/6010B
Date Ext Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	76
Cadmium	<RDL	5.1
Chromium	<RDL	8.9
Lead	<RDL	63

ANALYSIS: Petroleum Range Organics (PRO)

Method Ref: FL-PRO
Date Ext Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	2700	380

ANALYSIS: SVOC's Navy

Method Ref: 8270C
Date Ext Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	4200
1,2-Dichlorobenzene	<RDL	4200
1,3-Dichlorobenzene	<RDL	4200
1,4-Dichlorobenzene	<RDL	4200
2,4,5-Trichlorophenol	<RDL	2100
2,4,6-Trichlorophenol	<RDL	4200
2,4-Dichlorophenol	<RDL	4200
2,4-Dimethylphenol	<RDL	4200

2,4-Dinitrophenol	<RDL	21000
2,4-Dinitrotoluene	<RDL	4200
2,6-Dinitrotoluene	<RDL	4200
2-Chloronaphthalene	<RDL	4200
2-Chlorophenol	<RDL	4200
2-Methylnaphthalene	18000	4200
2-Methylphenol	<RDL	4200
2-Nitroaniline	<RDL	21000
2-Nitrophenol	<RDL	4200
3,3'-Dichlorobenzidine	<RDL	4200
3-Methylphenol	<RDL	4200
3-Nitroaniline	<RDL	21000
4,6-Dinitro-2-methylphenol	<RDL	21000
4-Bromophenyl phenyl ether	<RDL	4200
4-Chloro-3-methylphenol	<RDL	8200
4-Chloroaniline	<RDL	4200
4-Chlorophenyl phenyl ether	<RDL	4200
4-Methylphenol	<RDL	4200
4-Nitroaniline	<RDL	21000
4-Nitrophenol	<RDL	10000
Acenaphthene	2900 J	4200
Acenaphthylene	<RDL	4200
Anthracene	<RDL	4200
Benzo(a)anthracene	<RDL	4200
Benzo(a)pyrene	<RDL	4200
Benzo(b)fluoranthene	<RDL	4200
Benzo(g,h,i)perylene	<RDL	4200
Benzo(k)fluoranthene	<RDL	4200
Benzoic acid	<RDL	10000
Benzyl alcohol	<RDL	4200
bis(2-Chloroethoxy)methane	<RDL	4200
bis(2-Chloroethyl)ether	<RDL	4200
bis(2-Chloroisopropyl)ether	<RDL	4200
bis(2-Ethylhexyl)phthalate	<RDL	4200
Butyl benzyl phthalate	<RDL	4200
Carbazole	<RDL	4200
Chrysene	<RDL	4200
Di-n-butylphthalate	<RDL	4200
Di-n-octylphthalate	<RDL	4200
Dibenz(a,h)anthracene	<RDL	4200
Dibenzofuran	<RDL	4200
Diethylphthalate	<RDL	4200
Dimethylphthalate	<RDL	4200
Fluoranthene	<RDL	4200
Fluorene	4400	4200
Hexachlorobenzene	<RDL	4200
Hexachlorobutadiene	<RDL	4200
Hexachlorocyclopentadiene	<RDL	4200
Hexachloroethane	<RDL	4200
Indeno(1,2,3-cd)pyrene	<RDL	4200
N-Nitroso-di-n-propylamine	<RDL	4200
N-Nitrosodiphenylamine	<RDL	4200

Naphthalene	5300	4200
Nitrobenzene	<RDL	4200
Pentachlorophenol	<RDL	21000
Phenanthrene	6300	4200
Phenol	<RDL	4200
Pyrene	870 J	4200

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	300
1,1,2,2-Tetrachloroethane	<RDL	300
1,1,2-Trichloroethane	<RDL	300
1,1-Dichloroethane	<RDL	300
1,1-Dichloroethene	<RDL	300
1,2-Dichloroethane	<RDL	300
1,2-Dichloropropane	<RDL	300
1,2-Dichloropropene	<RDL	300
2-Chloroethylvinyl ether	<RDL	3000
Acrolein	<RDL	3000
Acrylonitrile	<RDL	3000
Benzene	<RDL	300
Bromodichloromethane	<RDL	300
Bromoform	<RDL	300
Bromomethane	<RDL	300
Carbon tetrachloride	<RDL	300
Chlorobenzene	<RDL	300
Chloroform	<RDL	300
Chloromethane	<RDL	300
Ethylbenzene	970	300
Methyl Bromide	<RDL	300
Methyl Chloride	<RDL	300
Methyl-tert-butyl ether (MTBE)	<RDL	3000
Methylene chloride	<RDL	300
Tetrachloroethene	<RDL	300
Toluene	<RDL	300
trans-1,2-Dichloroethene	<RDL	300
Trichloroethene	<RDL	300
Vinyl chloride	<RDL	300
Xylenes (Total)	<RDL	600

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	54	
o-Terphenyl (Range 62-109)	142	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	87	
4-Bromofluorobenzene (Range 80-131)	99	
Toluene-d8 (Range 82-119)	98	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name		Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol	(Range 34-117)	120	
2-Fluorobiphenyl	(Range 50-103)	111	
2-Fluorophenol	(Range 35-100)	67	
Nitrobenzene-d5	(Range 43-104)	153	
p-Terphenyl-d14	(Range 44-125)	89	
Phenol-d6	(Range 51-101)	78	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96898 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-11

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	82	1.0

ANALYSIS: Metals - Mercury - RCRA Navy Method Ref: 7471A
Date Ext/Dig/Prep: 8/18/00 Date Analyzed: 8/18/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Mercury	<RDL	0.1

ANALYSIS: Metals - RCRA Navy Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	73
Barium	0.74J	6.1
Cadmium	<RDL	4.9
Chromium	0.82J	8.5
Lead	<RDL	61
Selenium	<RDL	98
Silver	<RDL	8.5

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	14000	3700

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 09/28/2000 Date Analyzed: 10/01/2000 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	4000
1,2-Dichlorobenzene	<RDL	4000
1,3-Dichlorobenzene	<RDL	4000
1,4-Dichlorobenzene	<RDL	4000
2,4,5-Trichlorophenol	<RDL	2000
2,4,6-Trichlorophenol	<RDL	4000
2,4-Dichlorophenol	<RDL	4000
2,4-Dimethylphenol	<RDL	4000
2,4-Dinitrophenol	<RDL	20000
2,4-Dinitrotoluene	<RDL	4000
2,6-Dinitrotoluene	<RDL	4000
2-Chloronaphthalene	<RDL	4000
2-Chlorophenol	<RDL	4000
2-Methylnaphthalene	18000	4000
2-Methylphenol	<RDL	4000
2-Nitroaniline	<RDL	20000
2-Nitrophenol	<RDL	4000
3,3'-Dichlorobenzidine	<RDL	4000
3-Methylphenol	<RDL	4000
3-Nitroaniline	<RDL	20000
4,6-Dinitro-2-methylphenol	<RDL	20000
4-Bromophenyl phenyl ether	<RDL	4000
4-Chloro-3-methylphenol	<RDL	7800
4-Chloroaniline	<RDL	4000
4-Chlorophenyl phenyl ether	<RDL	4000
4-Methylphenol	<RDL	4000
4-Nitroaniline	<RDL	20000
4-Nitrophenol	<RDL	9600
Acenaphthene	2200 J	4000
Acenaphthylene	<RDL	4000
Anthracene	670 J	4000
Benzo(a)anthracene	<RDL	4000
Benzo(a)pyrene	<RDL	4000
Benzo(b)fluoranthene	<RDL	4000
Benzo(g,h,i)perylene	<RDL	4000
Benzo(k)fluoranthene	<RDL	4000
Benzoic acid	<RDL	9600
Benzyl alcohol	<RDL	4000
bis(2-Chloroethoxy)methane	<RDL	4000
bis(2-Chloroethyl)ether	<RDL	4000
bis(2-Chloroisopropyl)ether	<RDL	4000
bis(2-Ethylhexyl)phthalate	<RDL	4000
Butyl benzyl phthalate	<RDL	4000
Carbazole	<RDL	4000
Chrysene	<RDL	4000
Di-n-butylphthalate	<RDL	4000

Di-n-octylphthalate	<RDL	4000
Dibenz(a,h)anthracene	<RDL	4000
Dibenzofuran	<RDL	4000
Diethylphthalate	<RDL	4000
Dimethylphthalate	<RDL	4000
Fluoranthene	360 J	4000
Fluorene	3400 J	4000
Hexachlorobenzene	<RDL	4000
Hexachlorobutadiene	<RDL	4000
Hexachlorocyclopentadiene	<RDL	4000
Hexachloroethane	<RDL	4000
Indeno(1,2,3-cd)pyrene	<RDL	4000
N-Nitroso-di-n-propylamine	<RDL	4000
N-Nitrosodiphenylamine	<RDL	4000
Naphthalene	4900	4000
Nitrobenzene	<RDL	4000
Pentachlorophenol	<RDL	20000
Phenanthrene	5700	4000
Phenol	<RDL	4000
Pyrene	640 J	4000

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 08/11/2000 Date Analyzed: 08/11/2000 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	5.8
1,1,2,2-Tetrachloroethane	<RDL	5.8
1,1,2-Trichloroethane	<RDL	5.8
1,1-Dichloroethane	<RDL	5.8
1,1-Dichloroethene	<RDL	5.8
1,2-Dichloroethane	<RDL	5.8
1,2-Dichloropropane	<RDL	5.8
1,2-Dichloropropene	<RDL	5.8
2-Chloroethylvinyl ether	<RDL	58
Acrolein	<RDL	58
Acrylonitrile	<RDL	58
Benzene	<RDL	5.8
Bromodichloromethane	<RDL	5.8
Bromoform	<RDL	5.8
Bromomethane	<RDL	5.8
Carbon tetrachloride	<RDL	5.8
Chlorobenzene	<RDL	5.8
Chloroform	<RDL	5.8
Chloromethane	<RDL	5.8
Ethylbenzene	220	5.8
Methyl Bromide	<RDL	5.8
Methyl Chloride	<RDL	5.8
Methyl-tert-butyl ether (MTBE)	<RDL	58
Methylene chloride	<RDL	5.8
Tetrachloroethene	<RDL	5.8
Toluene	<RDL	5.8

trans-1,2-Dichloroethene	<RDL	5.8
Trichloroethene	<RDL	5.8
Vinyl chloride	<RDL	5.8
Xylenes (Total)	<RDL	12

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	81	
4-Bromofluorobenzene (Range 80-131)	97	
Toluene-d8 (Range 82-119)	111	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	111	
2-Fluorobiphenyl (Range 50-103)	103	
2-Fluorophenol (Range 35-100)	77	
Nitrobenzene-d5 (Range 43-104)	167	
p-Terphenyl-d14 (Range 44-125)	84	
Phenol-d6 (Range 51-101)	77	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96899 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA. BLDG 1932
Client Sample ID: NASP1932 SB-7 10-14'

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids
Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	96	1.0

ANALYSIS: Metals - Mercury - RCRA Navy
Method Ref: 7471A
Date Ext/Dig/Prep: 8/18/00 Date Analyzed: 8/18/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Mercury	<RDL	0.1

ANALYSIS: Metals - RCRA Navy
Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Barium	<RDL	5.2
Cadmium	<RDL	4.2
Chromium	<RDL	7.3
Lead	<RDL	52
Selenium	<RDL	83
Silver	<RDL	7.3

ANALYSIS: Petroleum Range Organics (PRO)
Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	4700	1600

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	6900
1,2-Dichlorobenzene	<RDL	6900
1,3-Dichlorobenzene	<RDL	6900
1,4-Dichlorobenzene	<RDL	6900
2,4,5-Trichlorophenol	<RDL	3500
2,4,6-Trichlorophenol	<RDL	6900
2,4-Dichlorophenol	<RDL	6900
2,4-Dimethylphenol	<RDL	6900
2,4-Dinitrophenol	<RDL	35000
2,4-Dinitrotoluene	<RDL	6900
2,6-Dinitrotoluene	<RDL	6900
2-Chloronaphthalene	<RDL	6900
2-Chlorophenol	<RDL	6900
2-Methylnaphthalene	22000	6900
2-Methylphenol	<RDL	6900
2-Nitroaniline	<RDL	35000
2-Nitrophenol	<RDL	6900
3,3'-Dichlorobenzidine	<RDL	6900
3-Methylphenol	<RDL	6900
3-Nitroaniline	<RDL	35000
4,6-Dinitro-2-methylphenol	<RDL	35000
4-Bromophenyl phenyl ether	<RDL	6900
4-Chloro-3-methylphenol	<RDL	14000
4-Chloroaniline	<RDL	6900
4-Chlorophenyl phenyl ether	<RDL	6900
4-Methylphenol	<RDL	6900
4-Nitroaniline	<RDL	35000
4-Nitrophenol	<RDL	17000
Acenaphthene	2500 J	6900
Acenaphthylene	<RDL	6900
Anthracene	<RDL	6900
Benzo(a)anthracene	<RDL	6900
Benzo(a)pyrene	<RDL	6900
Benzo(b)fluoranthene	<RDL	6900
Benzo(g,h,i)perylene	<RDL	6900
Benzo(k)fluoranthene	<RDL	6900
Benzoic acid	<RDL	17000
Benzyl alcohol	<RDL	6900
bis(2-Chloroethoxy)methane	<RDL	6900
bis(2-Chloroethyl)ether	<RDL	6900
bis(2-Chloroisopropyl)ether	<RDL	6900
bis(2-Ethylhexyl)phthalate	<RDL	6900
Butyl benzyl phthalate	<RDL	6900
Carbazole	<RDL	6900
Chrysene	<RDL	6900
Di-n-butylphthalate	<RDL	6900

Di-n-octylphthalate	<RDL	6900
Dibenz(a,h)anthracene	<RDL	6900
Dibenzofuran	<RDL	6900
Diethylphthalate	<RDL	6900
Dimethylphthalate	<RDL	6900
Fluoranthene	<RDL	6900
Fluorene	3400 J	6900
Hexachlorobenzene	<RDL	6900
Hexachlorobutadiene	<RDL	6900
Hexachlorocyclopentadiene	<RDL	6900
Hexachloroethane	<RDL	6900
Indeno(1,2,3-cd)pyrene	<RDL	6900
N-Nitroso-di-n-propylamine	<RDL	6900
N-Nitrosodiphenylamine	<RDL	6900
Naphthalene	5400 J	6900
Nitrobenzene	<RDL	6900
Pentachlorophenol	<RDL	35000
Phenanthrene	6700 J	6900
Phenol	<RDL	6900
Pyrene	710 J	6900

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext Dig/Prep: 08/11/2000 Date Analyzed: 08/11/2000 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	230
1,1,2,2-Tetrachloroethane	<RDL	230
1,1,2-Trichloroethane	<RDL	230
1,1-Dichloroethane	<RDL	230
1,1-Dichloroethene	<RDL	230
1,2-Dichloroethane	<RDL	230
1,2-Dichloropropane	<RDL	230
1,2-Dichloropropene	<RDL	230
2-Chloroethylvinyl ether	<RDL	2300
Acrolein	<RDL	2300
Acrylonitrile	<RDL	2300
Benzene	<RDL	230
Bromodichloromethane	<RDL	230
Bromoform	<RDL	230
Bromomethane	<RDL	230
Carbon tetrachloride	<RDL	230
Chlorobenzene	<RDL	230
Chloroform	<RDL	230
Chloromethane	<RDL	230
Ethylbenzene	1200	230
Methyl Bromide	<RDL	230
Methyl Chloride	<RDL	230
Methyl-tert-butyl ether (MTBE)	<RDL	2300
Methylene chloride	<RDL	230
Tetrachloroethene	<RDL	230
Toluene	<RDL	230

trans-1,2-Dichloroethene	<RDL	230
Trichloroethene	<RDL	230
Vinyl chloride	<RDL	230
Xylenes (Total)	320 J	460

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	89	
4-Bromofluorobenzene (Range 80-131)	97	
Toluene-d8 (Range 82-119)	98	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	Diluted Out	
2-Fluorobiphenyl (Range 50-103)	Diluted Out	
2-Fluorophenol (Range 35-100)	Diluted Out	
Nitrobenzene-d5 (Range 43-104)	Diluted Out	
p-Terphenyl-d14 (Range 44-125)	Diluted Out	
Phenol-d6 (Range 51-101)	Diluted Out	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96900 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA, BLDG 1932
Client Sample ID: NASP1932 SB-1 10-14

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3
Date Ext/Dig/Prep: 8/10/00 Date Analyzed: 8/10/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
Solids	95	1.0

ANALYSIS: As,Cd,Cr,Pb (soils) Method Ref: 3050B/6010B
Date Ext/Dig/Prep: 8/14/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Arsenic	<RDL	63
Cadmium	<RDL	4.2
Chromium	<RDL	7.4
Lead	<RDL	53

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/15/00 Result Units: mg/Kg

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	6500	1600

ANALYSIS: SVOC's Navy Method Ref: 8270C
Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: ug/Kg

Analyte Name	Analytical Results	Reported Detection Limits
1,2,4-Trichlorobenzene	<RDL	6900
1,2-Dichlorobenzene	<RDL	6900
1,3-Dichlorobenzene	<RDL	6900
1,4-Dichlorobenzene	<RDL	6900
2,4,5-Trichlorophenol	<RDL	3500
2,4,6-Trichlorophenol	<RDL	6900
2,4-Dichlorophenol	<RDL	6900
2,4-Dimethylphenol	<RDL	6900

2,4-Dinitrophenol	<RDL	35000
2,4-Dinitrotoluene	<RDL	6900
2,6-Dinitrotoluene	<RDL	6900
2-Chloronaphthalene	<RDL	6900
2-Chlorophenol	<RDL	6900
2-Methylnaphthalene	18000	6900
2-Methylphenol	<RDL	6900
2-Nitroaniline	<RDL	35000
2-Nitrophenol	<RDL	6900
3,3'-Dichlorobenzidine	<RDL	6900
3-Methylphenol	<RDL	6900
3-Nitroaniline	<RDL	35000
4,6-Dinitro-2-methylphenol	<RDL	35000
4-Bromophenyl phenyl ether	<RDL	6900
4-Chloro-3-methylphenol	<RDL	14000
4-Chloroaniline	<RDL	6900
4-Chlorophenyl phenyl ether	<RDL	6900
4-Methylphenol	<RDL	6900
4-Nitroaniline	<RDL	35000
4-Nitrophenol	<RDL	17000
Acenaphthene	2500 J	6900
Acenaphthylene	<RDL	6900
Anthracene	<RDL	6900
Benzo(a)anthracene	<RDL	6900
Benzo(a)pyrene	<RDL	6900
Benzo(b)fluoranthene	<RDL	6900
Benzo(g,h,i)perylene	<RDL	6900
Benzo(k)fluoranthene	<RDL	6900
Benzoic acid	<RDL	17000
Benzyl alcohol	<RDL	6900
bis(2-Chloroethoxy)methane	<RDL	6900
bis(2-Chloroethyl)ether	<RDL	6900
bis(2-Chloroisopropyl)ether	<RDL	6900
bis(2-Ethylhexyl)phthalate	<RDL	6900
Butyl benzyl phthalate	<RDL	6900
Carbazole	<RDL	6900
Chrysene	<RDL	6900
Di-n-butylphthalate	<RDL	6900
Di-n-octylphthalate	<RDL	6900
Dibenz(a,h)anthracene	<RDL	6900
Dibenzofuran	<RDL	6900
Diethylphthalate	<RDL	6900
Dimethylphthalate	<RDL	6900
Fluoranthene	<RDL	6900
Fluorene	3100 J	6900
Hexachlorobenzene	<RDL	6900
Hexachlorobutadiene	<RDL	6900
Hexachlorocyclopentadiene	<RDL	6900
Hexachloroethane	<RDL	6900
Indeno(1,2,3-cd)pyrene	<RDL	6900
N-Nitroso-di-n-propylamine	<RDL	6900
N-Nitrosodiphenylamine	<RDL	6900

Naphthalene	4300 J	6900
Nitrobenzene	<RDL	6900
Pentachlorophenol	<RDL	35000
Phenanthrene	5400 J	6900
Phenol	820 J	6900
Pyrene	<RDL	6900

ANALYSIS: VOC's - Pensacola (soils) Method Ref: 8260B

Date Ext/Dig/Prep: 08/11/2000 Date Analyzed: 08/11/2000 Result Units: ug/kg

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	290
1,1,2,2-Tetrachloroethane	<RDL	290
1,1,2-Trichloroethane	<RDL	290
1,1-Dichloroethane	<RDL	290
1,1-Dichloroethene	<RDL	290
1,2-Dichloroethane	<RDL	290
1,2-Dichloropropane	<RDL	290
1,2-Dichloropropene	<RDL	290
2-Chloroethylvinyl ether	<RDL	2900
Acrolein	<RDL	2900
Acrylonitrile	<RDL	2900
Benzene	<RDL	290
Bromodichloromethane	<RDL	290
Bromoform	<RDL	290
Bromomethane	<RDL	290
Carbon tetrachloride	<RDL	290
Chlorobenzene	<RDL	290
Chloroform	<RDL	290
Chloromethane	<RDL	290
Ethylbenzene	810	290
Methyl Bromide	<RDL	290
Methyl Chloride	<RDL	290
Methyl-tert-butyl ether (MTBE)	<RDL	2900
Methylene chloride	<RDL	290
Tetrachloroethene	<RDL	290
Toluene	<RDL	290
trans-1,2-Dichloroethene	<RDL	290
Trichloroethene	<RDL	290
Vinyl chloride	<RDL	290
Xylenes (Total)	1100	580

ANALYSIS: X PRO Sample Surrogates (Soil) Method Ref: FL-PRO

Date Ext/Dig/Prep: 08/11/2000 Date Analyzed: 08/15/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 60-118)	Diluted Out	
o-Terphenyl (Range 62-109)	Diluted Out	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/11/00 Date Analyzed: 8/11/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 81-151)	85	
4-Bromofluorobenzene (Range 80-131)	99	
Toluene-d8 (Range 82-119)	98	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 9/28/00 Date Analyzed: 10/1/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
2,4,6-Tribromophenol (Range 34-117)	Diluted Out	
2-Fluorobiphenyl (Range 50-103)	Diluted Out	
2-Fluorophenol (Range 35-100)	Diluted Out	
Nitrobenzene-d5 (Range 43-104)	Diluted Out	
p-Terphenyl-d14 (Range 44-125)	Diluted Out	
Phenol-d6 (Range 51-101)	Diluted Out	

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30017. Phone (770)449-8800. FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96901 **Accura Project #: 25180**

Client: Tetra Tech Nus -Tallahassee
Client Contact: GERRY WALKER
Client Project Number: CTO-140
Client Project Name: NAS PENSACOLA. BLDG 1932
Client Sample ID: TRIP BLANK

Date Sampled: 8/8/00
Date Received: 8/9/00
Date Reported: 10/16/00
Sample Matrix: WATER

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 8/9/00 Date Analyzed: 8/9/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	1
1,1,2,2-Tetrachloroethane	<RDL	1
1,1,2-Trichloroethane	<RDL	1
1,1-Dichloroethane	<RDL	1
1,1-Dichloroethene	<RDL	1
1,2-Dichloroethane	<RDL	1
1,2-Dichloropropane	<RDL	1
1,2-Dichloropropene	<RDL	1
2-Chloroethylvinyl ether	<RDL	10
Acrolein	<RDL	10
Acrylonitrile	<RDL	10
Benzene	<RDL	1
Bromodichloromethane	<RDL	1
Bromoform	<RDL	1
Bromomethane	<RDL	1
Carbon tetrachloride	<RDL	1
Chlorobenzene	<RDL	1
Chloroform	<RDL	1
Chloromethane	<RDL	1
Ethylbenzene	<RDL	1
Methyl Bromide	<RDL	1
Methyl Chloride	<RDL	1
Methyl-tert-butyl ether (MTBE)	<RDL	10
Methylene chloride	0.9 J	5
Tetrachloroethene	RDL	1
Toluene	<RDL	1
trans-1,2-Dichloroethene	<RDL	1
Trichloroethene	<RDL	1
Vinyl chloride	<RDL	1
Xylenes (Total)	<RDL	2

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 8/9/00 Date Analyzed: 8/9/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	93	
4-Bromofluorobenzene (86-112)	99	
Toluene-d8 (84-108)	95	

Accura Analytical Laboratory, Inc.

Client Sample ID: TRIP BLANK AALSample ID #: AB96901 Accura Project #: 25180

ACCURA ANALYTICAL LABORATORY, INC.

A Multi-Service Corporation

ASTM D 422

Standard Test Method for Particle-Size Analysis of Soils (Hydrometer Analysis)

PROJECT NUMBER	G00-0019-00	SAMPLE ID	G4927-96894/2	TECH	AK
PROJECT NAME	AAL 25180	SAMPLE TYPE	BAG	DATE	8/11/00
		SAMPLE DEPTH	-	CHECK	LB

NATURAL MOISTURE CONTENT

Mass of Wet Sample & Tare, g	
Mass of Dry Sample & Tare, g	
Mass of Tare, g	
Moisture Content, %	#DIV/0!

HYGROSCOPIC MOISTURE CONTENT

Mass of Wet Sample & Tare, g	120.52
Mass of Dry Sample & Tare, g	120.26
Mass of Tare, g	35.02
Moisture Content, %	0.31

Mass of air dried sample before separation on #4 sieve & tare, g	373.31
Mass of Tare, g	0.00
Total mass of dry sample, g	372.17

Mass of air dried sample used for hydrometer analysis, g	100.69
Dry mass, g	100.38
% of total sample passing #4 sieve	100.00

SIEVE ANALYSIS

PORTION OF SAMPLE RETAINED ON #4 SIEVE

Mass of Tare, g: 0.00

Sieve Size		Sample & Tare, g	% RETAINED	%PASSING
12.0"	COBBLES		0.00	100.00
3.0"	COARSE GRAVEL		0.00	100.00
2.5"			0.00	100.00
2.0"			0.00	100.00
1.5"		0.00	0.00	100.00
1.0"		0.00	0.00	100.00
0.75"	FINE GRAVEL	0.00	0.00	100.00
0.50"		0.00	0.00	100.00
0.375"		0.00	0.00	100.00
#4	COARSE SAND	0.00	0.00	100.00

PORTION OF SAMPLE PASSING #4 SIEVE (Hydrometer Backsieve)

Sieve Size		Cumulative Mass retained, g	% PASSING
#10	MEDIUM SAND	0.05	99.95
#20		0.16	99.84
#40	FINE SAND	13.09	86.96
#60		78.21	22.09
#100		97.39	2.98
#200	FINES	97.90	2.47

HYDROMETER ANALYSIS

Length of Dispersion Period	1 Minute
Mechanical Dispersion Device ID #	AAL 116
Amount of Dispersing Agent (ml)	125.0
Specific Gravity (assumed)	2.650
Specific Gravity (tested)	
Starting time	11:40

PARTICLE-SIZE ANALYSIS

% COBBLES	0.00	% MEDIUM SAND	12.99
% COARSE GRAVEL	0.00	% FINE SAND	84.49
% FINE GRAVEL	0.00	% FINES	2.47
% COARSE SAND	0.05	% TOTAL SAMPLE	100.00

Date	Time	Testing time (min)	Reading	Temp (°C)	K	Composite Correction	Actual Reading	Effective Depth (cm)	a	Particle Diam. (mm)	Percent Passing
8/14/00	11:42	2.00	9.5	23.70	0.013	7.0	2.50	16.0	1.00	0.0373	2.5
8/14/00	11:45	5.00	8.0	23.70	0.013	7.0	1.00	16.1	1.00	0.0237	1.0
8/14/00	11:55	15.00	8.0	23.70	0.013	7.0	1.00	16.1	1.00	0.0137	1.0
8/14/00	12:10	30.00	8.0	23.70	0.013	7.0	1.00	16.1	1.00	0.0097	1.0
8/14/00	12:40	60.00	8.0	23.70	0.013	7.0	1.00	16.1	1.00	0.0068	1.0
8/14/00	15:50	250.00	8.0	24.20	0.013	7.0	1.00	16.1	1.00	0.0033	1.0
8/15/00	11:40	1440.00	8.0	23.30	0.013	7.0	1.00	16.1	1.00	0.0014	1.0

Hydrometer 152H ID #	874923	Oven ID #	AAL 109/399
Sieve Shaker ID #	AAL 119	Balance ID#	AAL 105/398

ACCURA ANALYTICAL LABORATORY, INC.

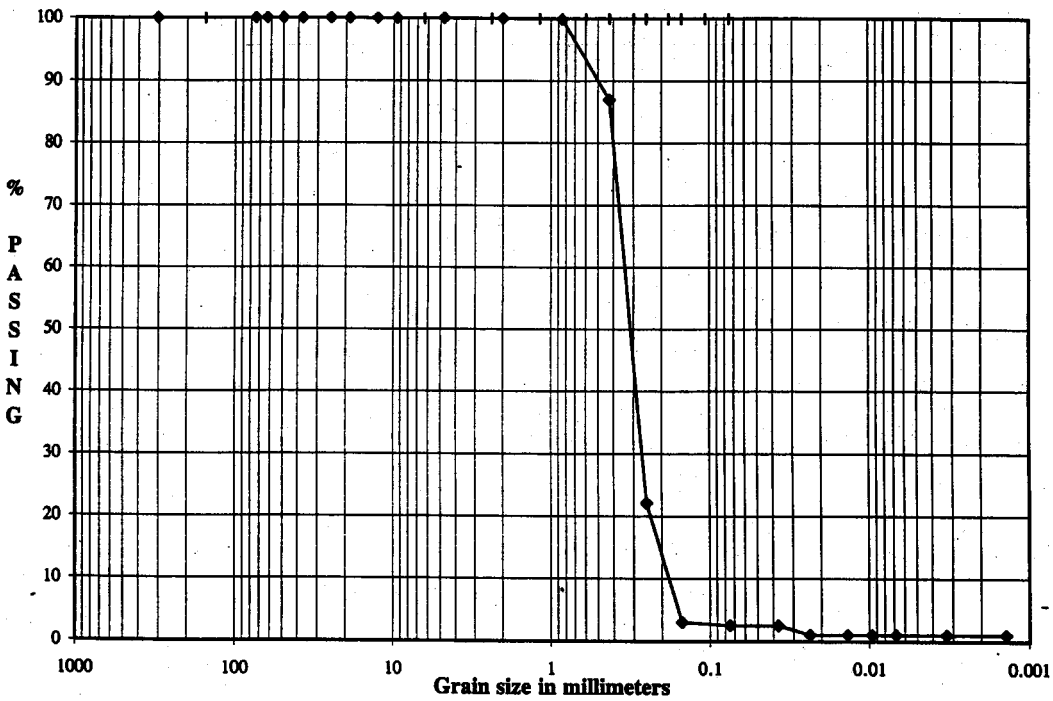
A Multi-Service Corporation

ASTM D 422

Standard Test Method for Particle-Size Analysis of Soils (Hydrometer Analysis)

PROJECT NUMBER	G00-0019-00	SAMPLE ID	G4927-96894/2	TECH	AK
PROJECT NAME	AAL 25180	SAMPLE TYPE	BAG	DATE	8/11/00
		SAMPLE DEPTH	-	CHECK	LA

Particle-Size Analysis



Boulders	Cobbles	Gravel		Sand			Silt or Clay
		Coarse	Fine	Coarse	Medium	Fine	Fines

DESCRIPTION: NA

USCS (ASTM D2487; D2488): NA

ACCURA ANALYTICAL LABORATORY, INC.

A Multi-Service Corporation

ASTM D 422

Standard Test Method for Particle-Size Analysis of Soils (Hydrometer Analysis)

PROJECT NUMBER	G00-0019-00	SAMPLE ID	G4928-96897/2	TECH	AK
PROJECT NAME	AAL 25180	SAMPLE TYPE	BAG	DATE	8/11/00
		SAMPLE DEPTH	-	CHECK	LS

NATURAL MOISTURE CONTENT

Mass of Wet Sample & Tare, g	
Mass of Dry Sample & Tare, g	
Mass of Tare, g	
Moisture Content, %	#DIV/0!

HYGROSCOPIC MOISTURE CONTENT

Mass of Wet Sample & Tare, g	136.84
Mass of Dry Sample & Tare, g	136.78
Mass of Tare, g	34.50
Moisture Content, %	0.06

Mass of air dried sample before separation on #4 sieve & tare, g	451.96
Mass of Tare, g	0.00
Total mass of dry sample, g	451.70

Mass of air dried sample used for hydrometer analysis, g	100.79
Dry mass, g	100.73
% of total sample passing #4 sieve	100.00

SIEVE ANALYSIS

PORTION OF SAMPLE RETAINED ON #4 SIEVE

Mass of Tare, g: 0.00

Sieve Size		Sample & Tare, g	% RETAINED	%PASSING
12.0"	COBBLES		0.00	100.00
3.0"	COARSE GRAVEL		0.00	100.00
2.5"			0.00	100.00
2.0"			0.00	100.00
1.5"		0.00	0.00	100.00
1.0"		0.00	0.00	100.00
0.75"	FINE GRAVEL	0.00	0.00	100.00
0.50"		0.00	0.00	100.00
0.375"		0.00	0.00	100.00
#4	COARSE SAND	0.00	0.00	100.00

PORTION OF SAMPLE PASSING #4 SIEVE (Hydrometer Backsieve)

Sieve Size		Cumulative Mass retained, g	% PASSING
#10	MEDIUM SAND	0.00	100.00
#20		0.04	99.96
#40	FINE SAND	15.63	84.48
#60		81.37	19.22
#100		97.29	3.42
#200	FINES	97.61	3.10

HYDROMETER ANALYSIS

Length of Dispersion Period	1 Minute
Mechanical Dispersion Device ID #	AAL 116
Amount of Dispersing Agent (ml)	125.0
Specific Gravity (assumed)	2.650
Specific Gravity (tested)	
Starting time	10:04

PARTICLE-SIZE ANALYSIS

% COBBLES	0.00	% MEDIUM SAND	15.52
% COARSE GRAVEL	0.00	% FINE SAND	81.39
% FINE GRAVEL	0.00	% FINES	3.10
% COARSE SAND	0.00	% TOTAL SAMPLE	100.00

Date	Time	Testing time (min)	Reading	Temp (°C)	K	Composite Correction	Actual Reading	Effective Depth (cm)	a	Particle Diam. (mm)	Percent Passing
8/14/00	10:06	2.00	8.5	24.00	0.013	7.0	1.50	16.1	1.00	0.0369	1.5
8/14/00	10:09	5.00	7.0	24.00	0.013	7.0	0.00	16.3	1.00	0.0235	0.0
8/14/00	10:19	15.00	7.0	24.00	0.013	7.0	0.00	16.3	1.00	0.0136	0.0
8/14/00	10:34	30.00	7.0	23.80	0.013	7.0	0.00	16.3	1.00	0.0097	0.0
8/14/00	11:04	60.00	7.0	23.80	0.013	7.0	0.00	16.3	1.00	0.0069	0.0
8/14/00	14:14	250.00	7.0	24.20	0.013	7.0	0.00	16.3	1.00	0.0033	0.0
8/15/00	10:04	1440.00	7.0	23.30	0.013	7.0	0.00	16.3	1.00	0.0014	0.0

Hydrometer 152H ID #	874923	Oven ID #	AAL 109/399
Sieve Shaker ID #	AAL 119	Balance ID#	AAL 105/398

ACCURA ANALYTICAL LABORATORY, INC.

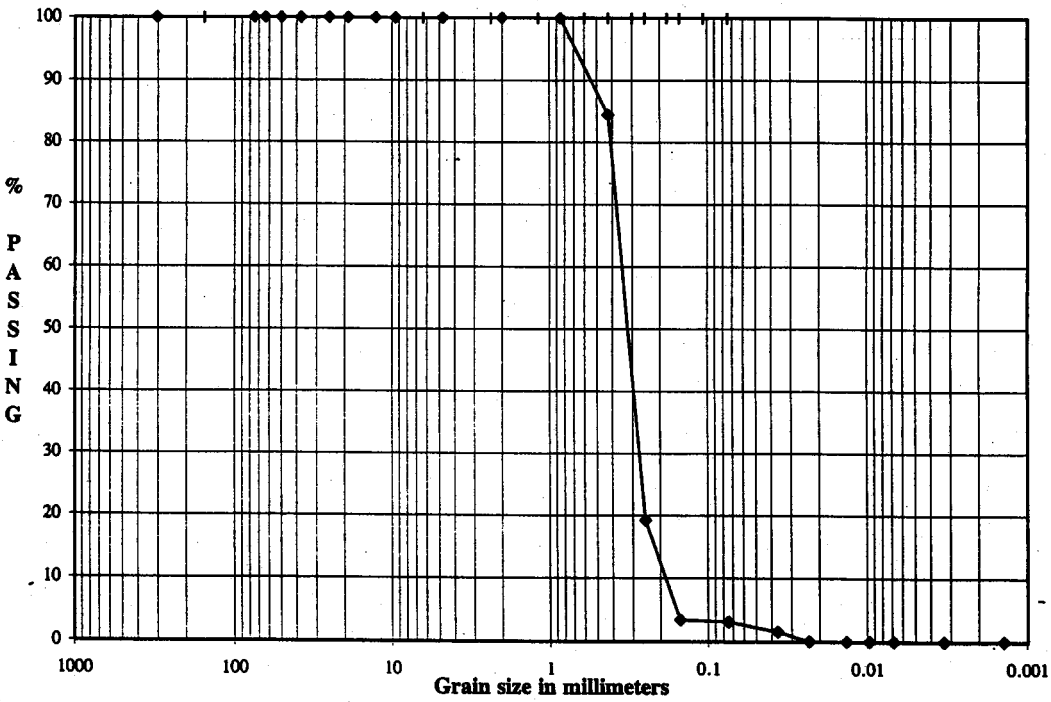
A Multi-Service Corporation

ASTM D 422

Standard Test Method for Particle-Size Analysis of Soils (Hydrometer Analysis)

PROJECT NUMBER	G00-0019-00	SAMPLE ID	G4928-96897/2	TECH	AK
PROJECT NAME	AAL 25180	SAMPLE TYPE	BAG	DATE	8/11/00
		SAMPLE DEPTH	-	CHECK	LB

Particle-Size Analysis



Boulders	Cobbles	Coarse	Fine	Coarse	Medium	Fine	Silt or Clay
		Gravel		Sand			Fines

DESCRIPTION: NA

USCS (ASTM D2487; D2488): NA

SOILS 2.XLS [HYDRO GRAPH], REV. 2, 7/12/99

APPENDIX C

Support Documentation

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

RECEIVED
OCT 19 2000
TETRA TECH NUS
TALLAHASSEE, FL

CASE NARRATIVE for Project Number: 25180-Revision
Client Project: NAS Pensacola, BLDG. 1932 / 0401 CTO-140
Task Order Manager: Gerry Walker

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 8/9/00 at 0925:

Client I.D.	Laboratory I.D.
NASP1932 SB-4 10-11.5'	AB96893
NASP1932 SB-5	AB96894
NASP1932 SB-6 10-12'	AB96895
NASP1932 DUP-1	AB96896
NASP1932 SB-3 12-14'	AB96897
NASP1932 SB-11	AB96898
NASP1932 SB-7 10-14'	AB96899
NASP1932 SB-1 10-14'	AB96900
Trip Blank	AB96901

2. The cooler temperature was 4°C upon receipt.

3. The following analyses were performed by a subcontract laboratory:
   TOC 9060M
   Grain Size ASTM-D422

4. The pH for the Trip Blank submitted for VOC analysis was less than 2.

5. The soil samples submitted for VOC analyses were transferred from the ENCORE samplers into the deionized water 40mL vials upon receipt in the laboratory on 8/9/00 at 1500.

6. The "J" flags applied to the VOC, FL-PRO, SVOC, and Metals results indicates that the analyte was detected at a concentration that was above the MDL but below the reporting limit. These results should be considered estimated.

7. The "B" flags applied to the FL-PRO and Metals results indicates that the analyte was detected in the Method Blank at a concentration above the MDL and the concentration in the samples was less than ten times the concentration in the Method Blank. These results should be considered estimated.

8. The following samples were analyzed by method 5030 due to the nature of the matrix:
   VOC SW-846-8260B

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

8. The following samples were analyzed by method 5030 due to the nature of the matrix:

   VOC SW-846-8260B
   NASP1932 SB-5
   NASP1932 DUP-1
   NASP1932 SB-3 12-14'
   NASP1932 SB-7 10-14'
   NASP1932 SB-1 10-14'

   The remaining VOC analyses were performed by method 5035.

9. The following samples required dilution due to high analyte concentration and/or the nature of the matrix, resulting in elevated detection limits:

VOC SW-846-8260B	FL-PRO	SVOC SW-846-8270C
NASP1932 SB-5	NASP1932 SB-5	NASP1932 SB-3 12-14'
NASP1932 DUP-1	NASP1932 DUP-1	NASP1932 SB-11
NASP1932 SB-3 12-14'	NASP1932 SB-3 12-14'	NASP1932 SB-7 10-14'
NASP1932 SB-7 10-14'	NASP1932 SB-11	NASP1932 SB-1 10-14'
NASP1932 SB-1 10-14'	NASP1932 SB-7 10-14'	
	NASP1932 SB-1 10-14'	

10. The following surrogates were outside the method specified limits due to matrix interference:

VOC SW-846-8260B	
1,2-Dichloroethane-d4	(NASP1932 SB-4 10-11.5')
1,2-Dichloroethane-d4	(NASP1932 SB-6 10-12')

SVOC SW-846-8270C	
Nitrobenzene-d5	(NASP1932 SB-5)
Nitrobenzene-d5	(NASP1932 DUP-1)
Nitrobenzene-d5	(NASP1932 SB-3 12-14')
Nitrobenzene-d5	(NASP1932 SB-11)
2-Fluorobiphenyl	(NASP1932 SB-3 12-14')
2,4,6-Tribromophenol	(NASP1932 SB-3 12-14')

11. The following surrogate recoveries were outside the method specified limits:

FL-PRO	
Nonatriacontane (C39)	ortho-Terphenyl
NASP1932 SB-4 10-11.5'	NASP1932 SB-3 12-14'
NASP1932 SB-6 10-12'	
NASP1932 DUP-1	
NASP1932 SB-3 12-14'	
Method Blank	
Laboratory Control Sample	
NASP1932 SB-4 10-11.5'MS	
NASP1932 SB-4 10-11.5'MSD	

All surrogate recoveries were within established historical in-house limits.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

12. The surrogates were diluted out for the following samples; therefore no recoveries could be reported:

    FL-PRO
    NASP1932 SB-5
    NASP1932 SB-11
    NASP1932 SB-7 10-14'
    NASP1932 SB-1 10-14'

    SVOC SW-846-8270C
    NASP1932 SB-7 10-14'
    NASP1932 SB-1 10-14'

13. The following samples were extracted 37 days outside the EPA recommended holding time:

    SVOC SW-846-8270C
    NASP1932 SB-4 10-11.5'
    NASP1932 SB-5
    NASP1932 SB-6 10-12'
    NASP1932 DUP-1
    NASP1932 SB-3 12-14'
    NASP1932 SB-11
    NASP1932 SB-7 10-14'
    NASP1932 SB-1 10-14'

    The results for these samples should be considered estimated.

14. No recovery is reported for the following analyte because it was not included in the spike mixture:

    SVOC SW-846-8270C
    3-Methylphenol

15. The Laboratory Control Sample was outside the client specified limit for the following analyte:

    SVOC SW-846-8270C
    2,4-Dinitrophenol

    The results for this analyte should be considered estimated.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

16. The recoveries for the following analytes were biased high outside the method specified limits for the Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate analyses:

    VOC SW-846-8260B
    Acrolein
    Acrylonitrile
    Chloromethane
    Methyl-tert-butyl ether

    No hits were reported for any of these analytes for the samples submitted with this project: therefore the data was accepted.

17. The recoveries for the following analytes were biased low outside the method specified limits for the Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate :

WATER VOC SW-846-8260B	SVOC SW-846-8270C
2-Chloroethylvinyl ether	Benzoic Acid

    The results for these analytes should be considered estimated.

18. The recovery for the Laboratory Control Sample associated with the FL-PRO analyses was outside the method specified limits but within established in-house limits; therefore the data was accepted.

19. The relative percent difference between the Matrix Spike and Matrix Spike Duplicate analyses was outside the method specified limit for the following analyte due to sample heterogeneity:

WATER VOC SW-846-8260B	SVOC SW-846-8270C
2-Chloroethylvinyl ether	Benzoic Acid

20. Per client request, the SVOC analysis was performed for the samples outside the EPA recommended holding time.

Quality Assurance

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABS (AAL), INC.
Accura Geotechnical Laboratory
3342 International Park Drive, Atlanta, GA 30316
Phone: (404) 248-5405 Fax:(404) 248-5424

August 17, 2000

Accura Analytical Laboratory
6017 Financial Drive
Atlanta, GA 30071

Attention: Mr. Jeff Wilmoth
Accura Analytical Labs Inc.

Subject: Transmittal of Test Data
Accura Analytical Labs Inc. Project Numbers: 25180
Accura Geotechnical Laboratory
Project Numbers G00-0019-00
Soils Testing

Dear Mr. Wilmoth:

Accura is pleased to provide you with this final report for the soil testing. The geotechnical testing consisted of particle size analysis with hydrometer. The samples arrived at the laboratory in bags. The total testing consisted of 2 particle size analyses with hydrometer. The samples were considered to be environmental.

Please find enclosed for your convenience the individual test reports. Also, enclosed is an invoice for your review and approval. If you have any questions or require additional information, please do not hesitate to contact us at (404) 248-5408.

Sincerely,
Accura Geotechnical Laboratory

Philip Kyle
Project Manager

Enclosures: Report
Invoice

21772

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NUS
Address: 1401 Oven Park Dr. Tallahassee FL 32312
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 8178503859899 Fax # 850385
Project Name: NAS Pensacola, Bldg 1932
Project Number: 0401

Billing address:
Client P.O. #
Custody Seal:
QC Level:
Sample Condition:

Samplers: (signature)
Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC (Encore)	TRPH PHA SVOC (Pesticides, Herbicides)	Pb		TOC	Grain Size (Sieve)					Remarks	Accura Sample ID No. AB
NASP1932SB-4 10-11.5'	8/8/00 1335		✓	S	N	Bldg 1932		4	1	1	1							TOC 2 14' Limited Soils	
★ NASP1932SB-5	8/8/00 1505		✓	S	N			4	1	1		1						~~TOC 3 14'~~ Limited Soils	
NASP1932SB-6 10-12'	8/8/00 1415		✓	S	N			4	1	1	1							TOC 2 14' Limited Amount of Soil to take Sample	
NASP1932 DUP-1	8/8/00		✓	S	N			4	1	1								Limited Amount of Soils for Sampling	
★ NASP1932 SB3, 12-14'	8/8/00 1620		✓	S	N			4	1	1		1						" "	
★ NASP1932SB-16	8/8/00 1645		✓	S	N			4	1	~~1~~ DW			1	1					
★ NASP1932SB-7, 10-12 ~~14-15~~	8/8/00 1725		✓	S	N			4	1	~~1~~ DW			1	1					
★ NASP1932SB-1 10-14'	8/8/00 1755		✓	S	N			4	1	1		1							
Trip Blanks			✓	W	Y			2											

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartwell	8/8/00 1900	Fed-Ex	8/9/00 9:05	★ Hot Samples
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
Fed-Ex	8/9/00 9:25	Kavitha Arun	8/9/00 9:25	

Tetra Tech NUS, Inc. **Internal Correspondence**

TO:	**Mr. Gerald Walker**		**DATE: July 31, 2001**
FROM:	**Suzanne Smith**	**CC:**	**File**
SUBJECT:	**Organic and Inorganic Data Validation – VOC, EDB, SVOC, PAH, TRPH, and Metals** **CTO140 – NAS Pensacola, Building 1932** **SDG 27775**		
SAMPLES:	**11/Aqueous**		

DUP-1	**EB-1**	**MW-10**	**MW-12**	**MW-13**
MW-17	**MW-22**	**MW-23**	**MW-25D**	**MW-3**
TB140050101				

OVERVIEW

The sample set for CTO140, SDG 27775; Naval Air Station Pensacola, Building 1932, Pensacola, Florida consists of nine (9) aqueous environmental samples, one (1) equipment blank and one (1) trip blank. The environmental samples and equipment blank were analyzed for Volatile Organic Carbons (VOCs), EDB, Semi-Volatile Organic Carbons (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Residual Petroleum Hydrocarbons (TRPHs), and select Metals. The trip blank was analyzed for VOCs only. A duplicate pair was included in this SDG: MW-22 / DUP-1.

The samples were collected by Tetra Tech NUS on May 1 and 2, 2001 and analyzed by Accura Analytical Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8260B (VOCs), EPA Method 504.1 (EDB), SW-846 method 8270C (SVOCs), SW-846 method 8310 (PAHs), FL-PRO (TRPHs), and SW-846 6010B (select Metals) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- Data Completeness
- * Holding Times
- Laboratory method/field quality control blank results
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

Note : There are two sets of data for the Volatiles portion of this SDG. Originally, the compounds reported did not match those requested in the Statement of Work so the data had to be resubmitted with different compounds. The Volatiles spreadsheet for the SDG contains data from both submittals.

Volatile and EDB Fractions

Lab Blank Analysis

Samples Affected: DUP-1, MW-22, MW-23 (methylene chloride)

Analyte	Maximum Concentration (ug/L)	Action Limit (ug/L)
Chlorobenzene	0.62	3.1
Methylene Chloride	0.64	3.2
MTBE	0.78	3.9
Toluene	1.2	6
Xylenes	0.85	4.25

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in laboratory method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Semivolatile Fraction

All quality control criteria were met for this fraction.

Polycyclic Aromatic Hydrocarbon Fraction

Blank Analysis

Samples Affected: MW-10 and MW-23

	Maximum Concentration (ug/L)	Action Limit (ug/L)
Naphthalene	0.49	2.45

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Total Residual Petroleum Fraction

Blank Analysis

Samples Affected: MW-10, MW-12, MW-13, MW-17, MW-25D, and MW-3

	Maximum Concentration (mg/L)	Action Limit (mg/L)
TRPH	0.90	4.5

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Metals Fraction

Blank Analysis

Samples Affected: DUP-1, MW-10, MW-12, MW-13, MW-17, MW-22, MW-23, and MW-3

	Maximum Concentration (mg/L)	Action Limit (mg/L)
Chromium	0.0014	0.007
Lead	0.0077	0.0385

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination. All quality control criteria were met for this fraction.

Duplicate Sample Analysis

	MW-22 (ug/L)	DUP-1 (ug/L)	%RPD
3,4-Methylphenol	1.9	ND	NA
1-methylnaphthalene (PAHs)	ND	0.66	NA
2-methylnaphthalene (PAHs)	ND	0.72	NA
Acenaphthene (PAHs)	ND	0.5	NA
Fluorene (PAHs)	ND	0.3	NA
TRPH	18 mg/L	20 mg/L	11

No qualifications were made due to duplicate sample analysis.

Executive Summary

Laboratory performance: Positive results for methylene chloride less than the action level were qualified as nondetects (U) as a result of blank contamination for samples DUP-1, MW-22, and MW-23. Positive results for Naphthalene in the PAH fraction less than the action level were qualified as nondetects (U) as a result of blank contamination for samples MW-10 and MW-23. Positive results for TRPH less than the action level were qualified as nondetects (U) as a result of blank contamination for samples MW-10, MW-12, MW-13, MW-17, MW-25D, and MW-3. Positive results for Chromium and Lead less than the action level were qualified as nondetects (U) as a result of blank contamination for samples DUP-1, MW-10, MW-12, MW-13, MW-17, MW-22, MW-23, and MW-3

Other factors affecting data quality: No other factors affected data quality.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Suzanne I. Smith
Project Chemist
Tetra Tech NUS, Inc.

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

no

SAMPLE NUMBER:	DUP-1	EB-1	MW-10	MW-12
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	05/02/01
LABORATORY ID:	AC12707	AC12706	AC12701	AC12704
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	mw-22			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	2.5	U		2.5	U		2.5	U		2.5	U	
1,1,1-TRICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,1,2,2-TETRACHLOROETHANE		U			U			U			U	
1,1,2-TRICHLOROETHANE		U			U			U			U	
1,1-DICHLOROETHANE		U			U			U			U	
1,1-DICHLOROETHENE		U			U			U			U	
1,2,3-TRICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2,3-TRICHLOROPROPANE	16	U		16	U		16	U		16	U	
1,2,4-TRICHLOROBENZENE	2	U		2	U		2	U		2	U	
1,2,4-TRIMETHYLBENZENE	6.5	U		6.5	U		6.5	U		6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	13	U		13	U		13	U		13	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U		0.05	U		0.05	U	
1,2-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2-DICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,2-DICHLOROPROPANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,3,5-TRIMETHYLBENZENE	2.5	U		2.5	U		2.5	U		2.5	U	
1,3-DICHLOROBENZENE	6	U		6	U		6	U		6	U	
1,3-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
2,2-DICHLOROPROPANE	17.5	U		17.5	U		17.5	U		17.5	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
2-CHLOROTOLUENE	2	U		2	U		2	U		2	U	
4-CHLOROTOLUENE	3	U		3	U		3	U		3	U	
4-ISOPROPYLTOLUENE	6	U		6	U		6	U		6	U	
ACROLEIN	10	U		10	U		10	U		10	U	
ACRYLONITRILE	10	U		10	U		10	U		10	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMOBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
BROMOCHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMODICHLOROMETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
BROMOFORM		U			U			U			U	
BROMOMETHANE		U			U			U			U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLOROBENZENE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLORODIBROMOMETHANE	2.5	U		2.5	U		2.5	U		2.5	U	
CHLOROETHANE	5.	U		5.	U		5.	U		5.	U	
CHLOROFORM	1.0	U		1.0	U		1.0	U				
CHLOROMETHANE	1.0	U		1.0	U		1.0	U				
CIS-1,2-DICHLOROETHENE	6.	U		6.	U		6.	U		6.	U	
DIBROMOMETHANE	12.	U		12.	U		12.	U		12.	U	
DICHLORODIFLUOROMETHANE	5.	U		5.	U		5.	U		5.	U	
ETHYLBENZENE	1.0	U		1.0	U					1.0	U	
HEXACHLOROBUTADIENE	5.5	U		5.5	U		5.5	U		5.5	U	
ISOPROPYLBENZENE	2.5	U		2.5	U		2.5	U		2.5	U	
METHYL TERT-BUTYL ETHER	10	U					10	U		10	U	
METHYLENE CHLORIDE	5.0	U	PA	5.0	U		5.0	U		5.0	U	
N-BUTYLBENZENE	5.5	U		5.5	U		5.5	U		5.5	U	
N-PROPYLBENZENE	2.	U		2.	U		2.	U		2.	U	
SEC-BUTYLBENZENE	6.5	U		6.5	U		6.5	U		6.5	U	
STYRENE	2.	U		2.	U		2.	U		2.	U	
TERT-BUTYLBENZENE	7.	U		7.	U		7.	U		7.	U	
TETRACHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TOLUENE	1.0	U					1.0	U		1.0	U	
TOTAL XYLENES	2.0	U					2.0	U		2.0	U	
TRANS-1,2-DICHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TRANS-1,3-DICHLOROPROPENE	5.	U		5.	U		5.	U		5.	U	
TRICHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TRICHLOROFLUOROMETHANE	4.	U		4.	U		4.	U		4.	U	
VINYL CHLORIDE	1.0	U		1.0	U		1.0	U		1.0	U	
Naphthalene	2.0	U		2.0	U					2.0	U	
1,3-Dichloropropene	1.0	U		1.0	U		1.0	U		1.0	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	2.5	U		2.5	U		2.5	U		2.5	U	
1,1,1-TRICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2,3-TRICHLOROPROPANE	16	U		16	U		16	U		16	U	
1,2,4-TRICHLOROBENZENE	2	U		2	U		2	U		2	U	
1,2,4-TRIMETHYLBENZENE	6.5	U		6.5	U		6.5	U				
1,2-DIBROMO-3-CHLOROPROPANE	13	U		13	U		13	U		13	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U		0.05	U		0.05	U	
1,2-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2-DICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1.0	U	
1,3,5-TRIMETHYLBENZENE	2.5	U		2.5	U		2.5	U				
1,3-DICHLOROBENZENE	6	U		6	U		6	U		6	U	
1,3-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
2,2-DICHLOROPROPANE	17.5	U		17.5	U		17.5	U		17.5	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
2-CHLOROTOLUENE	2	U		2	U		2	U		2	U	
4-CHLOROTOLUENE	3	U		3	U		3	U		3	U	
4-ISOPROPYLTOLUENE	6	U		6	U		6	U				
ACROLEIN	10	U		10	U		10	U		10	U	
ACRYLONITRILE	10	U		10	U		10	U		10	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMOBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
BROMOCHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMODICHLOROMETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	~~1~~ 1.0	U		~~1~~ 1.0	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
CHLOROBENZENE	~~2~~ ↓	U		~~2~~ ↓	U		~~2~~ ↓	U		~~2~~ ↓	U	
- CHLORODIBROMOMETHANE	~~3~~ 2.5	U		~~3~~ 2.5	U		~~3~~ 2.5	U		~~3~~ 2.5	U	
- CHLOROETHANE	5.	U		5.	U		5.	U		5.	U	
CHLOROFORM	[redacted]			~~2~~ 1.0	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
CHLOROMETHANE	~~7~~ 1.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U	
- CIS-1,2-DICHLOROETHENE	6.	U		6.	U		6.	U		6.	U	
- DIBROMOMETHANE	12.	U		12.	U		12.	U		12.	U	
- DICHLORODIFLUOROMETHANE	5.	U		5.	U		5.	U		5.	U	
ETHYLBENZENE	~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
- HEXACHLOROBUTADIENE	~~8~~ 5.5	U		~~8~~ 5.5	U		~~8~~ 5.5	U		~~8~~ 5.5	U	
- ISOPROPYLBENZENE	~~3~~ 2.5	U		~~3~~ 2.5	U		~~3~~ 2.5	U		~~3~~ 2.5	U	
METHYL TERT-BUTYL ETHER	~~2~~ 10	U		~~2~~ 10	U		~~2~~ 10	U		~~5~~ 10	U	
METHYLENE CHLORIDE	~~2~~ 5.0	U		~~2~~ 5.0	U		~~2~~ 5.0	~~2~~ U	A ~~2~~	~~1~~ 5.0	~~2~~ U	~~2~~ A
- N-BUTYLBENZENE	~~8~~ 5.5	U		~~8~~ 5.5	U		~~8~~ 5.5	U		[redacted]		
- N-PROPYLBENZENE	2.	U		2.	U		2.	U		2.	U	
- SEC-BUTYLBENZENE	~~7~~ 6.5	U		~~7~~ 6.5	U		~~7~~ 6.5	U		~~7~~ 6.5	U	
- STYRENE	2.	U		2.	U		2.	U		2.	U	
- TERT-BUTYLBENZENE	7.	U		7.	U		7.	U		7.	U	
TETRACHLOROETHENE	~~7~~ 1.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U	
TOLUENE	~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
TOTAL XYLENES	~~8~~ 2.0	U		~~8~~ 2.0	U		~~8~~ 2.0	U		[redacted]		
TRANS-1,2-DICHLOROETHENE	~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
- TRANS-1,3-DICHLOROPROPENE	5.	U		5.	U		5.	U		5.	U	
TRICHLOROETHENE	~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
- TRICHLOROFLUOROMETHANE	4.	U		4.	U		4.	U		4.	U	
VINYL CHLORIDE	~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
- Naphthalene	2.0	U		2.0	U		2.0	U		[redacted]		
1,3-Dichloropropene	1.0	U		1.0	U		1.0	U		1.0	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

no

SAMPLE NUMBER:	MW-25D			MW-3			TB140050101					
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			/ /		
LABORATORY ID:	AC12709			AC12702			AC12711					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	0.0 %			0.0 %			0.0 %			100.0 %		
UNITS:	UG/L			UG/L			UG/L					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	2.5	U		2.5	U		2.5	U				
1,1,1-TRICHLOROETHANE	1.0	U		1.0	U		1.0	U				
1,1,2,2-TETRACHLOROETHANE		U			U			U				
1,1,2-TRICHLOROETHANE		U			U			U				
1,1-DICHLOROETHANE		U			U			U				
1,1-DICHLOROETHENE		U			U			U				
1,2,3-TRICHLOROBENZENE	1.5	U		1.5	U		1.5	U				
1,2,3-TRICHLOROPROPANE	16	U		16	U		16	U				
1,2,4-TRICHLOROBENZENE	2	U		2	U		2	U				
1,2,4-TRIMETHYLBENZENE	6.5	U		6.5	U		6.5	U				
1,2-DIBROMO-3-CHLOROPROPANE	13	U		13	U		13	U				
1,2-DIBROMOETHANE	0.05	U		0.05	U			U				
1,2-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U				
1,2-DICHLOROETHANE	1.0	U		1.0	U		1.0	U				
1,2-DICHLOROPROPANE		U			U			U				
1,3,5-TRIMETHYLBENZENE	2.5	U		2.5	U		2.5	U				
1,3-DICHLOROBENZENE	6	U		6	U		6	U				
1,3-DICHLOROPROPANE	2	U		2	U		2	U				
1,4-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U				
2,2-DICHLOROPROPANE	17.5	U		17.5	U		17.5	U				
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U				
2-CHLOROTOLUENE	2	U		2	U		2	U				
4-CHLOROTOLUENE	3	U		3	U		3	U				
4-ISOPROPYLTOLUENE	6	U		6	U		6	U				
ACROLEIN	10	U		10	U		10	U				
ACRYLONITRILE	10	U		10	U		10	U				
BENZENE	1	U		1	U		1	U				
BROMOBENZENE	1.5	U		1.5	U		1.5	U				
BROMOCHLOROMETHANE	2	U		2	U		2	U				
BROMODICHLOROMETHANE	1.0	U		1.0	U		1.0	U				
BROMOFORM		U			U			U				
BROMOMETHANE		U			U			U				

← not analyzed for this parameter

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D	MW-3	TB140050101	
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	/ /
LABORATORY ID:	AC12709	AC12702	AC12711	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	1.0	U		1.0	U		1.0	U				
CHLOROBENZENE	1.0	U		↓	U		[redacted]					
CHLORODIBROMOMETHANE	2.5	U		2.5	U		2.5	U				
CHLOROETHANE	5.	U		5.	U		5.	U				
CHLOROFORM	1.0	U		1.0	U		1.0	U				
CHLOROMETHANE	1.0	U		↓	U		↓	U				
CIS-1,2-DICHLOROETHENE	6.	U		6.	U		6.	U				
DIBROMOMETHANE	12.	U		12.	U		12.	U				
DICHLORODIFLUOROMETHANE	5.	U		5.	U		5.	U				
ETHYLBENZENE	1.0	U		1.0	U		1.0	U				
HEXACHLOROBUTADIENE	5.5	U		5.5	U		5.5	U				
ISOPROPYLBENZENE	2.5	U		2.5	U		2.5	U				
METHYL TERT-BUTYL ETHER	10	U		10	U		10	U				
METHYLENE CHLORIDE	5.0	U		5.0	U		[redacted]					
N-BUTYLBENZENE	5.5	U		5.5	U		5.5	U				
N-PROPYLBENZENE	2.	U		2.	U		2.	U				
SEC-BUTYLBENZENE	6.5	U		6.5	U		6.5	U				
STYRENE	2.	U		2.	U		2.	U				
TERT-BUTYLBENZENE	7.	U		7.	U		7.	U				
TETRACHLOROETHENE	1.0	U		1.0	U		1.0	U				
TOLUENE	1.0	U		↓	U		↓	U				
TOTAL XYLENES	2.0	U		2.0	U		2.0	U				
TRANS-1,2-DICHLOROETHENE	1.0	U		1.0	U		1.0	U				
TRANS-1,3-DICHLOROPROPENE	5.	U		5.	U		5.	U				
TRICHLOROETHENE	1.0	U		1.0	U		1.0	U				
TRICHLOROFLUOROMETHANE	4.	U		4.	U		4.	U				
VINYL CHLORIDE	1.0	U		1.0	U		1.0	U				
Naphthalene	2.0	U		2.0	U		2.0	U				
1,3-Dichloropropene	1.0	U		1.0	U		1.0	U				

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	MW-22											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,2-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,3-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,4-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
2,4,5-TRICHLOROPHENOL	50	U		50	U		50	U		50	U	
2,4,6-TRICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DIMETHYLPHENOL	10	U		10	U		10	U		10	U	
2,4-DINITROPHENOL	50	U		50	U		50	U		50	U	
2,4-DINITROTOLUENE	10	U		10	U		10	U		10	U	
2,6-DINITROTOLUENE	10	U		10	U		10	U		10	U	
2-CHLORONAPHTHALENE	10	U		10	U		10	U		10	U	
2-CHLOROPHENOL	10	U		10	U		10	U		10	U	
2-METHYLNAPHTHALENE	10	U		10	U		10	U		10	U	
2-METHYLPHENOL	10	U		10	U		10	U		10	U	
2-NITROANILINE	50	U		50	U		50	U		50	U	
2-NITROPHENOL	10	U		10	U		10	U		10	U	
3,3'-DICHLOROBENZIDINE	20	U		20	U		20	U		20	U	
3-NITROANILINE	50	U		50	U		50	U		50	U	
4,6-DINITRO-2-METHYLPHENOL	50	U		50	U		50	U		50	U	
4-BROMOPHENYL PHENYL ETHER	10	U		10	U		10	U		10	U	
4-CHLORO-3-METHYLPHENOL	20	U		20	U		20	U		20	U	
4-CHLOROANILINE	20	U		20	U		20	U		20	U	
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U		10	U		10	U	
4-NITROANILINE	50	U		50	U		50	U		50	U	
4-NITROPHENOL	50	U		50	U		50	U		50	U	
ACENAPHTHENE	10	U		10	U		10	U		10	U	
ACENAPHTHYLENE	10	U		10	U		10	U		10	U	
ANTHRACENE	10	U		10	U		10	U		10	U	
BENZIDINE	10	U		10	U		10	U		10	U	
BENZO(A)ANTHRACENE	10	U		10	U		10	U		10	U	
BENZO(A)PYRENE	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	10	U		10	U		10	U		10	U	
BENZO(G,H,I)PERYLENE	10	U		10	U		10	U		10	U	
BENZO(K)FLUORANTHENE	10	U		10	U		10	U		10	U	
BENZOIC ACID	50	U		50	U		50	U		50	U	
BENZYL ALCOHOL	20	U		20	U		20	U		20	U	
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U		10	U		10	U	
BIS(2-CHLOROETHYL)ETHER	10	U		10	U		10	U		10	U	
BIS(2-CHLOROISOPROPYL)ETHER	10	U		10	U		10	U		10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U		10	U		10	U		10	U	
BUTYL BENZYL PHTHALATE	10	U		10	U		10	U		10	U	
CARBAZOLE	10	U		10	U		10	U		10	U	
CHRYSENE	10	U		10	U		10	U		10	U	
DI-N-BUTYL PHTHALATE	10	U		10	U		10	U		10	U	
DI-N-OCTYL PHTHALATE	10	U		10	U		10	U		10	U	
DIBENZO(A,H)ANTHRACENE	10	U		10	U		10	U		10	U	
DIBENZOFURAN	10	U		10	U		10	U		10	U	
DIETHYL PHTHALATE	10	U		10	U		10	U		10	U	
DIMETHYL PHTHALATE	10	U		10	U		10	U		10	U	
FLUORANTHENE	10	U		10	U		10	U		10	U	
FLUORENE	10	U		10	U		10	U		10	U	
HEXACHLOROBENZENE	10	U		10	U		10	U		10	U	
HEXACHLOROBUTADIENE	10	U		10	U		10	U		10	U	
HEXACHLOROCYCLOPENTADIENE	10	U		10	U		10	U		10	U	
HEXACHLOROETHANE	10	U		10	U		10	U		10	U	
INDENO(1,2,3-CD)PYRENE	10	U		10	U		10	U		10	U	
ISOPHORONE	10	U		10	U		10	U		10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U		10	U		10	U	
N-NITROSODIMETHYLAMINE	10	U		10	U		10	U		10	U	
N-NITROSODIPHENYLAMINE	10	U		10	U		10	U		10	U	
NAPHTHALENE	10	U		10	U		10	U		10	U	
NITROBENZENE	10	U		10	U		10	U		10	U	
PENTACHLOROPHENOL	50	U		50	U		50	U		50	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1	EB-1	MW-10	MW-12
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	05/02/01
LABORATORY ID:	AC12707	AC12706	AC12701	AC12704
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PHENANTHRENE	10	U		10	U		10	U		10	U	
PHENOL	10	U		10	U		10	U		10	U	
~~PHOSPHORUS, TOTAL AS P~~ 3+4methylphenol	20	U		20	U		20	U		20	U	
PYRENE	10	U		10	U		10	U		10	U	
1,2-Diphenylhydrazine (azobenzene)	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,2-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,3-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
1,4-DICHLOROBENZENE	10	U		10	U		10	U		10	U	
2,4,5-TRICHLOROPHENOL	50	U		50	U		50	U		50	U	
2,4,6-TRICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DICHLOROPHENOL	10	U		10	U		10	U		10	U	
2,4-DIMETHYLPHENOL	10	U		10	U		10	U		10	U	
2,4-DINITROPHENOL	50	U		50	U		50	U		50	U	
2,4-DINITROTOLUENE	10	U		10	U		10	U		10	U	
2,6-DINITROTOLUENE	10	U		10	U		10	U		10	U	
2-CHLORONAPHTHALENE	10	U		10	U		10	U		10	U	
2-CHLOROPHENOL	10	U		10	U		10	U		10	U	
2-METHYLNAPHTHALENE	10	U		10	U		10	U		[redacted]		
2-METHYLPHENOL	10	U		10	U		10	U		10	U	
2-NITROANILINE	50	U		50	U		50	U		50	U	
2-NITROPHENOL	10	U		10	U		10	U		10	U	
3,3'-DICHLOROBENZIDINE	20	U		20	U		20	U		20	U	
3-NITROANILINE	50	U		50	U		50	U		50	U	
4,6-DINITRO-2-METHYLPHENOL	50	U		50	U		50	U		50	U	
4-BROMOPHENYL PHENYL ETHER	10	U		10	U		10	U		10	U	
4-CHLORO-3-METHYLPHENOL	20	U		20	U		20	U		20	U	
4-CHLOROANILINE	20	U		20	U		20	U		20	U	
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U		10	U		10	U	
4-NITROANILINE	50	U		50	U		50	U		50	U	
4-NITROPHENOL	50	U		50	U		50	U		50	U	
ACENAPHTHENE	10	U		10	U		10	U		[redacted]		
ACENAPHTHYLENE	10	U		10	U		10	U		10	U	
ANTHRACENE	10	U		10	U		10	U		10	U	
BENZIDINE	10	U		10	U		10	U		10	U	
BENZO(A)ANTHRACENE	10	U		10	U		10	U		10	U	
BENZO(A)PYRENE	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	10	U		10	U		10	U		10	U	
BENZO(G,H,I)PERYLENE	10	U		10	U		10	U		10	U	
BENZO(K)FLUORANTHENE	10	U		10	U		10	U		10	U	
BENZOIC ACID	50	U		50	U		50	U		50	U	
BENZYL ALCOHOL	20	U		20	U		20	U		20	U	
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U		10	U		10	U	
BIS(2-CHLOROETHYL)ETHER	10	U		10	U		10	U		10	U	
BIS(2-CHLOROISOPROPYL)ETHER	10	U		10	U		10	U		10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U		10	U		10	U		10	U	
BUTYL BENZYL PHTHALATE	10	U		10	U		10	U		10	U	
CARBAZOLE	10	U		10	U		10	U		10	U	
CHRYSENE	10	U		10	U		10	U		10	U	
DI-N-BUTYL PHTHALATE	10	U		10	U		10	U		10	U	
DI-N-OCTYL PHTHALATE	10	U		10	U		10	U		10	U	
DIBENZO(A,H)ANTHRACENE	10	U		10	U		10	U		10	U	
DIBENZOFURAN	10	U		10	U		10	U		10	U	
DIETHYL PHTHALATE	10	U		10	U		10	U		10	U	
DIMETHYL PHTHALATE	10	U		10	U		10	U		10	U	
FLUORANTHENE	10	U		10	U		10	U		10	U	
FLUORENE	10	U		10	U		10	U		10	U	
HEXACHLOROBENZENE	10	U		10	U		10	U		10	U	
HEXACHLOROBUTADIENE	10	U		10	U		10	U		10	U	
HEXACHLOROCYCLOPENTADIENE	10	U		10	U		10	U		10	U	
HEXACHLOROETHANE	10	U		10	U		10	U		10	U	
INDENO(1,2,3-CD)PYRENE	10	U		10	U		10	U		10	U	
ISOPHORONE	10	U		10	U		10	U		10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U		10	U		10	U	
N-NITROSODIMETHYLAMINE	10	U		10	U		10	U		10	U	
N-NITROSODIPHENYLAMINE	10	U		10	U		10	U		10	U	
NAPHTHALENE	10	U		10	U		10	U		10	U	
NITROBENZENE	10	U		10	U		10	U		10	U	
PENTACHLOROPHENOL	50	U		50	U		50	U		50	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PHENANTHRENE	10	U		10	U		10	U		10	U	
PHENOL	10	U		10	U		10	U		10	U	
~~PHOSPHORUS, TOTAL AS P~~ 3,4-Methylphenol	20	U		20	U					20	U	
PYRENE	10	U		10	U		10	U		10	U	
1,2-Diphenylhydrazine (azobenzene)	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3								
SAMPLE DATE:	05/02/01			05/02/01			/ /			/ /		
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U		10	U							
1,2-DICHLOROBENZENE	10	U		10	U							
1,3-DICHLOROBENZENE	10	U		10	U							
1,4-DICHLOROBENZENE	10	U		10	U							
2,4,5-TRICHLOROPHENOL	50	U		50	U							
2,4,6-TRICHLOROPHENOL	10	U		10	U							
2,4-DICHLOROPHENOL	10	U		10	U							
2,4-DIMETHYLPHENOL	10	U		10	U							
2,4-DINITROPHENOL	50	U		50	U							
2,4-DINITROTOLUENE	10	U		10	U							
2,6-DINITROTOLUENE	10	U		10	U							
2-CHLORONAPHTHALENE	10	U		10	U							
2-CHLOROPHENOL	10	U		10	U							
2-METHYLNAPHTHALENE	10	U		10	U							
2-METHYLPHENOL	10	U		10	U							
2-NITROANILINE	50	U		50	U							
2-NITROPHENOL	10	U		10	U							
3,3'-DICHLOROBENZIDINE	20	U		20	U							
3-NITROANILINE	50	U		50	U							
4,6-DINITRO-2-METHYLPHENOL	50	U		50	U							
4-BROMOPHENYL PHENYL ETHER	10	U		10	U							
4-CHLORO-3-METHYLPHENOL	20	U		20	U							
4-CHLOROANILINE	20	U		20	U							
4-CHLOROPHENYL PHENYL ETHER	10	U		10	U							
4-NITROANILINE	50	U		50	U							
4-NITROPHENOL	50	U		50	U							
ACENAPHTHENE	10	U		10	U							
ACENAPHTHYLENE	10	U		10	U							
ANTHRACENE	10	U		10	U							
BENZIDINE	10	U		10	U							
BENZO(A)ANTHRACENE	10	U		10	U							
BENZO(A)PYRENE	10	U		10	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3								
SAMPLE DATE:	05/02/01			05/02/01			/ /			/ /		
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	10	U		10	U							
BENZO(G,H,I)PERYLENE	10	U		10	U							
BENZO(K)FLUORANTHENE	10	U		10	U							
BENZOIC ACID	50	U		50	U							
BENZYL ALCOHOL	20	U		20	U							
BIS(2-CHLOROETHOXY)METHANE	10	U		10	U							
BIS(2-CHLOROETHYL)ETHER	10	U		10	U							
BIS(2-CHLOROISOPROPYL)ETHER	10	U		10	U							
BIS(2-ETHYLHEXYL)PHTHALATE	10	U		10	U							
BUTYL BENZYL PHTHALATE	10	U		10	U							
CARBAZOLE	10	U		10	U							
CHRYSENE	10	U		10	U							
DI-N-BUTYL PHTHALATE	10	U		10	U							
DI-N-OCTYL PHTHALATE	10	U		10	U							
DIBENZO(A,H)ANTHRACENE	10	U		10	U							
DIBENZOFURAN	10	U		10	U							
DIETHYL PHTHALATE	10	U		10	U							
DIMETHYL PHTHALATE	10	U		10	U							
FLUORANTHENE	10	U		10	U							
FLUORENE	10	U		10	U							
HEXACHLOROBENZENE	10	U		10	U							
HEXACHLOROBUTADIENE	10	U		10	U							
HEXACHLOROCYCLOPENTADIENE	10	U		10	U							
HEXACHLOROETHANE	10	U		10	U							
INDENO(1,2,3-CD)PYRENE	10	U		10	U							
ISOPHORONE	10	U		10	U							
N-NITROSO-DI-N-PROPYLAMINE	10	U		10	U							
N-NITROSODIMETHYLAMINE	10	U		10	U							
N-NITROSODIPHENYLAMINE	10	U		10	U							
NAPHTHALENE	10	U		10	U							
NITROBENZENE	10	U		10	U							
PENTACHLOROPHENOL	50	U		50	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3								
SAMPLE DATE:	05/02/01			05/02/01			/ /			/ /		
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PHENANTHRENE	10	U		10	U							
PHENOL	10	U		10	U							
~~PHOSPHORUS, TOTAL AS P~~ 3,4-methylphenol	20	U		20	U							
PYRENE	10	U		10	U							
1,2-Diphenylhydrazine (azobenzene)	10	U		10	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:	MW-22											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	[redacted]			[redacted]			~~22.~~ 4.5	~~8~~ U	B	~~0.10~~ 1.0	~~35~~ U	B

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	~~0.7~~ 1.0	~~JB~~ U	B	~~0.46~~ 1.0	~~JB~~ U	B						

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3								
SAMPLE DATE:	05/02/01			05/02/01			/ /			/ /		
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	MG/L			MG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	~~0.57~~ 1.0	~~JB~~ U	B	~~0.49~~ 1.0	~~JB~~ U	B ~~P~~						

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:	MW-22											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.0004	U		0.0004	U		0.0004	U		0.0004	U	
CHROMIUM	0.0027 •	U	B	[redacted]			0.0022 •	U	B	0.0012 •	U	B
LEAD	0.0076 •	U	A P	[redacted]			0.0056 •	U	A	0.0043 •	U	A

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	[redacted]	05/02/01
LABORATORY ID:	AC12708	AC12703	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.0004	U		0.0004	U		[redacted]			0.0004	U	
CHROMIUM	0.0014 •	~~J~~ U	B ~~F~~	0.0018 •	~~J~~ U	B ~~F~~	0.0027 •	~~J~~ U	B ~~F~~	0.0016 •	~~J~~ U	B ~~F~~
LEAD	0.0038	U		0.0048 •	~~J~~ U	A	0.0038	U		0.0048 •	~~J~~ U	A

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3			/ /			/ /		
SAMPLE DATE:	05/02/01			05/02/01								
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	MG/L			MG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	[redacted]			0.0062	U							
CADMIUM	0.0004	U		0.0004	U							
CHROMIUM	0.0012	U		0.0016	~~U~~	B ~~F~~						
LEAD	0.0038	U		0.0038	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	(MW)-22											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	[redacted]			0.31 1.0	U		1.0			0.31 1.0	U	
2-METHYLNAPHTHALENE	[redacted]			0.3	U		0.3 1.0	U		0.3	U	
ACENAPHTHENE	[redacted]			0.29	U		[redacted]			0.29	U	
ACENAPHTHYLENE	0.2 1.0	U		0.2	U		0.2 1.0	U		0.2	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORENE	[redacted]			0.27	U		[redacted]			0.27	U	
INDENO(1,2,3-CD)PYRENE	0.25 1.0	U		0.25	U		0.25 1.0	U		0.25	U	
NAPHTHALENE	0.3	U		[redacted]			0.3 1.0	U	B	0.3	U	
PHENANTHRENE	0.26	U		0.26 1.0	U		0.26 1.0	U		0.26	U	
PYRENE	0.28	U		0.28	U		0.28	U		0.28	U	

TETRA TECH NUS INC. , Fax:4129214040 Jul 30 2001 15:39 P.14

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12708	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.31 1.0	U		0.31 1.0	U		0.31 1.0	U		[redacted]		
2-METHYLNAPHTHALENE	0.3	U		0.3	U		0.3	U		[redacted]		
ACENAPHTHENE	0.29	U		0.29	U		0.29	U		[redacted]		
ACENAPHTHYLENE	0.2	U		0.2	U		0.2	U		0.2 1.0	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		[redacted]		
FLUORENE	0.27	U		0.27	U		0.27	U		[redacted]		
INDENO(1,2,3-CD)PYRENE	0.25	U		0.25	U		0.25	U		~~0.25~~ 1.0	U	
NAPHTHALENE	0.3	U		0.3	U		0.3	U		1.5	U	B
PHENANTHRENE	0.26	U		0.26	U		0.26	U		[redacted]		
PYRENE	0.28	U		0.28	U		0.28	U		[redacted]		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D	MW-3	/ /	/ /
SAMPLE DATE:	05/02/01	05/02/01		
LABORATORY ID:	AC12709	AC12702		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.31 1.0	U		0.31 1.0	U							
2-METHYLNAPHTHALENE	0.3	U		0.3	U							
ACENAPHTHENE	0.29	U		0.29	U							
ACENAPHTHYLENE	0.2	U		0.2	U							
ANTHRACENE	0.11	U		0.11	U							
BENZO(A)ANTHRACENE	0.17	U		0.17	U							
BENZO(A)PYRENE	0.21	U		0.21	U							
BENZO(B)FLUORANTHENE	0.14	U		0.14	U							
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U							
BENZO(K)FLUORANTHENE	0.29	U		0.29	U							
CHRYSENE	0.16	U		0.16	U							
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U							
FLUORANTHENE	0.2	U		0.2	U							
FLUORENE	0.27	U		0.27	U							
INDENO(1,2,3-CD)PYRENE	0.25	U		0.25	U							
NAPHTHALENE	0.3	U		0.3	U							
PHENANTHRENE	0.26	U		0.26	U							
PYRENE	0.28	U		0.28	U							

resubmittal

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12700** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/1/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-17**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0018	J	0.050
Lead	0.0048	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.46	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	83		
Nitrobenzene-d5	(Range 37-104)	82		
p-Terphenyl-d14	(Range 15-132)	86		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	13	Z	
o-Terphenyl (Range 82-142)	86		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	95		
4-Bromofluorobenzene (80-120)	104		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	88		
2-Fluorophenol	(Range 11-114)	49		
Nitrobenzene-d5	(Range 16-125)	87		
Phenol-d6	(Range 9-109)	34		
p-Terphenyl-d14	(Range 5-157)	93		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved
LABORATORY REPORT

Accura Sample ID #: **AC12701** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/1/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-10**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0022	J	0.050
Lead	0.0056	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	1.0		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	0.69	J	1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	0.48	J	1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	0.85	J	1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	2.2	B	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: MW-10 AALSample ID #: AC12701 Accura Project #: 27775

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	1.2		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	69		
p-Terphenyl-d14	(Range 15-132)	72		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/10/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	15	Z	
o-Terphenyl (Range 82-142)	104		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	92		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	71		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	72		
Phenol-d6	(Range 9-109)	30		
p-Terphenyl-d14	(Range 5-157)	78		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12702** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-3**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.49	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: MW-3 AALSample ID #: AC12702 Accura Project #: 27775

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	80		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	12	Z	
o-Terphenyl (Range 82-142)	99		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	91		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	71		
2-Fluorophenol	(Range 11-114)	42		
Nitrobenzene-d5	(Range 16-125)	73		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	89		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12703** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-13**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0014	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.70	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: MW-13 AALSample ID #: AC12703 Accura Project #: 27775

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	1.9		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS; X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	60		
Nitrobenzene-d5	(Range 37-104)	64		
p-Terphenyl-d14	(Range 15-132)	69		

ANALYSIS; X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	18	Z	
o-Terphenyl (Range 82-142)	96		

ANALYSIS; X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	98		
4-Bromofluorobenzene (80-120)	99		
Toluene-d8 (80-119)	101		

ANALYSIS; X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	83		
2-Fluorobiphenyl	(Range 21-122)	65		
2-Fluorophenol	(Range 11-114)	36		
Nitrobenzene-d5	(Range 16-125)	65		
Phenol-d6	(Range 9-109)	23		
p-Terphenyl-d14	(Range 5-157)	76		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12704** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-12**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0012	J	0.050
Lead	0.0043	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.46	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	4.6		1
Chloromethane	0.71	J	1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	0.71	J	1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	59		
Nitrobenzene-d5	(Range 37-104)	59		
p-Terphenyl-d14	(Range 15-132)	81		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	13	Z	
o-Terphenyl (Range 82-142)	97		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	103		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	69		
2-Fluorobiphenyl	(Range 21-122)	64		
2-Fluorophenol	(Range 11-114)	34		
Nitrobenzene-d5	(Range 16-125)	60		
Phenol-d6	(Range 9-109)	23		
p-Terphenyl-d14	(Range 5-157)	87		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12705** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-22**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	0.0013	J	0.0050
Chromium	0.0027	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO) 18 5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	1.9	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.4		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	77		
Nitrobenzene-d5	(Range 37-104)	75		
p-Terphenyl-d14	(Range 15-132)	65		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	40	Z	
o-Terphenyl (Range 82-142)	95		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	102		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	120		
2-Fluorobiphenyl	(Range 21-122)	77		
2-Fluorophenol	(Range 11-114)	60		
Nitrobenzene-d5	(Range 16-125)	76		
Phenol-d6	(Range 9-109)	63		
p-Terphenyl-d14	(Range 5-157)	73		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12706** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **EB-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0014	J	0.050
Lead	0.0041	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	0.49	J	1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.90	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: EB-1 AALSample ID #: AC12706 Accura Project #: 27775

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	0.78	J	10
Tetrachloroethene	<RL		1
Toluene	1.2		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	0.85	J	2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	62		
Nitrobenzene-d5	(Range 37-104)	66		
p-Terphenyl-d14	(Range 15-132)	84		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	29	Z	
o-Terphenyl (Range 82-142)	103		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	102		
4-Bromofluorobenzene (80-120)	103		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	92		
2-Fluorobiphenyl	(Range 21-122)	67		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	67		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	84		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12707** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0027	J	0.050
Lead	0.0076	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	0.88	J	1.0
2-Methylnaphthalene	0.72	J	1.0
Acenaphthene	0.50	J	1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	0.30	J	1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	20		5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.5	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	41	Z	
Nitrobenzene-d5	(Range 37-104)	39		
p-Terphenyl-d14	(Range 15-132)	48		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	Z	
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	99		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	0	Z	
2-Fluorobiphenyl	(Range 21-122)	43		
2-Fluorophenol	(Range 11-114)	1.9	Z	
Nitrobenzene-d5	(Range 16-125)	39		
Phenol-d6	(Range 9-109)	4.7	Z	
p-Terphenyl-d14	(Range 5-157)	53		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12708** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-23**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	0.0046	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	6.5		1.0
2-Methylnaphthalene	2.5		1.0
Acenaphthene	3.8		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	0.30	J	1.0
Fluorene	3.1		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	1.5		1.0
Phenanthrene	2.7		1.0
Pyrene	0.49	J	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	39		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	2.2	J	10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	2.8	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.8	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	5.7		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	33	Z	
Nitrobenzene-d5	(Range 37-104)	31	Z	
p-Terphenyl-d14	(Range 15-132)	43		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	24	Z	
o-Terphenyl (Range 82-142)	194	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	100		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	0	Z	
2-Fluorobiphenyl	(Range 21-122)	32		
2-Fluorophenol	(Range 11-114)	1.8	Z	
Nitrobenzene-d5	(Range 16-125)	29		
Phenol-d6	(Range 9-109)	2.7	Z	
p-Terphenyl-d14	(Range 5-157)	45		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12709** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-25D**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	0.014	J	0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.57	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	68		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	85		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
C(39)	(Range 42-193)	14	Z	
o-Terphenyl	(Range 82-142)	88		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	104		
4-Bromofluorobenzene (80-120)	104		
Toluene-d8 (80-119)	103		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	96		
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	46		
Nitrobenzene-d5	(Range 16-125)	71		
Phenol-d6	(Range 9-109)	30		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved
LABORATORY REPORT

Accura Sample ID #: **AC12710** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0077	J	0.010

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0

Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.39	J	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10

Chrysene	<RL	10
Dibenz(a,h)anthracene	<RL	10
Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1

Trichloroethene	<RL	1
Vinyl chloride	<RL	1
Xylenes (Total)	<RL	2

ANALYSIS: X Base Neutral OC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl (Range 27-121)	53		
Nitrobenzene-d5 (Range 24-114)	54		
p-Terphenyl-d14 (Range 28-139)	80		

ANALYSIS: X PRO OC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	Z	
o-Terphenyl (Range 82-142)	107		

ANALYSIS: X VOC OC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	94		
4-Bromofluorobenzene (81-118)	103		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC OC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 25-127)	75		
2-Fluorobiphenyl (Range 27-121)	54		
2-Fluorophenol (Range 24-101)	35		
Nitrobenzene-d5 (Range 24-114)	52		
Phenol-d6 (Range 26-104)	27		
p-Terphenyl-d14 (Range 28-139)	90		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12711** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/1/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **TRIP BLANK**

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	0.62	J	1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	0.64	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	100		
4-Bromofluorobenzene (80-120)	102		

Toluene-d8 (80-119)	101

29912

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NUS

Billing address:

Address: 1401 Oven Park Dr. Tallahassee, F

Client P.O. #

Report Sent to: (Client Contact): Gerry Walker

Contact Phone # 850-385-9999 Fax # 850-385-9860

Project Name: NAS Pensacola, Bldg 1932

Project Number: 670-140-N0547

For Laboratory Use Only

Custody Seal: Y N

Page 1 OF 1

QC Level: N 1 2 3 4

Inj/Temp: 5.1/3

Sample Condition:

AAL Lab Project # 27977

Samplers: (signature)

Samplers: (printed) Dan Hall / Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	TMS 8260	SVOC	PD, As, Cd, Cr	PL-PRO	MS/MSD			Remarks	Accura Sample ID No. AB
MW-17	5/11/01 1510		X			Bldg 1932	12	3	2	2	2	1	2					12700
MW-10	" 1620		X			" "	12	3	2	2	2	1	2				Moderate odor	1
MW-3	5/12/01 0830		X			" "	12	3	2	2	2	1	2					2
MW-13	" 1030		X			" "	12	3	2	2	2	1	2					3
MW-12	" 1340					Bldg 1932	15	3	2	2	2	1	2	3			MS/MSD (no odor)	4
MW-22	" 1600					" "	12										petr. odors	5
MW-18-1	" 1440					" "	12											6
Trip-1	"					" "	12										petr. odors	7
MW-23	1300					" "	12										petr. odors	8
MW-25D	" 1820					" "	12											12709

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[illegible]	5/12/01 1400	[illegible]	→	Trip Blank included
Relinquished By: →	Date / Time [illegible]	Received By: →	Date / Time [illegible]	Turnaround Time Requested:

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

use this to correct the highlighted compounds only (original submittal)

SAMPLE NUMBER:	DUP-1	EB-1	MW-10	MW-12
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	05/02/01
LABORATORY ID:	AC12707	AC12706	AC12701	AC12704
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	~~0.41~~ 2.5	U		~~0.41~~ 2.5	U		~~0.41~~ 2.5	U		~~0.41~~ 2.5	U	
1,1,1-TRICHLOROETHANE	~~0.56~~ 4	U		~~0.56~~ 4	U		~~0.56~~ 4	U		~~0.56~~ 4	U	
1,1,2,2-TETRACHLOROETHANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U	
1,1,2-TRICHLOROETHANE	~~0.49~~ 5	U		~~0.49~~ 5	U		~~0.49~~ 5	U		~~0.49~~ 5	U	
1,1-DICHLOROETHANE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U	
1,1-DICHLOROETHENE	~~0.61~~ 6	U		~~0.61~~ 6	U		~~0.61~~ 6	U		~~0.61~~ 6	U	
1,2,3-TRICHLOROBENZENE	~~0.4~~ 1.5	U		~~0.4~~ 1.5	U		~~0.4~~ 1.5	U		~~0.4~~ 1.5	U	
1,2,3-TRICHLOROPROPANE	~~0.86~~ 16	U		~~0.86~~ 16	U		~~0.86~~ 16	U		~~0.86~~ 16	U	
1,2,4-TRICHLOROBENZENE	~~0.45~~ 2	U		~~0.45~~ 2	U		~~0.45~~ 2	U		~~0.45~~ 2	U	
1,2,4-TRIMETHYLBENZENE	~~0.54~~ 6.5	U		~~0.54~~ 6.5	U		~~0.54~~ 6.5	U		~~0.54~~ 6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	~~0.37~~ 13	U		~~0.37~~ 13	U		~~0.37~~ 13	U		~~0.37~~ 13	U	
1,2-DIBROMOETHANE	~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U	
1,2-DICHLOROBENZENE	~~0.54~~ 1.5	U		~~0.54~~ 1.5	U		~~0.54~~ 1.5	U		~~0.54~~ 1.5	U	
1,2-DICHLOROETHANE	~~0.46~~ 3	U		~~0.46~~ 3	U		~~0.46~~ 3	U		~~0.46~~ 3	U	
1,2-DICHLOROPROPANE	~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U	
1,3,5-TRIMETHYLBENZENE	~~0.6~~ 2.5	U		~~0.6~~ 2.5	U		~~0.6~~ 2.5	U		~~0.6~~ 2.5	U	
1,3-DICHLOROBENZENE	~~0.46~~ 6	U		~~0.46~~ 6	U		~~0.46~~ 6	U		~~0.46~~ 6	U	
1,3-DICHLOROPROPANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U	
1,4-DICHLOROBENZENE	~~0.58~~ 1.5	U		~~0.58~~ 1.5	U		~~0.58~~ 1.5	U		~~0.58~~ 1.5	U	
2,2-DICHLOROPROPANE	~~0.53~~ 17.5	U		~~0.53~~ 17.5	U		~~0.53~~ 17.5	U		~~0.53~~ 17.5	U	
2-CHLOROTOLUENE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U	
4-CHLOROTOLUENE	~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U	
4-ISOPROPYLTOLUENE	~~0.51~~ 6	U		~~0.51~~ 6	U		~~0.51~~ 6	U		~~0.51~~ 6	U	
BENZENE	~~0.51~~ 1	U		~~0.51~~ 1	U		~~0.51~~ 1	U		~~0.51~~ 1	U	
BROMOBENZENE	~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U	
BROMOCHLOROMETHANE	~~0.59~~ 2	U		~~0.59~~ 2	U		~~0.59~~ 2	U		~~0.59~~ 2	U	
BROMODICHLOROMETHANE	~~0.49~~ 4	U		~~0.49~~ 4	U		~~0.49~~ 4	U		~~0.49~~ 4	U	
BROMOFORM	~~0.3~~ 6	U		~~0.3~~ 6	U		~~0.3~~ 6	U		~~0.3~~ 6	U	
BROMOMETHANE	~~0.46~~ 5.5	U		~~0.46~~ 5.5	U		~~0.46~~ 5.5	U		~~0.46~~ 5.5	U	
CARBON TETRACHLORIDE	~~0.26~~ 10.5	U		~~0.26~~ 10.5	U		~~0.26~~ 10.5	U		~~0.26~~ 10.5	U	
CHLOROBENZENE	~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U	
CHLORODIBROMOMETHANE	~~0.37~~ 2.5	U		~~0.37~~ 2.5	U		~~0.37~~ 2.5	U		~~0.37~~ 2.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	~~0.34~~ 5	U		~~0.34~~ 5	U		~~0.34~~ 5	U		~~0.34~~ 5	U	
CHLOROFORM	~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		4.6		
CHLOROMETHANE	~~0.45~~ 6.5	U		~~0.45~~ 6.5	U		~~0.45~~ 6.5	U		0.71	J	P
CIS-1,2-DICHLOROETHENE	~~0.55~~ 6	U		~~0.55~~ 6	U		~~0.55~~ 6	U		~~0.55~~ 6	U	
DIBROMOMETHANE	~~0.51~~ 12	U		~~0.51~~ 12	U		~~0.51~~ 12	U		~~0.51~~ 12	U	
DICHLORODIFLUOROMETHANE	~~0.51~~ 5	U		~~0.51~~ 5	U		~~0.51~~ 5	U		~~0.51~~ 5	U	
ETHYLBENZENE	~~0.52~~ 3	U		~~0.52~~ 3	U		1.2	J	P	~~0.52~~ 3	U	
HEXACHLOROBUTADIENE	~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U	
ISOPROPYLBENZENE	~~0.49~~ 2.5	U		~~0.49~~ 2.5	U		~~0.49~~ 2.5	U		~~0.49~~ 2.5	U	
~~METHYL TERT BUTYL ETHER~~ Naphthalene	~~0.57~~ 2	U		~~0.57~~ 2	U		3			~~0.57~~ 2	U	
METHYLENE CHLORIDE	1.5			~~1.3~~ 1.5	U		~~1.3~~ 1.5	U		~~1.3~~ 1.5	U	
N-BUTYLBENZENE	~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		~~0.47~~ 5.5	U	
N-PROPYLBENZENE	~~0.62~~ 2	U		~~0.62~~ 2	U		~~0.62~~ 2	U		~~0.62~~ 2	U	
SEC-BUTYLBENZENE	~~0.53~~ 6.5	U		~~0.53~~ 6.5	U		~~0.53~~ 6.5	U		~~0.53~~ 6.5	U	
STYRENE	~~0.44~~ 2	U		~~0.44~~ 2	U		~~0.44~~ 2	U		~~0.44~~ 2	U	
TERT-BUTYLBENZENE	~~0.48~~ 7	U		~~0.48~~ 7	U		~~0.48~~ 7	U		~~0.48~~ 7	U	
TETRACHLOROETHENE	~~0.49~~ 7	U		~~0.49~~ 7	U		~~0.49~~ 7 ~~5.5~~	U		~~0.49~~ 7	U	
TOLUENE	~~0.52~~ 5.5	U		1.2	J	P	~~0.52~~ 5.5	U		~~0.52~~ 5.5	U	
TOTAL XYLENES	~~0.95~~ 5	U		~~0.95~~ 5	U		~~0.95~~ 5	U		~~0.95~~ 5	U	
TRANS-1,2-DICHLOROETHENE	~~0.58~~ 3	U		~~0.58~~ 3	U		~~0.58~~ ~~3~~	U		~~0.58~~ 3	U	
TRANS-1,3-DICHLOROPROPENE	~~0.43~~ 5	U		~~0.43~~ 5	U		~~0.43~~ 5	U		~~0.43~~ 5	U	
TRICHLOROETHENE	~~0.53~~ 5	U		~~0.53~~ 5	U		~~0.53~~ 5	U		~~0.53~~ 5	U	
TRICHLOROFLUOROMETHANE	~~0.55~~ 4	U		~~0.55~~ 4	U		~~0.55~~ 4	U		~~0.55~~ 4	U	
VINYL CHLORIDE	~~0.56~~ 5.5	U		~~0.56~~ 5.5	U		~~0.56~~ 5.5	U		~~0.56~~ 5.5	U	
cis-1,3-dichloropropene	5	U		5	U		5	U		5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

VOLATILES	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
1,1,1,2-TETRACHLOROETHANE	~~0.41~~ 2.5	U		~~0.41~~ 2.5	U		~~0.41~~ 2.5	U		~~0.41~~ 2.5	U	
1,1,1-TRICHLOROETHANE	~~0.56~~ 4	U		~~0.56~~ 4	U		~~0.56~~ 4	U		~~0.56~~ 4	U	
1,1,2,2-TETRACHLOROETHANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U	
1,1,2-TRICHLOROETHANE	~~0.49~~ 5	U		~~0.49~~ 5	U		~~0.49~~ 5	U		~~0.49~~ 5	U	
1,1-DICHLOROETHANE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U	
1,1-DICHLOROETHENE	~~0.61~~ 6	U		~~0.61~~ 6	U		~~0.61~~ 6	U		~~0.61~~ 6	U	
1,2,3-TRICHLOROBENZENE	~~0.4~~ 1.5	U		~~0.4~~ 1.5	U		~~0.4~~ 1.5	U		~~0.4~~ 1.5	U	
1,2,3-TRICHLOROPROPANE	~~0.86~~ 16	U		~~0.86~~ 16	U		~~0.86~~ 16	U		~~0.86~~ 16	U	
1,2,4-TRICHLOROBENZENE	~~0.45~~ 2	U		~~0.45~~ 2	U		~~0.45~~ 2	U		~~0.45~~ 2	U	
1,2,4-TRIMETHYLBENZENE	~~0.54~~ 6.5	U		~~0.54~~ 6.5	U		~~0.54~~ 6.5	U		0.65	J	P
1,2-DIBROMO-3-CHLOROPROPANE	~~0.37~~ 13	U		~~0.37~~ 13	U		~~0.37~~ 13	U		~~0.37~~ 13	U	
1,2-DIBROMOETHANE	~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U	
1,2-DICHLOROBENZENE	~~0.54~~ 1.5	U		~~0.54~~ 1.5	U		~~0.54~~ 1.5	U		~~0.54~~ 1.5	U	
1,2-DICHLOROETHANE	~~0.46~~ 3	U		~~0.46~~ 3	U		~~0.46~~ 3	U		~~0.46~~ 3	U	
1,2-DICHLOROPROPANE	~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U	
1,3,5-TRIMETHYLBENZENE	~~0.6~~ 2.5	U		~~0.6~~ 2.5	U		~~0.6~~ 2.5	U		15		
1,3-DICHLOROBENZENE	~~0.46~~ 6	U		~~0.46~~ 6	U		~~0.46~~ 6	U		~~0.46~~ 6	U	
1,3-DICHLOROPROPANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U	
1,4-DICHLOROBENZENE	~~0.58~~ 1.5	U		~~0.58~~ 1.5	U		~~0.58~~ 1.5	U		~~0.58~~ 1.5	U	
2,2-DICHLOROPROPANE	~~0.53~~ 17.5	U		~~0.53~~ 17.5	U		~~0.53~~ 17.5	U		~~0.53~~ 17.5	U	
2-CHLOROTOLUENE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U	
4-CHLOROTOLUENE	~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U	
4-ISOPROPYLTOLUENE	~~0.51~~ 6	U		~~0.51~~ 6	U		~~0.51~~ 6	U		0.62	J	P
BENZENE	~~0.51~~ 1	U		~~0.51~~ 1	U		~~0.51~~ 1	U		~~0.51~~ 1	U	
BROMOBENZENE	~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U	
BROMOCHLOROMETHANE	~~0.59~~ 2	U		~~0.59~~ 2	U		~~0.59~~ 2	U		~~0.59~~ 2	U	
BROMODICHLOROMETHANE	~~0.49~~ 4	U		~~0.49~~ 4	U		~~0.49~~ 4	U		~~0.49~~ 4	U	
BROMOFORM	~~0.3~~ 6	U		~~0.3~~ 6	U		~~0.3~~ 6	U		~~0.3~~ 6	U	
BROMOMETHANE	~~0.46~~ 5.5	U		~~0.46~~ 5.5	U		~~0.46~~ 5.5	U		~~0.46~~ 5.5	U	
CARBON TETRACHLORIDE	~~0.26~~ 10.5	U		~~0.26~~ 10.5	U		~~0.26~~ 10.5	U		~~0.26~~ 10.5	U	
CHLOROBENZENE	~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U	
CHLORODIBROMOMETHANE	~~0.37~~ 2.5	U		~~0.37~~ 2.5	U		~~0.37~~ 2.5	U		~~0.37~~ 2.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	~~0.34~~ 5	U		~~0.34~~ 5	U		~~0.34~~ 5	U		~~0.34~~ 5	U	
CHLOROFORM	1.9			~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U	
CHLOROMETHANE	~~0.45~~ 6.5	U		~~0.45~~ 6.5	U		~~0.45~~ 6.5	U		~~0.45~~ 6.5	U	
CIS-1,2-DICHLOROETHENE	~~0.55~~ 6	U		~~0.55~~ 6	U		~~0.55~~ 6	U		~~0.55~~ 6	U	
DIBROMOMETHANE	~~0.51~~ 12	U		~~0.51~~ 12	U		~~0.51~~ 12	U		~~0.51~~ 12	U	
DICHLORODIFLUOROMETHANE	~~0.51~~ 5	U		~~0.51~~ 5	U		~~0.51~~ 5	U		~~0.51~~ 5	U	
ETHYLBENZENE	~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U	
HEXACHLOROBUTADIENE	~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U	
ISOPROPYLBENZENE	~~0.49~~ 2.5	U		~~0.49~~ 2.5	U		~~0.49~~ 2.5	U		~~0.49~~ 2.5	U	
~~METHYL TERT-BUTYL ETHER~~ Naphthalene	~~0.57~~ 2	U		~~0.57~~ 2	U		~~0.57~~ 2	U		5.4		
METHYLENE CHLORIDE	1.3 1.5	U		~~1.3~~ 1.5	U		1.4	J	P	1.8		
N-BUTYLBENZENE	~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		0.61	J	P
N-PROPYLBENZENE	~~0.62~~ 2	U		~~0.62~~ 2	U		~~0.62~~ 2	U		~~0.62~~ 2	U	
SEC-BUTYLBENZENE	~~0.53~~ 6.5	U		~~0.53~~ 6.5	U		~~0.53~~ 6.5	U		~~0.53~~ 6.5	U	
STYRENE	~~0.44~~ 2	U		~~0.44~~ 2	U		~~0.44~~ 2	U		~~0.44~~ 2	U	
TERT-BUTYLBENZENE	~~0.48~~ 7	U		~~0.48~~ 7	U		~~0.48~~ 7	U		~~0.48~~ 7	U	
TETRACHLOROETHENE	~~0.49~~ 7	U		~~0.49~~ 7	U		~~0.49~~ 7	U		~~0.49~~ 7	U	
TOLUENE	~~0.52~~ 5.5	U		~~0.52~~ 5.5	U		~~0.52~~ 5.5	U		~~0.52~~ 5.5	U	
TOTAL XYLENES	~~0.95~~ 5	U		~~0.95~~ 5	U		~~0.95~~ 5	U		5.7		
TRANS-1,2-DICHLOROETHENE	~~0.58~~ 3	U		~~0.58~~ 3	U		~~0.58~~ 3	U		~~0.58~~ 3	U	
TRANS-1,3-DICHLOROPROPENE	~~0.43~~ 5	U		~~0.43~~ 5	U		~~0.43~~ 5	U		~~0.43~~ 5	U	
TRICHLOROETHENE	~~0.53~~ 5	U		~~0.53~~ 5	U		~~0.53~~ 5	U		~~0.53~~ 5	U	
TRICHLOROFLUOROMETHANE	~~0.55~~ 4	U		~~0.55~~ 4	U		~~0.55~~ 4	U		~~0.55~~ 4	U	
VINYL CHLORIDE	~~0.56~~ 5.5	U		~~0.56~~ 5.5	U		~~0.56~~ 5.5	U		~~0.56~~ 5.5	U	
cis-1,3-Dichloropropene	5	U		5	U		5	U		5	U	
~~Naphthalene~~				2	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

Arangetko
TB140050101
GM

SAMPLE NUMBER:	MW-25D	MW-3	TRIP BLANK	
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	/ /
LABORATORY ID:	AC12709	AC12702	AC12711	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	~~0.41~~ 2.5	U		~~0.41~~ 2.5	U		~~0.41~~ 2.5	U				
1,1,1-TRICHLOROETHANE	~~0.56~~ 4	U		~~0.56~~ 4	U		~~0.56~~ 4	U				
1,1,2,2-TETRACHLOROETHANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U				
1,1,2-TRICHLOROETHANE	~~0.49~~ 5	U		~~0.49~~ 5	U		~~0.49~~ 5	U				
1,1-DICHLOROETHANE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U				
1,1-DICHLOROETHENE	~~0.61~~ 6	U		~~0.61~~ 6	U		~~0.61~~ 6	U				
1,2,3-TRICHLOROBENZENE	~~0.4~~ 1.5	U		~~0.4~~ 1.5	U		~~0.4~~ 1.5	U				
1,2,3-TRICHLOROPROPANE	~~0.86~~ 16	U		~~0.86~~ 16	U		~~0.86~~ 16	U				
1,2,4-TRICHLOROBENZENE	~~0.45~~ 2	U		~~0.45~~ 2	U		~~0.45~~ 2	U				
1,2,4-TRIMETHYLBENZENE	~~0.54~~ 6.5	U		~~0.54~~ 6.5	U		~~0.54~~ 6.5	U				
1,2-DIBROMO-3-CHLOROPROPANE	~~0.37~~ 13	U		~~0.37~~ 13	U		~~0.37~~ 13	U				
1,2-DIBROMOETHANE	0.05 ~~0.52~~	U		~~0.52~~ 0.05	U		~~0.52~~ 3	U				
1,2-DICHLOROBENZENE	~~0.54~~ 1.5	U		~~0.54~~ 1.5	U		~~0.54~~ 1.5	U				
1,2-DICHLOROETHANE	~~0.46~~ 3	U		~~0.46~~ 3	U		~~0.46~~ 3	U				
1,2-DICHLOROPROPANE	~~0.54~~ 2	U		~~0.54~~ 2	U		~~0.54~~ 2	U				
1,3,5-TRIMETHYLBENZENE	~~0.6~~ 2.5	U		~~0.6~~ 2.5	U		~~0.6~~ 2.5	U				
1,3-DICHLOROBENZENE	~~0.46~~ 6	U		~~0.46~~ 6	U		~~0.46~~ 6	U				
1,3-DICHLOROPROPANE	~~0.42~~ 2	U		~~0.42~~ 2	U		~~0.42~~ 2	U				
1,4-DICHLOROBENZENE	~~0.58~~ 1.5	U		~~0.58~~ 1.5	U		~~0.58~~ 1.5	U				
2,2-DICHLOROPROPANE	~~0.53~~ 17.5	U		~~0.53~~ 17.5	U		~~0.53~~ 17.5	U				
2-CHLOROTOLUENE	~~0.55~~ 2	U		~~0.55~~ 2	U		~~0.55~~ 2	U				
4-CHLOROTOLUENE	~~0.52~~ 3	U		~~0.52~~ 3	U		~~0.52~~ 3	U				
4-ISOPROPYLTOLUENE	~~0.51~~ 6	U		~~0.51~~ 6	U		~~0.51~~ 6	U				
BENZENE	~~0.51~~ 1	U		~~0.51~~ 1	U		~~0.51~~ 1	U				
BROMOBENZENE	~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U				
BROMOCHLOROMETHANE	~~0.59~~ 2	U		~~0.59~~ 2	U		~~0.59~~ 2	U				
BROMODICHLOROMETHANE	~~0.49~~ 4	U		~~0.49~~ 4	U		~~0.49~~ 4	U				
BROMOFORM	~~0.3~~ 6	U		~~0.3~~ 6	U		~~0.3~~ 6	U				
BROMOMETHANE	~~0.46~~ 5.5	U		~~0.46~~ 5.5	U		~~0.46~~ 5.5	U				
CARBON TETRACHLORIDE	~~0.26~~ 10.5	U		~~0.26~~ 10.5	U		~~0.26~~ 10.5	U				
CHLOROBENZENE	~~0.54~~ 2	U		~~0.54~~ 2	U		0.62	J	P			
CHLORODIBROMOMETHANE	~~0.37~~ 2.5	U		~~0.37~~ 2.5	U		~~0.37~~ 2.5	U				

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3			TRIP BLANK			/ /		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01					
LABORATORY ID:	AC12709			AC12702			AC12711					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	0.0 %			0.0 %			0.0 %			100.0 %		
UNITS:	UG/L			UG/L			UG/L					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	0.34 5	U		0.34 5	U		0.34 5	U				
CHLOROFORM	0.53 1.5	U		0.53 1.5	U		0.53 1.5	U				
CHLOROMETHANE	0.45 6.5	U		0.45 6.5	U		0.45 6.5	U				
CIS-1,2-DICHLOROETHENE	0.55 6	U		0.55 6	U		0.55 6	U				
DIBROMOMETHANE	0.51 12	U		0.51 12	U		0.51 12	U				
DICHLORODIFLUOROMETHANE	0.51 5	U		0.51 5	U		0.51 5	U				
ETHYLBENZENE	0.52 3	U		0.52 3	U		0.52 3	U				
HEXACHLOROBUTADIENE	0.6 5.5	U		0.6 5.5	U		0.6 5.5	U				
ISOPROPYLBENZENE	0.49 2.5	U		0.49 2.5	U		0.49 2.5	U				
~~METHYL TERT-BUTYL ETHER~~ Naphthalene	0.57 2	U		0.57 2	U		0.57 2	U				
METHYLENE CHLORIDE	1.3 1.5	U		1.3 1.5	U		1.3 1.5	U				
N-BUTYLBENZENE	0.47 5.5	U		0.47 5.5	U		0.47 5.5	U				
N-PROPYLBENZENE	0.62 2	U		0.62 2	U		0.62 2	U				
SEC-BUTYLBENZENE	0.53 6.5	U		0.53 6.5	U		0.53 6.5	U				
STYRENE	0.44 2	U		0.44 2	U		0.44 2	U				
TERT-BUTYLBENZENE	0.48 7	U		0.48 7	U		0.48 7	U				
TETRACHLOROETHENE	0.49 7	U		0.49 7	U		0.49 7	U				
TOLUENE	0.52 5.5	U		0.52 5.5	U		0.52 5.5	U				
TOTAL XYLENES	0.95 5	U		0.95 5	U		0.95 5	U				
TRANS-1,2-DICHLOROETHENE	0.58 3	U		0.58 3	U		0.58 3	U				
TRANS-1,3-DICHLOROPROPENE	0.43 5	U		0.43 5	U		0.43 5	U				
TRICHLOROETHENE	0.53 5	U		0.53 5	U		0.53 5	U				
TRICHLOROFLUOROMETHANE	0.55 4	U		0.55 4	U		0.55 4	U				
VINYL CHLORIDE	0.56 5.5	U		0.56 5.5	U		0.56 5.5	U				
cis-1,3-Dichloropropene	5	U		5	U		5	U				

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1				EB-1				MW-10				MW-12			
SAMPLE DATE:	05/02/01				05/02/01				05/01/01				05/02/01			
LABORATORY ID:	AC12707				AC12706				AC12701				AC12704			
QC_TYPE:	NORMAL				NORMAL				NORMAL				NORMAL			
% SOLIDS:	0.0 %				0.0 %				0.0 %				0.0 %			
UNITS:	UG/L				UG/L				UG/L				UG/L			
FIELD DUPLICATE OF:																
	RESULT		QUAL	CODE	RESULT		QUAL	CODE	RESULT		QUAL	CODE	RESULT		QUAL	CODE
SEMIVOLATILES																
1,2,4-TRICHLOROBENZENE	1.6	10	U		1.6	10	U		1.6	10	U		1.6	10	U	
1,2-DICHLOROBENZENE	1.9		U		1.9		U		1.9		U		1.9		U	
1,3-DICHLOROBENZENE	1.7		U		1.7		U		1.7		U		1.7		U	
1,4-DICHLOROBENZENE	1.7		U		1.7		U		1.7		U		1.7		U	
2,4,5-TRICHLOROPHENOL	1.6	50	U		1.6	50	U		1.6	50	U		1.6	50	U	
2,4,6-TRICHLOROPHENOL	1.6	10	U		1.6	10	U		1.6	10	U		1.6	10	U	
2,4-DICHLOROPHENOL	1.6		U		1.6		U		1.6		U		1.6		U	
2,4-DIMETHYLPHENOL	1.6		U		1.6		U		1.6		U		1.6		U	
2,4-DINITROPHENOL	10	50	U		10	50	U		10	50	U		10	50	U	
2,4-DINITROTOLUENE	2.4	10	U		2.4	10	U		2.4	10	U		2.4	10	U	
2,6-DINITROTOLUENE	1.3		U		1.3		U		1.3		U		1.3		U	
2-CHLORONAPHTHALENE	1.8		U		1.8		U		1.8		U		1.8		U	
2-CHLOROPHENOL	1.5		U		1.5		U		1.5		U		1.5		U	
2-METHYLNAPHTHALENE	1.8		U		1.8		U		1.8		U		1.8		U	
2-METHYLPHENOL	1.4		U		1.4		U		1.4		U		1.4		U	
2-NITROANILINE	1.6	50	U		1.6	50	U		1.6	50	U		1.6	50	U	
2-NITROPHENOL	1.8	10	U		1.8	10	U		1.8	10	U		1.8	10	U	
3,3'-DICHLOROBENZIDINE	1	20	U		1	20	U		1	20	U		1	20	U	
3-NITROANILINE	3	50	U		3	50	U		3	50	U		3	50	U	
4,6-DINITRO-2-METHYLPHENOL	1.9		U		1.9		U		1.9		U		1.9		U	
4-BROMOPHENYL PHENYL ETHER	1.2	10	U		1.2	10	U		1.2	10	U		1.2	10	U	
4-CHLORO-3-METHYLPHENOL	1.3	20	U		1.3	20	U		1.3	20	U		1.3	20	U	
4-CHLOROANILINE	3.5		U		3.5		U		3.5		U		3.5		U	
4-CHLOROPHENYL PHENYL ETHER	1.1	10	U		1.1	10	U		1.1	10	U		1.1	10	U	
4-NITROANILINE	3.8	50	U		3.8	50	U		3.8	50	U		3.8	50	U	
4-NITROPHENOL	4.4		U		4.4		U		4.4		U		4.4		U	
ACENAPHTHENE	1.2	10	U		1.2	10	U		1.2	10	U		1.2	10	U	
ACENAPHTHYLENE	1.4		U		1.4		U		1.4		U		1.4		U	
ANTHRACENE	1		U		1		U		1		U		1		U	
BENZO(A)ANTHRACENE	0.48		U		0.48		U		0.48		U		0.48		U	
BENZO(A)PYRENE	0.79		U		0.79		U		0.79		U		0.79		U	
BENZO(B)FLUORANTHENE	1		U		1		U		1		U		1		U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1	EB-1	MW-10	MW-12
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	05/02/01
LABORATORY ID:	AC12707	AC12706	AC12701	AC12704
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.76 10	U		0.76 10	U		0.76 10	U		0.76 10	U	
BENZO(K)FLUORANTHENE	1.4 ↓	U		1.4 ↓	U		1.4 ↓	U		1.4 ↓	U	
BENZOIC ACID	50 50	U		50 50	U		50 50	U		50 50	U	
BENZYL ALCOHOL	1.9 20	U		1.9 20	U		1.9 20	U		1.9 20	U	
BIS(2-CHLOROETHOXY)METHANE	1.4 10	U		1.4 10	U		1.4 10	U		1.4 10	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.67	U		0.67	U	
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U		1.8	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U		0.78	U		0.78	U	
DIBENZOFURAN	1.2	U		1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		0.94	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		1.6	U		1.6	U	
FLUORENE	1.5	U		1.5	U		1.5	U		1.5	U	
HEXACHLOROBENZENE	0.95	U		0.95	U		0.95	U		0.95	U	
HEXACHLOROBUTADIENE	1.3	U		1.3	U		1.3	U		1.3	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		1.7	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		0.75	U		0.75	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		1.4	U		1.4	U	
N-NITROSODIPHENYLAMINE	1	U		1	U		1	U		1	U	
NAPHTHALENE	1.9	U		1.9	U		1.9	U		1.9	U	
NITROBENZENE	1.5 ↓	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
PENTACHLOROPHENOL	1.8 50	U		1.8 50	U		1.8 50	U		1.8 50	U	
PHENANTHRENE	0.86 10	U		0.86 10	U		0.86 10	U		0.86 10	U	
PHENOL	1.5 ↓	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.5~~	~~U~~	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PYRENE	10	U		10	U		10	U		10	U	
3,4-methylphenol	20	U		20	U		20	U		20	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	1.6 10	U		1.6 10	U		1.6 10	U		1.6 10	U	
1,2-DICHLOROBENZENE	1.9	U		1.9	U		1.9	U		1.9	U	
1,3-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
1,4-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
2,4,5-TRICHLOROPHENOL	1.6 50	U		1.6 50	U		1.6 50	U		1.6 50	U	
2,4,6-TRICHLOROPHENOL	1.6 10	U		1.6 10	U		1.6 10	U		1.6 10	U	
2,4-DICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DIMETHYLPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DINITROPHENOL	10 50	U		10 50	U		10 50	U		10 50	U	
2,4-DINITROTOLUENE	2.4 10	U		2.4 10	U		2.4 10	U		2.4 10	U	
2,6-DINITROTOLUENE	1.3	U		1.3	U		1.3	U		1.3	U	
2-CHLORONAPHTHALENE	1.8	U		1.8	U		1.8	U		1.8	U	
2-CHLOROPHENOL	1.5	U		1.5	U		1.5	U		1.5	U	
2-METHYLNAPHTHALENE	1.8	U		1.8	U		1.8	U		2.2	J	P
2-METHYLPHENOL	1.4	U		1.4	U		1.4	U		1.4 10	U	
2-NITROANILINE	1.6 50	U		1.6 50	U		1.6 50	U		1.6 50	U	
2-NITROPHENOL	1.8 10	U		1.8 10	U		1.8 10	U		1.8 10	U	
3,3'-DICHLOROBENZIDINE	1 20	U		1 20	U		1 20	U		1 20	U	
3-NITROANILINE	3 50	U		3 50	U		3 50	U		3 50	U	
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U		1.9	U		1.9	U	
4-BROMOPHENYL PHENYL ETHER	1.2 10	U		1.2 10	U		1.2 10	U		1.2 10	U	
4-CHLORO-3-METHYLPHENOL	1.3 20	U		1.3 20	U		1.3 20	U		1.3 20	U	
4-CHLOROANILINE	3.5	U		3.5	U		3.5	U		3.5	U	
4-CHLOROPHENYL PHENYL ETHER	1.1 10	U		1.1 10	U		1.1 10	U		1.1 10	U	
4-NITROANILINE	3.8 50	U		3.8 50	U		3.8 50	U		3.8 50	U	
4-NITROPHENOL	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHENE	1.2 10	U		1.2 10	U		1.2 10	U		2.8	J	P
ACENAPHTHYLENE	1.4	U		1.4	U		1.4	U		1.4 10	U	
ANTHRACENE	1	U		1	U		1	U		1	U	
BENZO(A)ANTHRACENE	0.48	U		0.48	U		0.48	U		0.48	U	
BENZO(A)PYRENE	0.79	U		0.79	U		0.79	U		0.79	U	
BENZO(B)FLUORANTHENE	1	U		1	U		1	U		1	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.76 10	U		0.76 10	U		0.76 10	U		0.76 10	U	
BENZO(K)FLUORANTHENE	1.4 ↓	U		1.4 ↓	U		1.4 ↓	U		1.4 ↓	U	
BENZOIC ACID	50 50	U		50 50	U		50 50	U		50 50	U	
BENZYL ALCOHOL	1.9 20	U		1.9 20	U		1.9 20	U		1.9 20	U	
BIS(2-CHLOROETHOXY)METHANE	1.4 10	U		1.4 10	U		1.4 10	U		1.4 10	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.67	U		0.67	U	
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8 ↓	U		1.8	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78 10	U		0.78	U		0.78	U	
DIBENZOFURAN	1.2	U		1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		0.94	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		1.6	U		1.6	U	
FLUORENE	1.5	U		1.5	U		1.5	U		1.5	U	
HEXACHLOROBENZENE	0.95	U		0.95	U		0.95	U		0.95	U	
HEXACHLOROBUTADIENE	1.3	U		1.3	U		1.3	U		1.3	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		1.7	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		0.75	U		0.75	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		1.4	U		1.4	U	
N-NITROSODIPHENYLAMINE	1	U		1 ↓	U		1	U		1	U	
NAPHTHALENE	1.9	U		1.9 10	U		1.9	U		1.9	U	
NITROBENZENE	1.5 ↓	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
PENTACHLOROPHENOL	1.8 50	U		1.8 50	U		1.8 50	U		1.8 50	U	
PHENANTHRENE	0.86 10	U		0.86 10	U		0.86 10	U		0.86 10	U	
PHENOL	1.5 ↓	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.9~~	~~J~~	~~P~~	~~1.5~~	~~U~~	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PYRENE	10	U		10	U		10	U		10	U	
~~3,4-m~~ 3,4-methylphenol	20	U		20	U		1.9	J	P	20	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D	MW-3		
SAMPLE DATE:	05/02/01	05/02/01	/ /	/ /
LABORATORY ID:	AC12709	AC12702		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

SEMIVOLATILES	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
1,2,4-TRICHLOROBENZENE	1.6 10	U		1.6 10	U							
1,2-DICHLOROBENZENE	1.9	U		1.9	U							
1,3-DICHLOROBENZENE	1.7	U		1.7	U							
1,4-DICHLOROBENZENE	1.7	U		1.7	U							
2,4,5-TRICHLOROPHENOL	1.6 50	U		1.6 50	U							
2,4,6-TRICHLOROPHENOL	1.6 10	U		1.6 10	U							
2,4-DICHLOROPHENOL	1.6	U		1.6	U							
2,4-DIMETHYLPHENOL	1.6	U		1.6	U							
2,4-DINITROPHENOL	10 50	U		10 50	U							
2,4-DINITROTOLUENE	2.4 10	U		2.4 10	U							
2,6-DINITROTOLUENE	1.3	U		1.3	U							
2-CHLORONAPHTHALENE	1.3	U		1.3	U							
2-CHLOROPHENOL	1.5	U		1.5	U							
2-METHYLNAPHTHALENE	1.3	U		1.3	U							
2-METHYLPHENOL	1.4	U		1.4	U							
2-NITROANILINE	1.6 50	U		1.6 50	U							
2-NITROPHENOL	1.8 10	U		1.8 10	U							
3,3'-DICHLOROBENZIDINE	1 20	U		1 20	U							
3-NITROANILINE	3 50	U		3 50	U							
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U							
4-BROMOPHENYL PHENYL ETHER	1.2 10	U		1.2 10	U							
4-CHLORO-3-METHYLPHENOL	1.3 20	U		1.3 20	U							
4-CHLOROANILINE	3.5	U		3.5	U							
4-CHLOROPHENYL PHENYL ETHER	1.1 10	U		1.1 10	U							
4-NITROANILINE	3.8 50	U		3.8 50	U							
4-NITROPHENOL	4.4	U		4.4	U							
ACENAPHTHENE	1.2 10	U		1.2 10	U							
ACENAPHTHYLENE	1.4	U		1.4	U							
ANTHRACENE	1	U		1	U							
BENZO(A)ANTHRACENE	0.48	U		0.48	U							
BENZO(A)PYRENE	0.79	U		0.79	U							
BENZO(B)FLUORANTHENE	1	U		1	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3			/ /			/ /		
SAMPLE DATE:	05/02/01			05/02/01								
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.76 10	U		0.76 10	U							
BENZO(K)FLUORANTHENE	1.4 ↓	U		1.4 ↓	U							
BENZOIC ACID	50 50	U		50 50	U							
BENZYL ALCOHOL	1.9 10	U		1.9 10	U							
BIS(2-CHLOROETHOXY)METHANE	1.4	U		1.4	U							
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U							
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U							
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U							
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U							
CARBAZOLE	1.9	U		1.9	U							
CHRYSENE	0.67	U		0.67	U							
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U							
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U							
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U							
DIBENZOFURAN	1.2	U		1.2	U							
DIETHYL PHTHALATE	1.2	U		1.2	U							
DIMETHYL PHTHALATE	0.94	U		0.94	U							
FLUORANTHENE	1.6	U		1.6	U							
FLUORENE	1.5	U		1.5	U							
HEXACHLOROBENZENE	0.95	U		0.95	U							
HEXACHLOROBUTADIENE	1.3	U		1.3	U							
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U							
HEXACHLOROETHANE	1.7	U		1.7	U							
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U							
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U							
N-NITROSODIPHENYLAMINE	1	U		1	U							
NAPHTHALENE	1.9	U		1.9	U							
NITROBENZENE	1.5 ↓	U		1.5 ↓	U							
PENTACHLOROPHENOL	1.8 50	U		1.8 50	U							
PHENANTHRENE	0.86 10	U		0.86 10	U							
PHENOL	1.5 ↓	U		1.5 ↓	U							
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~		~~1.5~~	~~U~~							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3			/ /			/ /		
SAMPLE DATE:	05/02/01			05/02/01								
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PYRENE	~~1~~ 10	U		~~1~~ 10	U							
3,4-methylphenol	20	U		20	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.66	J	P	0.31 1.0	U		1			0.31 1.0	U	
2-METHYLNAPHTHALENE	0.72	J	P	0.3	U		~~0.3~~ 1.0	U		0.3	U	
ACENAPHTHENE	0.5	J	P	0.29	U		0.69	J	P	0.29	U	
ACENAPHTHYLENE	0.2 1.0	U		0.2	U		0.2 1.0	U		0.2	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORENE	0.3	J	P	0.27	U		~~0.40~~ 1.0 ~~J~~ 0.49J		P	0.27	U	
INDENO(1,2,3-CD)PYRENE	0.25 1.0	U		0.25	U		~~0.25~~ 1.0	U		0.25	U	
NAPHTHALENE	0.3	U		0.49	J	P	~~0.85~~ 1.0	UBR		0.3	U	
PHENANTHRENE	0.26	U		0.26 1.0	U		0.26 1.0	U		0.26	U	
PYRENE	0.28	U		0.28	U		0.28	U		0.28	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
POLYNUCLEAR AROMATIC HYDROCARBONS	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1-METHYLNAPHTHALENE	0.31 1.0	U		0.31 1.0	U		0.31 1.0	U		6.5 •		
2-METHYLNAPHTHALENE	0.3	U		0.3	U		0.3	U		2.5 •		
ACENAPHTHENE	0.29	U		0.29	U		0.29	U		3.8 •		
ACENAPHTHYLENE	0.2	U		0.2	U		0.2	U		0.2 1.0	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.3 •	J	P
FLUORENE	0.27	U		0.27	U		0.27	U		3.1 •		
INDENO(1,2,3-CD)PYRENE	0.25	U		0.25	U		0.25	U		~~0.26~~ 1.0	U	
NAPHTHALENE	0.3	U		0.3	U		0.3	U		1.5	U	B
PHENANTHRENE	0.26	U		0.26	U		0.26	U		2.7 •		
PYRENE	0.28	U		0.28	U		0.28	U		0.49 •	J	P

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D	MW-3		
SAMPLE DATE:	05/02/01	05/02/01	/ /	/ /
LABORATORY ID:	AC12709	AC12702		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.31 1.0	U		0.31 1.0	U							
2-METHYLNAPHTHALENE	0.3	U		0.3	U							
ACENAPHTHENE	0.29	U		0.29	U							
ACENAPHTHYLENE	0.2	U		0.2	U							
ANTHRACENE	0.11	U		0.11	U							
BENZO(A)ANTHRACENE	0.17	U		0.17	U							
BENZO(A)PYRENE	0.21	U		0.21	U							
BENZO(B)FLUORANTHENE	0.14	U		0.14	U							
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U							
BENZO(K)FLUORANTHENE	0.29	U		0.29	U							
CHRYSENE	0.16	U		0.16	U							
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U							
FLUORANTHENE	0.2	U		0.2	U							
FLUORENE	0.27	U		0.27	U							
INDENO(1,2,3-CD)PYRENE	0.25	U		0.25	U							
NAPHTHALENE	0.3	U		0.3	U							
PHENANTHRENE	0.26	U		0.26	U							
PYRENE	0.28	U		0.28	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1			EB-1			MW-10			MW-12		
SAMPLE DATE:	05/02/01			05/02/01			05/01/01			05/02/01		
LABORATORY ID:	AC12707			AC12706			AC12701			AC12704		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	20			0.9 ~~0.8~~ 1.0	J B ~~JB U~~	~~B~~	2.2	~~J~~ U	B	~~0.46~~ 1.0	~~JB~~ U	B

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-18			MW-17			MW-22			MW-23		
SAMPLE DATE:	05/02/01			05/01/01			05/02/01			05/02/01		
LABORATORY ID:	AC12703			AC12700			AC12705			AC12708		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	~~0.7~~ 1.0	~~JB~~ U	B	~~0.46~~ 1.0	~~JB~~ U	B	18			39		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-25D			MW-3								
SAMPLE DATE:	05/02/01			05/02/01			/ /			/ /		
LABORATORY ID:	AC12709			AC12702								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	MG/L			MG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	1.0 ~~0.57~~	~~JB~~ U	B	~~0.49~~ 1.0	~~JB~~ U	B A						

27775

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-1	AC12707	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	EB-1	AC12706	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-10	AC12701	NORMAL	27775	EDB	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-12	AC12704	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-13	AC12703	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-17	AC12700	NORMAL	27775	EDB	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-22	AC12705	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-23	AC12708	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-25D	AC12709	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-3	AC12702	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
MG/L	DUP-1	AC12707	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	EB-1	AC12706	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-10	AC12701	NORMAL	27775	M	05/01/01	05/11/01	05/15/01	10	4	14
MG/L	MW-12	AC12704	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-13	AC12703	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-17	AC12700	NORMAL	27775	M	05/01/01	05/11/01	05/15/01	10	4	14
MG/L	MW-22	AC12705	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-23	AC12708	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-25D	AC12709	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-3	AC12702	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
UG/L	DUP-1	AC12707	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	EB-1	AC12706	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-10	AC12701	NORMAL	27775	OS	05/01/01	05/08/01	05/14/01	7	6	13
UG/L	MW-12	AC12704	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-13	AC12703	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-17	AC12700	NORMAL	27775	OS	05/01/01	05/08/01	05/14/01	7	6	13
UG/L	MW-22	AC12705	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-23	AC12708	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-25D	AC12709	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-3	AC12702	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	DUP-1	AC12707	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	EB-1	AC12706	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-10	AC12701	NORMAL	27775	OV	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-12	AC12704	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-13	AC12703	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-17	AC12700	NORMAL	27775	OV	05/01/01	05/11/01	05/11/01	10	0	10
UG/L	MW-22	AC12705	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-23	AC12708	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-25D	AC12709	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-3	AC12702	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	TRIP BLANK	AC12711	NORMAL	27775	OV	05/01/01	05/11/01	05/11/01	10	0	10
UG/L	DUP-1	AC12707	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	EB-1	AC12706	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-10	AC12701	NORMAL	27775	PAH	05/01/01	05/08/01	05/15/01	7	7	14
UG/L	MW-12	AC12704	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-13	AC12703	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-17	AC12700	NORMAL	27775	PAH	05/01/01	05/08/01	05/15/01	7	7	14
UG/L	MW-22	AC12705	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-23	AC12708	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-25D	AC12709	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-3	AC12702	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
MG/L	DUP-1	AC12707	NORMAL	27775	TPH	05/02/01	05/08/01	05/18/01	6	10	16

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	EB-1	AC12706	NORMAL	27775	TPH	05/02/01	05/08/01	05/18/01	6	10	16
MG/L	MW-10	AC12701	NORMAL	27775	TPH	05/01/01	05/08/01	05/17/01	7	9	16
MG/L	MW-12	AC12704	NORMAL	27775	TPH	05/02/01	05/08/01	05/17/01	6	9	15
MG/L	MW-13	AC12703	NORMAL	27775	TPH	05/02/01	05/08/01	05/17/01	6	9	15
MG/L	MW-17	AC12700	NORMAL	27775	TPH	05/01/01	05/08/01	05/17/01	7	9	16
MG/L	MW-22	AC12705	NORMAL	27775	TPH	05/02/01	05/08/01	05/17/01	6	9	15
MG/L	MW-23	AC12708	NORMAL	27775	TPH	05/02/01	05/08/01	05/18/01	6	10	16
MG/L	MW-25D	AC12709	NORMAL	27775	TPH	05/02/01	05/08/01	05/18/01	6	10	16
MG/L	MW-3	AC12702	NORMAL	27775	TPH	05/02/01	05/08/01	05/17/01	6	9	15

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	DUP-1	EB-1	MW-10	MW-12
SAMPLE DATE:	05/02/01	05/02/01	05/01/01	05/02/01
LABORATORY ID:	AC12707	AC12706	AC12701	AC12704
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS													
ARSENIC	0.050	~~0.0052~~	U		0.050 ~~0.0052~~	U		0.050 ~~0.0052~~	U		0.050 ~~0.0052~~	U	
CADMIUM	0.0050	~~0.0004~~	U		~~0.0007~~ 0.0014	U	0.0050	~~0.0004~~	U	0.0050	~~0.0004~~	U	0.0050
CHROMIUM	0.050	0.0027	~~J~~ U	B R	~~0.0011~~ ~~0.050~~ ~~U~~	B	P	~~0.0002~~ 0.050 ~~J~~	U	B R	~~0.0012~~ 0.050 ~~J~~	U	B R
LEAD	0.010	~~0.0076~~	U ~~J~~	A P	~~0.0044~~ ~~0.010~~ ~~B~~ ~~J~~ 0.0041 J		A	~~0.0056~~ 0.010 ~~J~~	U	A	~~0.0048~~ 0.010 ~~J~~	U	A

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:	MW-13	MW-17	MW-22	MW-23
SAMPLE DATE:	05/02/01	05/01/01	05/02/01	05/02/01
LABORATORY ID:	AC12703	AC12700	AC12705	AC12708
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS					0.050			0.050			0.050		
ARSENIC	0.050	~~0.0052~~	U		~~0.0052~~	U		~~0.0052~~	U		~~0.0052~~	U	
CADMIUM	0.0050	~~0.0004~~	U		~~0.0004~~	U	0.0050	0.0013	J	P	~~0.0004~~	U	0.0050
CHROMIUM	0.050	~~0.0014~~	~~J~~ U	B ~~P~~	~~0.0018~~ 0.050	~~J~~ U	B ~~P~~	~~0.0027~~ 0.050	~~J~~ U	B ~~P~~	~~0.0016~~ 0.050	~~J~~ U	B ~~P~~
LEAD	0.010	~~0.0038~~	U		~~0.0040~~ 0.010	~~JB~~ U	A	~~0.0038~~ 0.010	U		~~0.0046~~ 0.010	~~JB~~ U	A

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27775

SAMPLE NUMBER:		MW-25D			MW-3							
SAMPLE DATE:		05/02/01			05/02/01			/ /			/ /	
LABORATORY ID:		AC12709			AC12702							
QC_TYPE:		NORMAL			NORMAL							
% SOLIDS:		0.0 %			0.0 %			100.0 %			100.0 %	
UNITS:		MG/L			MG/L							
FIELD DUPLICATE OF:												
		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS													
ARSENIC		0.014	J	P	0.050 ~~0.0052~~	U							
CADMIUM	0.0050	~~0.0004~~	U		~~0.0004~~	U	0.0050						
CHROMIUM	0.050	~~0.0012~~	U		~~0.0016~~ 0.050	U	B R						
LEAD	0.010	~~0.0039~~	U		~~0.0039~~ 0.010	U							

27775

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-1	AC12707	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	EB-1	AC12706	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-10	AC12701	NORMAL	27775	EDB	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-12	AC12704	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-13	AC12703	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-17	AC12700	NORMAL	27775	EDB	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-22	AC12705	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-23	AC12708	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-25D	AC12709	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-3	AC12702	NORMAL	27775	EDB	05/02/01	05/14/01	05/14/01	12	0	12
MG/L	DUP-1	AC12707	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	EB-1	AC12706	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-10	AC12701	NORMAL	27775	M	05/01/01	05/11/01	05/15/01	10	4	14
MG/L	MW-12	AC12704	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-13	AC12703	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-17	AC12700	NORMAL	27775	M	05/01/01	05/11/01	05/15/01	10	4	14
MG/L	MW-22	AC12705	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-23	AC12708	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-25D	AC12709	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
MG/L	MW-3	AC12702	NORMAL	27775	M	05/02/01	05/11/01	05/15/01	9	4	13
UG/L	DUP-1	AC12707	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	EB-1	AC12706	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-10	AC12701	NORMAL	27775	OS	05/01/01	05/08/01	05/14/01	7	6	13
UG/L	MW-12	AC12704	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-13	AC12703	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-17	AC12700	NORMAL	27775	OS	05/01/01	05/08/01	05/14/01	7	6	13
UG/L	MW-22	AC12705	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-23	AC12708	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-25D	AC12709	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	MW-3	AC12702	NORMAL	27775	OS	05/02/01	05/08/01	05/14/01	6	6	12
UG/L	DUP-1	AC12707	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	EB-1	AC12706	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-10	AC12701	NORMAL	27775	OV	05/01/01	05/14/01	05/14/01	13	0	13
UG/L	MW-12	AC12704	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-13	AC12703	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-17	AC12700	NORMAL	27775	OV	05/01/01	05/11/01	05/11/01	10	0	10
UG/L	MW-22	AC12705	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-23	AC12708	NORMAL	27775	OV	05/02/01	05/14/01	05/14/01	12	0	12
UG/L	MW-25D	AC12709	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	MW-3	AC12702	NORMAL	27775	OV	05/02/01	05/11/01	05/11/01	9	0	9
UG/L	TRIP BLANK	AC12711	NORMAL	27775	OV	05/01/01	05/11/01	05/11/01	10	0	10
UG/L	DUP-1	AC12707	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	EB-1	AC12706	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-10	AC12701	NORMAL	27775	PAH	05/01/01	05/08/01	05/15/01	7	7	14
UG/L	MW-12	AC12704	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-13	AC12703	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-17	AC12700	NORMAL	27775	PAH	05/01/01	05/08/01	05/15/01	7	7	14
UG/L	MW-22	AC12705	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-23	AC12708	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-25D	AC12709	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
UG/L	MW-3	AC12702	NORMAL	27775	PAH	05/02/01	05/08/01	05/15/01	6	7	13
MG/L	DUP-1	AC12707	NORMAL	27775	TPH	05/02/01	05/08/01	05/18/01	6	10	16

Original submittal

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27775
Client Project: NAS Pensacola, Bldg. 1932 / N0547/CTO 140
CTO Manager: Gerry Walker

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 05/03/01 at 0930:

Client I.D.	Laboratory I.D.
MW-17	AC12700
MW-10	AC12701
MW-3	AC12702
MW-13	AC12703
MW-12	AC12704
MW-22	AC12705
EB-1	AC12706
DUP-1	AC12707
MW-23	AC12708
MW-25D	AC12709
Trip Blank	AC12711

2. The sample cooler temperature was noted to be 5^0C upon receipt.

3. The "J" values noted for the PAH's-Low Level, FL-PRO, Metals, SVOC, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

4. The "B" values noted for the Metals and FLA-PRO analyses indicate that the compounds were detected in the samples and in the Method Blank, and the results should be considered estimated due to Method Blank contamination. Note that the Metal-Lead analysis reported on the Method Blank that was performed on 5/17/01 corresponds to sample DUP-1. DUP-1 initially had a hit above the reporting limit that was affected by blank contamination; therefore the sample was re-analyzed on 5/17/01.

5. The pH of the samples was 1.0 for the VOC analysis.

6. The following samples required dilution due to high analyte concentration, resulting in elevated detection limits:

FLA-PRO
MW-22
DUP-1
MW-23

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

7. The following surrogates were outside the method specified limits due to matrix interference as indicated by "Z" qualifier:

   SVOC – SW-846-8270C
   2,4,6-Tribromophenol - DUP-1 MW-23
   2-Fluorophenol - DUP-1 MW-23
   Phenol-d6 - DUP-1 MW-23

   PAH's by Low Level – SW-846-8270C
   2-Fluorobiphenyl - DUP-1 MW-23
   Nitrobenzene-d5 - MW-23

8. The following surrogates were outside the method specified limits as indicated by "Z" qualifier:

   FLA-PRO
   (Nonatriacontane/C39) - MW-17
   MW-10
   MW-3
   MW-13
   MW-12
   MW-22
   EB-1
   DUP-1
   MW-23
   MW-25D
   Method Blank
   Laboratory Control Sample
   Matrix Spike
   Matrix Spike Duplicate
   o-Terphenyl - MW-23
   Matrix Spike
   Matrix Spike Duplicate

   The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

9. The response of one or more internal standards was outside the method specified limits for the following sample due to matrix interference:

   PAH's by Low Level – SW-846-8270C
   MW-22

   No results were affected by the failed internal standard.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

10. The laboratory control sample recovery was outside the project specified limit for the following analytes:

SVOC – SW-846-8270C
Benyl Alcohol 4-Methylphenol Benzoic Acid 3-Methylphenol

PAH – SW-846-8270C
Benzo(a)pyrene

The laboratory control sample recovery was bias high for all analytes listed above except for Benzoic Acid whose recovery was bias low. For Benzo(a)pyrene, Benzyl Alcohol, 4-Methylphenol, and 3-Methylphenol , there were no hits in the samples; therefore the data was accepted. The results for Benzoic Acid should be considered estimated due to all recoveries are bias low.

11. The following spike recoveries were outside the project specified limits:

SVOC – SW-46-8270C
Matrix Spike - 3,3'-Dichlorobenzidine Benzyl alcohol 4-Nitrophenol Benzoic Acid Phenol
Matrix Spike Duplicate - Benzyl alcohol 4-Nitrophenol Benzoic Acid Phenol

12. The relative percent difference between the matrix spike and matrix spike duplicate was outside the project specified limit for the following analyte:

SVOC – SW-846-8270C
2,4-Dinitrophenol

Quality Assurance Officer
Camden L. Robinson

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

I Camden Robinson as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (770) 449-8800 if there are any questions or problems with the enclosed electronic deliverables.

Signature: Camden Robinson Title: Q.C. Officer Date: 4/8/01

29912

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Tetra Tech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee, F
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola, Bldg 1932
Project Number: CTO-140 - N0547

For Laboratory Use Only
Chain of Seal: Y N
Page 1 of 1
QC Level: N 1 2 3 4
Inlet Temp: 5.1/3.0
Sample Condition:
AAL Lab Project # 27975

Samplers: (signature) Dan Hartnett
Samplers: (printed) Dan Hartnett, Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	PAHs 8310	Phenols	Phenols-Acid Ext.	PCBs	MS/MSD			Remarks	Accura Sample ID No. AA
MW-17	5/1/01 1510		X			Bldg 1932	12	3	2	2	2	1	2					12700
MW-10	" 1620		X			" "	12	3	2	2	2	1	2				Moderate odors	1
MW-3	5/2/01 0830		X			" "	12	3	2	2	2	1	2					2
MW-13	" 1030		X			" "	12	3	2	2	2	1	2					3
MW-12	" 1340					Bldg 1932	15	3	2	2	2	1	2	3			ms/msD (No odor)	4
MW-22	" 1600					" "	12	*	*	*	*	*	*				petr. odors	5
~~Eq.~~ EB-1	" 1440					" "	12	*	*	*	*	*	*					6
Dup-1	" —					" "	12	*	*	*	*	*	*				petr. odors	7
MW-23	" 1800					" "	12	*	*	*	*	*	*				petr. odors	8
MW-25D	" 1820					" "	12	*	*	*	*	*	*					9

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/2/01 1940	Fedex		Trip Blank included
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
Fedex	5/3/01 9:30	[illegible]	5/3/01 9:30	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

29912

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Tetra Tech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee, F
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola, Bldg 1932
Project Number: CTO-140 - N0547

For Laboratory Use Only
Custody Seal: Y N Page 1 OF 1
QC Level: N 1 2 3 4 Init Temp: 5.1/3.0
Sample Condition: AAL Lab Project # 12775

Samplers: (signature) Dan Hartnett
Samplers: (printed) Dan Hartnett, Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	PAH's 8310	SVOC	Pb, As, Cd, Cr	FL-PRO	MS/MSD	Remarks	Accura Sample ID No. ABC
MW-17	5/1/01 1510		X			Bldg 1932	12	3	2	2	2	1	2			12700
MW-10	" 1620		X			" "	12	3	2	2	2	1	2		Moderate odors	1
MW-3	5/2/01 0830		X			" "	12	3	2	2	2	1	2			2
MW-13	" 1030		X			" "	12	3	2	2	2	1	2			3
MW-12	" 1340					Bldg 1932	15	3	2	2	2	1	2	3	ms/msD (No odors)	4
MW-22	" 1600					" "	12								petr. odors	5
(or ~~Eqp.~~ EB-1	" 1440					" "	12									6
Dup-1	" —					" "	12								petr. odors	7
MW-23	" 1800					" "	12								petr. odors	8
MW-25D	" 1820					" "	12									9

05.401

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/2/01 1900	Fedex	→	Trip Blank included
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
Fedex →	5/3/01 9:30	[illegible]	5/3/01 9:30	

AC12711

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12700** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/1/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA. BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-17**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0018	J	0.050
Lead	0.0048	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1.2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.46	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	83		
Nitrobenzene-d5	(Range 37-104)	82		
p-Terphenyl-d14	(Range 15-132)	86		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	13	Z	
o-Terphenyl (Range 82-142)	86		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	95		
4-Bromofluorobenzene (80-120)	104		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	88		
2-Fluorophenol	(Range 11-114)	49		
Nitrobenzene-d5	(Range 16-125)	87		
Phenol-d6	(Range 9-109)	34		
p-Terphenyl-d14	(Range 5-157)	93		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12701** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/1/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-10**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0022	J	0.050
Lead	0.0056	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	1.0		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	0.69	J	1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	0.48	J	1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	0.85	J	1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	2.2	B	1.0

ANALYSIS: SVOC's Navy

Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	1.2	J	3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	3.0		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	69		
p-Terphenyl-d14	(Range 15-132)	72		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/10/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	15	Z	
o-Terphenyl (Range 82-142)	104		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	92		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	71		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	72		
Phenol-d6	(Range 9-109)	30		
p-Terphenyl-d14	(Range 5-157)	78		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12702** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee**

Client Contact: GERRY WALKER

Client Project Number: N0547/CTO 140

Client Project Name: NAS PENSACOLA, BLDG 1932

Client Sample ID: **MW-3**

Date Sampled: 5/2/01
Date Received: 5/3/01
Date Reported: 5/29/01
Sample Matrix: WATER

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.49	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	80		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	12	Z	
o-Terphenyl (Range 82-142)	99		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	91		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	89		
2-Fluorobiphenyl	(Range 21-122)	71		
2-Fluorophenol	(Range 11-114)	42		
Nitrobenzene-d5	(Range 16-125)	73		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	89		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12703** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-13**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0014	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.70	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	1.9		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	60		
Nitrobenzene-d5	(Range 37-104)	64		
p-Terphenyl-d14	(Range 15-132)	69		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	18	Z	
o-Terphenyl (Range 82-142)	96		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	98		
4-Bromofluorobenzene (80-120)	99		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2.4.6-Tribromophenol	(Range 28-142)	83		
2-Fluorobiphenyl	(Range 21-122)	65		
2-Fluorophenol	(Range 11-114)	36		
Nitrobenzene-d5	(Range 16-125)	65		
Phenol-d6	(Range 9-109)	23		
p-Terphenyl-d14	(Range 5-157)	76		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12704** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA. BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-12**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0012	J	0.050
Lead	0.0043	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.46	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	4.6		1.5
Chloromethane	0.71	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	59		
Nitrobenzene-d5	(Range 37-104)	59		
p-Terphenyl-d14	(Range 15-132)	81		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	13	Z	
o-Terphenyl (Range 82-142)	97		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	103		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	69		
2-Fluorobiphenyl	(Range 21-122)	64		
2-Fluorophenol	(Range 11-114)	34		
Nitrobenzene-d5	(Range 16-125)	60		
Phenol-d6	(Range 9-109)	23		
p-Terphenyl-d14	(Range 5-157)	87		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12705** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-22**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	0.0013	J	0.0050
Chromium	0.0027	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	18	5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	1.9	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.4	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	77		
Nitrobenzene-d5	(Range 37-104)	75		
p-Terphenyl-d14	(Range 15-132)	65		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	40	Z	
o-Terphenyl (Range 82-142)	95		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1.2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	102		
Toluene-d8 (80-119)	101		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2.4.6-Tribromophenol	(Range 28-142)	120		
2-Fluorobiphenyl	(Range 21-122)	77		
2-Fluorophenol	(Range 11-114)	60		
Nitrobenzene-d5	(Range 16-125)	76		
Phenol-d6	(Range 9-109)	63		
p-Terphenyl-d14	(Range 5-157)	73		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12706** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 6/8/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **EB-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0014	J	0.050
Lead	0.0041	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	0.49	J	1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.90	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	1.2	J	5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	62		
Nitrobenzene-d5	(Range 37-104)	66		
p-Terphenyl-d14	(Range 15-132)	84		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	29	Z	
o-Terphenyl (Range 82-142)	103		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	102		
4-Bromofluorobenzene (80-120)	103		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	92		
2-Fluorobiphenyl	(Range 21-122)	67		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	67		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	84		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12707** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA. BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0027	J	0.050
Lead	0.0076	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	0.88	J	1.0
2-Methylnaphthalene	0.72	J	1.0
Acenaphthene	0.50	J	1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	0.30	J	1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	20		5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Client Sample ID: DUP-1 AALSample ID #: AC12707 Accura Project #: 27775

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	1.5	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	41	Z	
Nitrobenzene-d5	(Range 37-104)	39		
p-Terphenyl-d14	(Range 15-132)	48		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	Z	
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	99		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	0	Z	
2-Fluorobiphenyl	(Range 21-122)	43		
2-Fluorophenol	(Range 11-114)	1.9	Z	
Nitrobenzene-d5	(Range 16-125)	39		
Phenol-d6	(Range 9-109)	4.7	Z	
p-Terphenyl-d14	(Range 5-157)	53		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12708** **Accura Project #:** **27775**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA. BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-23**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	0.0046	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	6.5		1.0
2-Methylnaphthalene	2.5		1.0
Acenaphthene	3.8		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	0.30	J	1.0
Fluorene	3.1		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	1.5		1.0
Phenanthrene	2.7		1.0
Pyrene	0.49	J	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	39		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	2.2	J	10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	2.8	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Client Sample ID: MW-23 AALSample ID #: AC12708 Accura Project #: 27775

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	0.65	J	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	15		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.8		1.5
Naphthalene	5.4		2
n-Butylbenzene	0.61	J	5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	0.62	J	6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	5.7		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	33	Z	
Nitrobenzene-d5	(Range 37-104)	31	Z	
p-Terphenyl-d14	(Range 15-132)	43		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	24	Z	
o-Terphenyl (Range 82-142)	194	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	100		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	0	Z	
2-Fluorobiphenyl	(Range 21-122)	32		
2-Fluorophenol	(Range 11-114)	1.8	Z	
Nitrobenzene-d5	(Range 16-125)	29		
Phenol-d6	(Range 9-109)	2.7	Z	
p-Terphenyl-d14	(Range 5-157)	45		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12709** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/2/01

Client Contact: GERRY WALKER Date Received: 5/3/01

Client Project Number: N0547/CTO 140 Date Reported: 5/29/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-25D**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	0.014	J	0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.57	JB	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	68		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	85		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/18/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	14	Z	
o-Terphenyl (Range 82-142)	88		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	104		
4-Bromofluorobenzene (80-120)	104		
Toluene-d8 (80-119)	103		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	96		
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	46		
Nitrobenzene-d5	(Range 16-125)	71		
Phenol-d6	(Range 9-109)	30		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12710** **Accura Project #:** **27775**

Client: **Tetra Tech Nus -Tallahassee**

Client Contact: GERRY WALKER

Client Project Number: N0547/CTO 140

Client Project Name: NAS PENSACOLA, BLDG 1932

Client Sample ID: **METHOD BLANK**

Date Sampled: 5/3/01

Date Received: 5/3/01

Date Reported: 6/7/01

Sample Matrix: WATER

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0077	J	0.010

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0

Pyrene	<RL	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.39	J	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10

Dibenzofuran	<RL	10
Diethylphthalate	<RL	10
Dimethylphthalate	<RL	10
Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5

Chloroform	<RL	1.5
Chloromethane	<RL	6.5
cis-1,2-Dichloroethene	<RL	6
cis-1,3-Dichloropropene	<RL	5
Dibromochloromethane	<RL	2.5
Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X Base Neutral QC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 27-121)	53		
Nitrobenzene-d5	(Range 24-114)	54		
p-Terphenyl-d14	(Range 28-139)	80		

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	Z	
o-Terphenyl (Range 82-142)	107		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	94		
4-Bromofluorobenzene (81-118)	103		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC QC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/8/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 25-127)	75		
2-Fluorobiphenyl	(Range 27-121)	54		
2-Fluorophenol	(Range 24-101)	35		
Nitrobenzene-d5	(Range 24-114)	52		

Phenol-d6	(Range 26-104)	27
p-Terphenyl-d14	(Range 28-139)	90

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive. Norcross. Georgia 30071. Phone (770)449-8800. FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC12711 **Accura Project #:** 27775

Client: **Tetra Tech Nus -Tallahassee**

Client Contact: GERRY WALKER

Client Project Number: N0547/CTO 140

Client Project Name: NAS PENSACOLA. BLDG 1932

Client Sample ID: **TRIP BLANK**

Date Sampled: 5/1/01

Date Received: 5/3/01

Date Reported: 5/29/01

Sample Matrix: WATER

ANALYSIS: **VOC's Navy (25 ml purge)** Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	0.62	J	2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	100		
4-Bromofluorobenzene (80-120)	102		
Toluene-d8 (80-119)	101		

PROJECT QUALITY CONTROL RESULTS
AAL # 27775

Method No[1]	Analyte / Component	Project Control Rec. MS Water	Project Control Rec. MSD Water	Project Control Rec. MS Soil[2]	Project Control Rec. MSD Soil[2]	Accuracy Limits MS/MSD Recoveries Water	Accuracy Limits MS/MSD Recoveries Soil[2]	Project Control MS/MSD % Deviation Water	Project Control MS/MSD % Deviation Soil[2]	Precision Limits MS/MSD Deviation Water	Precision Limits MS/MSD Deviation Soil[2]	Project Control Recoveries LCS Water	Project Control Recoveries LCS Soil[2]	Accuracy Limits LCS Recoveries Water	Accuracy Limits LCS Recoveries Soil[2]	Project Control Field Dup % Deviation Water	Project Control Field Dup % Deviation Soil[2]	Precision Limits Field Dup Deviation Water	Precision Limits Field Dup Deviation Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	100	110			60-140	20-150	9%	#VALUE!	<30	<50	103		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	98	105			60-140	20-150	7%	#VALUE!	<30	<50	95		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	94	104			60-140	20-150	11%	#VALUE!	<30	<50	105		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	97	109			60-140	20-150	12%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	98	105			60-140	20-150	7%	#VALUE!	<30	<50	98		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	95	105			60-140	20-150	10%	#VALUE!	<30	<50	99		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	89	100			60-140	20-150	11%	#VALUE!	<30	<50	100		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	96	106			60-140	20-150	10%	#VALUE!	<30	<50	102		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	96	106			60-140	20-150	10%	#VALUE!	<30	<50	102		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	96	105			60-140	20-150	10%	#VALUE!	<30	<50	102		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	101	106			60-140	20-150	5%	#VALUE!	<30	<50	93		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	98	106			60-140	20-150	9%	#VALUE!	<30	<50	102		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	88	92			60-140	20-150	4%	#VALUE!	<30	<50	99		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	99	107			60-140	20-150	8%	#VALUE!	<30	<50	100		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	102	110			60-140	20-150	8%	#VALUE!	<30	<50	105		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	94	105			60-140	20-150	11%	#VALUE!	<30	<50	101		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	97	107			60-140	20-150	10%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	84	93			60-140	20-150	10%	#VALUE!	<30	<50	98		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	95	106			60-140	20-150	11%	#VALUE!	<30	<50	100		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	84	93			60-140	20-150	10%	#VALUE!	<30	<50	98		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	93	102			60-140	20-150	9%	#VALUE!	<30	<50	100		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	98	106			60-140	20-150	9%	#VALUE!	<30	<50	102		64-135	64-135			<50	<75
8260B	Benzene	98	107			60-140	20-150	9%	#VALUE!	<30	<50	100		65-135	65-135			<50	<75
8260B	Bromobenzene	94	103			60-140	20-150	10%	#VALUE!	<30	<50	101		65-135	65-135			<50	<75
8260B	Bromochloromethane	100	108			60-140	20-150	7%	#VALUE!	<30	<50	103		63-135	63-135			<50	<75
8260B	Bromodichloromethane	103	107			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	Bromoform	83	89			60-140	20-150	7%	#VALUE!	<30	<50	94		65-135	65-135			<50	<75
8260B	Bromomethane	85	101			60-140	20-150	18%	#VALUE!	<30	<50	85		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	100	107			60-140	20-150	7%	#VALUE!	<30	<50	98		52-135	52-135			<50	<75
8260B	Chlorobenzene	94	103			60-140	20-150	10%	#VALUE!	<30	<50	99		65-135	65-135			<50	<75
8260B	Chloroethane	96	104			60-140	20-150	8%	#VALUE!	<30	<50	92		55-135	55-135			<50	<75
8260B	Chloroform	105	112			60-140	20-150	6%	#VALUE!	<30	<50	98		64-135	64-135			<50	<75
8260B	Chloromethane	87	94			60-140	20-150	7%	#VALUE!	<30	<50	95		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	98	106			60-140	20-150	8%	#VALUE!	<30	<50	100		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	92	98			60-140	20-150	6%	#VALUE!	<30	<50	99		64-135	64-135			<50	<75
8260B	Dibromochloromethane	92	99			60-140	20-150	8%	#VALUE!	<30	<50	96		63-135	63-135			<50	<75
8260B	Dibromomethane	108	109			60-140	20-150	1%	#VALUE!	<30	<50	104		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	86	94			60-140	20-150	8%	#VALUE!	<30	<50	84		65-135	65-135			<50	<75
8260B	Ethylbenzene	99	107			60-140	20-150	8%	#VALUE!	<30	<50	101		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	98	110			60-140	20-150	12%	#VALUE!	<30	<50	106		65-135	65-135			<50	<75
8260B	Isopropylbenzene	93	103			60-140	20-150	10%	#VALUE!	<30	<50	100		65-135	65-135			<50	<75
8260B	total-Xylene	98	106			60-140	20-150	8%	#VALUE!	<30	<50	102		65-135	65-135			<50	<75
8260B	Methylene Chloride	101	115			60-140	20-150	13%	#VALUE!	<30	<50	100		65-135	65-135			<50	<75
8260B	n-Butylbenzene	98	106			60-140	20-150	8%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	n-Propylbenzene	95	104			60-140	20-150	9%	#VALUE!	<30	<50	102		65-135	65-135			<50	<75
8260B	Naphthalene	103	120			60-140	20-150	16%	#VALUE!	<30	<50	107		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	96	108			60-140	20-150	12%	#VALUE!	<30	<50	104		65-135	65-135			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL # 27775

8260B	Sec-Butylbenzene	96	106			60-140	20-150	10%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	Styrene	100	107			60-140	20-150	7%	#VALUE!	<30	<50	107		65-135	65-135			<50	<75
8260B	Trichloroethylene	100	108			60-140	20-150	8%	#VALUE!	<30	<50	100		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	95	104			60-140	20-150	9%	#VALUE!	<30	<50	103		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	97	104			60-140	20-150	7%	#VALUE!	<30	<50	98		61-135	61-135			<50	<75
8260B	Toluene	96	105			60-140	20-150	9%	#VALUE!	<30	<50	98		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	96	105			60-140	20-150	9%	#VALUE!	<30	<50	99		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	85	95			60-140	20-150	11%	#VALUE!	<30	<50	96		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	101	107			60-140	20-150	6%	#VALUE!	<30	<50	91		57-135	57-135			<50	<75
8260B	Vinyl Chloride	91	99			60-140	20-150	8%	#VALUE!	<30	<50	91		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	99	99			75-125	65-135	0%	#VALUE!	NA	NA	97		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	96	98			75-1225	65-135	2%	#VALUE!	NA	NA	98		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	105	103			62-139	52-149	2%	#VALUE!	NA	NA	92		NA	NA			NA	NA
	SEMI-VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8270C	1,2,4-Trichlorobenzene	85	84			60-140	20-150	1%	#DIV/0!	<30	<50	81		44-142	34-152			<50	<75
8270C	1,2-Dichlorobenzene	78	81			60-140	20-150	4%	#DIV/0!	<30	<50	78		42-155	32-135			<50	<75
8270C	1,3-Dichlorobenzene	76	78			60-140	20-150	3%	#DIV/0!	<30	<50	74		36-125	26-135			<50	<75
8270C	1,4-Dichlorobenzene	77	78			60-140	20-150	1%	#DIV/0!	<30	<50	73		30-125	25-135			<50	<75
8270C	2,4-Dinitrotoluene	85	93			60-140	20-150	9%	#DIV/0!	<30	<50	90		39-139	29-149			<50	<75
8270C	2,6-Dinitrotoluene	103	108			60-140	20-150	5%	#DIV/0!	<30	<50	105		51-125	41-135			<50	<75
8270C	2-Chloronaphthalene	97	96			60-140	20-150	1%	#DIV/0!	<30	<50	93		60-125	50-135			<50	<75
8270C	2-Methylnaphthalene	86	88			60-140	20-150	2%	#DIV/0!	<30	<50	87		41-125	31-135			<50	<75
8270C	2-Nitroaniline	102	110			60-140	20-150	8%	#DIV/0!	<30	<50	103		50-125	40-135			<50	<75
8270C	3,3'-Dichlorobenzidine	54	62			60-140	20-150	14%	#DIV/0!	<30	<50	81		29-175	25-175			<50	<75
8270C	3-Nitroaniline	99	104			60-140	20-150	5%	#DIV/0!	<30	<50	108		51-125	41-135			<50	<75
8270C	4-Bromophenyl-phenyl ether	109	104			60-140	20-150	5%	#DIV/0!	<30	<50	106		53-127	43-137			<50	<75
8270C	4-Chloroaniline	88	95			60-140	20-150	8%	#DIV/0!	<30	<50	92		45-136	35-146			<50	<75
8270C	4-Chlorophenyl-phenyl ether	102	103			60-140	20-150	1%	#DIV/0!	<30	<50	104		51-132	41-142			<50	<75
8270C	4-Nitroaniline	98	106			60-140	20-150	8%	#DIV/0!	<30	<50	108		40-143	30-153			<50	<75
8270C	Acenaphthylene	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	98		47-125	37-135			<50	<75
8270C	Acenaphthene	99	99			60-140	20-150	0%	#DIV/0!	<30	<50	98		49-124	39-135			<50	<75
8270C	Anthracene	104	105			60-140	20-150	1%	#DIV/0!	<30	<50	111		45-165	35-175			<50	<75
8270C	Benzo (a) anthracene	94	103			60-140	20-150	9%	#DIV/0!	<30	<50	106		51-133	41-143			<50	<75
8270C	Benzo (a) pyrene	74	86			60-140	20-150	15%	#DIV/0!	<30	<50	88		41-125	31-135			<50	<75
8270C	Benzo (b) fluoranthene	73	80			60-140	20-150	9%	#DIV/0!	<30	<50	80		37-125	27-135			<50	<75
8270C	Benzo (g,h,i) perylene	79	88			60-140	20-150	11%	#DIV/0!	<30	<50	91		34-149	25-159			<50	<75
8270C	Benzyl alcohol	22	23			60-140	20-150	4%	#DIV/0!	<30	<50	24		35-125	25-135			<50	<75
8270C	Bis (2-chloroethoxy) methane	92	98			60-140	20-150	6%	#DIV/0!	<30	<50	92		49-125	39-135			<50	<75
8270C	Bis (2-chloroethyl) ether	87	94			60-140	20-150	8%	#DIV/0!	<30	<50	91		44-125	34-135			<50	<75
8270C	Bis (2-chloroisopropyl) ether	87	98			60-140	20-150	12%	#DIV/0!	<30	<50	90		36-166	26-175			<50	<75
8270C	Bis (2-ethylhexyl) phthalate	95	104			60-140	20-150	9%	#DIV/0!	<30	<50	104		33-129	25-139			<50	<75
8270C	Butyl benzyl phthalate	105	114			60-140	20-150	8%	#DIV/0!	<30	<50	113		26-125	25-135			<50	<75
8270C	Chrysene	92	100			60-140	20-150	8%	#DIV/0!	<30	<50	105		55-133	45-143			<50	<75
8270C	Di-n-butyl phthalate	110	109			60-140	20-150	1%	#DIV/0!	<30	<50	113		34-126	25-136			<50	<75
8270C	Di-n-octyl phthalate	83	99			60-140	20-150	18%	#DIV/0!	<30	<50	90		38-127	28-137			<50	<75
8270C	Dibenzo (a,h) anthracene	75	83			60-140	20-150	10%	#DIV/0!	<30	<50	83		50-125	40-135			<50	<75
8270C	Dibenzofuran	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	102		52-125	42-135			<50	<75
8270C	Diethyl phthalate	106	107			60-140	20-150	1%	#DIV/0!	<30	<50	109		37-125	27-135			<50	<75
8270C	Dimethyl phthalate	105	104			60-140	20-150	1%	#DIV/0!	<30	<50	108		25-175	25-175			<50	<75
8270C	Fluoranthene	104	109			60-140	20-150	5%	#DIV/0!	<30	<50	113		47-125	37-135			<50	<75
8270C	Fluorene	102	103			60-140	20-150	1%	#DIV/0!	<30	<50	101		48-139	38-149			<50	<75
8270C	Hexachlorobenzene	108	104			60-140	20-150	4%	#DIV/0!	<30	<50	113		46-133	36-143			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL # 27775

8270C	Hexachlorobutadiene	79	76			60-140	20-150	4%	#DIV/0!	<30	<50	77			25-125	25-135			<50	<75
8270C	Hexachlorocyclopentadiene	61	62			60-140	20-150	2%	#DIV/0!	<30	<50	71			41-125	31-135			<50	<75
8270C	Hexachloroethane	76	73			60-140	20-150	4%	#DIV/0!	<30	<50	69			25-153	25-163			<50	<75
8270C	Indeno (1,2,3-c,d) pyrene	80	91			60-140	20-150	13%	#DIV/0!	<30	<50	80			27-160	25-170			<50	<75
8270C	Isophorone	95	101			60-140	20-150	6%	#DIV/0!	<30	<50	91			26-175	25-175			<50	<75
8270C	N-Nitrosodi-n-propylamine	86	97			60-140	20-150	12%	#DIV/0!	<30	<50	89			37-125	27-135			<50	<75
8270C	N-Nitrosodiphenylamine	110	107			60-140	20-150	3%	#DIV/0!	<30	<50	115			27-125	25-135			<50	<75
8270C	Naphthalene	86	89			60-140	20-150	3%	#DIV/0!	<30	<50	86			50-125	40-135			<50	<75
8270C	Nitrobenzene	89	96			60-140	20-150	8%	#DIV/0!	<30	<50	89			46-133	36-143			<50	<75
8270C	Phenanthrene	107	107			60-140	20-150	0%	#DIV/0!	<30	<50	113			54-125	44-135			<50	<75
8270C	Pyrene	110	109			60-140	20-150	1%	#DIV/0!	<30	<50	118			47-136	37-146			<50	<75
8270C	2,4,5-Trichlorophenol	103	103			60-140	20-150	0%	#DIV/0!	<30	<50	102			25-175	25-175			<50	<75
8270C	2,4,6-Trichlorophenol	98	103			60-140	20-150	5%	#DIV/0!	<30	<50	92			39-128	29-138			<50	<75
8270C	2,4-Dichlorophenol	91	102			60-140	20-150	11%	#DIV/0!	<30	<50	92			46-125	36-135			<50	<75
8270C	2,4-Dimethylphenol	82	89			60-140	20-150	8%	#DIV/0!	<30	<50	91			45-139	35-149			<50	<75
8270C	2,4-Dinitrophenol	78	124			60-140	20-150	46%	#DIV/0!	<30	<50	76			30-151	25-161			<50	<75
8270C	2-Chlorophenol	80	85			60-140	20-150	6%	#DIV/0!	<30	<50	81			41-125	31-135			<50	<75
8270C	2-Methylphenol	79	82			60-140	20-150	4%	#DIV/0!	<30	<50	84			25-125	25-135			<50	<75
8270C	2-Nitrophenol	77	90			60-140	20-150	16%	#DIV/0!	<30	<50	74			44-125	34-135			<50	<75
8270C	4,6-Dinitro-2-methyl phenol	81	94			60-140	20-150	15%	#DIV/0!	<30	<50	75			26-134	25-144			<50	<75
8270C	4-Chloro-3-methyl phenol	98	104			60-140	20-150	6%	#DIV/0!	<30	<50	99			44-125	34-135			<50	<75
8270C	4-Methylphenol	129	137			60-140	20-150	6%	#DIV/0!	<30	<50	144			33-125	25-135			<50	<75
8270C	4-Nitrophenol	42	46			60-140	20-150	9%	#DIV/0!	<30	<50	58			25-131	25-141			<50	<75
8270C	Benzoic acid	33	37			60-140	20-150	11%	#DIV/0!	<30	<50	19			25-162	25-172			<50	<75
8270C	Pentachlorophenol	111	115			60-140	20-150	4%	#DIV/0!	<30	<50	107			28-136	38-146			<50	<75
8270C	Phenol	43	45			60-140	20-150	5%	#DIV/0!	<30	<50	54			25-125	25-135			<50	<75
8270C	3-Methylphenol	129	137			60-140	20-150	6%	#DIV/0!	<30	<50	144			25-125	25-135			<50	<75
8270C	Benzo (k) fluoranthene	86	98			60-140	20-150	13%	#DIV/0!	<30	<50	97			37-123	37-123			<50	<75
8270C	Carbazole	108	110			60-140	20-150	2%	#DIV/0!	<30	<50	111			34-132	34-132			<50	<75
8270C	2,4,6-Tribromophenol	89	90			25-134	19-122	1%	#DIV/0!			92								
8270C	2-Fluorobiphenyl	79	84			43-125	34-135	6%	#DIV/0!			81								
8270C	2-Fluorophenol	44	45			25-125	25-135	2%	#DIV/0!			53								
8270C	Nitrobenzene-d5	71	77			32-125	25-135	8%	#DIV/0!			73								
8270C	Phenol-d5	32	33			25-125	25-135	3%	#DIV/0!			41								
8270C	Terphenyl-d14	86	84			42-126	32-136	2%	#DIV/0!			97								
	METALS BY ICP					%	%			%	%				%	%			%	%
6010B	Arsenic	105	103			50-150	30-170	2%	#DIV/0!	<30	<50	106			79-115	79-115			<50	<75
6010B	Cadmium	102	96			50-150	30-170	6%	#DIV/0!	<30	<50	106			78-118	78-118			<50	<75
6010B	Chromium	103	97			50-150	30-170	6%	#DIV/0!	<30	<50	105			82-115	82-115			<50	<75
6010B	Lead	108	103			50-150	30-170	5%	#DIV/0!	<30	<50	105			79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%				%	%			%	%
FL-PRO	TPH	59	58			50-150	30-170	2%	#DIV/0!	<30	<50	82			75-125	70-130			<50	<75
	LOW LEVEL PAH'S BY GC/MS					%	%			%	%				%	%			%	%
8270C	1-Methylnaphthalene	82	85			41-125	31-135	4%	#DIV/0!	<30	<50	83			41-125	31-135			<50	<75
8270C	2-Methylnaphthalene	91	93			41-125	31-135	2%	#DIV/0!	<30	<50	90			41-125	31-135			<50	<75
8270C	Acenaphthylene	94	97			47-125	37-135	3%	#DIV/0!	<30	<50	95			47-125	37-135			<50	<75
8270C	Acenaphthene	92	93			49-124	39-135	1%	#DIV/0!	<30	<50	92			49-124	39-135			<50	<75
8270C	Anthracene	101	104			45-165	35-175	3%	#DIV/0!	<30	<50	112			45-165	35-175			<50	<75
8270C	Benzo (a) anthracene	104	107			51-133	41-143	3%	#DIV/0!	<30	<50	114			51-133	41-143			<50	<75
8270C	Benzo (a) pyrene	115	116			41-125	31-135	1%	#DIV/0!	<30	<50	143			41-125	31-135			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL # 27775

8270C	Benzo (b) fluoranthene	118	116			37-125	27-135	2%	#DIV/0!	<30	<50	119		37-125	27-135			<50	<75
8270C	Benzo (g,h,i) perylene	112	114			34-149	25-159	2%	#DIV/0!	<30	<50	124		34-149	25-159			<50	<75
8270C	Benzo (k) fluoranthene	102	109			37-123	37-123	7%	#DIV/0!	<30	<50	103		37-123	37-123			<50	<75
8270C	Chrysene	100	103			55-133	45-143	3%	#DIV/0!	<30	<50	110		55-133	45-143			<50	<75
8270C	Dibenzo (a,h) anthracene	101	104			50-125	40-135	3%	#DIV/0!	<30	<50	112		50-125	40-135			<50	<75
8270C	Fluoranthene	108	112			47-125	37-135	4%	#DIV/0!	<30	<50	120		47-125	37-135			<50	<75
8270C	Fluorene	107	110			48-139	38-149	3%	#DIV/0!	<30	<50	110		48-139	38-149			<50	<75
8270C	Indeno (1,2,3-c,d) pyrene	115	118			27-160	25-170	3%	#DIV/0!	<30	<50	129		27-160	25-170			<50	<75
8270C	Naphthalene	89	93			50-125	40-135	4%	#DIV/0!	<30	<50	90		50-125	40-135			<50	<75
8270C	Phenanthrene	99	102			54-125	44-135	3%	#DIV/0!	<30	<50	108		54-125	44-135			<50	<75
8270C	Pyrene	107	107			47-136	37-146	0%	#DIV/0!	<30	<50	111		47-136	37-146			<50	<75
8270C	2-Fluorobiphenyl	73	77			43-125	34-135	5%	#DIV/0!	<30	<50	75							
8270C	Nitrobenzene-d5	73	79			32-125	25-135	8%	#DIV/0!	<30	<50	77							
8270C	Terphenyl-d14	84	85			42-126	32-136	1%	#DIV/0!	<30	<50	93							
	EDB					%	%			%	%			%	%			%	%
504.1	1,2-Dibromoethane	105	107			60-140	20-150	2%	#VALUE!	<30	<50	95		62-108	62-108			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

Tetra Tech NUS, Inc. **Internal Correspondence**

TO: **Mr. Gerald Walker** **DATE: August 1, 2001**

FROM: **Suzanne Smith** **CC: File**

SUBJECT: **Organic and Inorganic Data Validation – VOC, EDB, SVOC, PAH, TRPH, and Metals**
CTO140 – NAS Pensacola, Building 1932
SDG 27799

SAMPLES: **10/Aqueous**

DUP-2	**MW-1**	**MW-11**	**MW-14**	**MW-18**
MW-21	**MW-4**	**MW-7**	**MW-9**	**TB27799**

OVERVIEW

The sample set for CTO140, SDG 27799; Naval Air Station Pensacola, Building 1932, Pensacola, Florida consists of nine (9) aqueous environmental samples and one (1) trip blank. The environmental samples and equipment blank were analyzed for Volatile Organic Carbons (VOCs), EDB, Semi-Volatile Organic Carbons (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Residual Petroleum Hydrocarbons (TRPHs), and select Metals. The trip blank was analyzed for VOCs only. A duplicate pair was included in this SDG: MW-9 / DUP-2.

The samples were collected by Tetra Tech NUS on May 3 and 4, 2001 and analyzed by Accura Analytical Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8260B (VOCs), EPA Method 504.1 (EDB), SW-846 method 8270C (SVOCs), SW-846 method 8310 (PAHs), FL-PRO (TRPHs), and SW-846 6010B (select Metals) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- Data Completeness
- * Holding Times
- Laboratory method/field quality control blank results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

Note : There are two sets of data for the Volatiles portion of this SDG. Originally, the compounds reported did not match those requested in the Statement of Work so the data had to be resubmitted with different compounds. The Volatiles spreadsheet for the SDG contains data from both submittals. Some samples had to be diluted due to matrix interference and it is possible that some detection limit requirements were not met for this reason.

Volatile and EDB Fractions

Lab Blank Analysis

Samples Affected: MW-18, MW-7, MW-1, MW-11 (methylene chloride)

Analyte	Maximum Concentration (ug/L)	Action Limit (ug/L)
Chlorobenzene	0.57	2.85
Methylene Chloride	1.9	9.5

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in laboratory method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Semivolatile Fraction

All quality control criteria were met for this fraction.

Polycyclic Aromatic Hydrocarbon Fraction

All quality control criteria were met for this fraction.

Total Residual Petroleum Fraction

Blank Analysis

Samples Affected: None

	Maximum Concentration (mg/L)	Action Limit (mg/L)
TRPH	0.49	2.45

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Metals Fraction

Blank Analysis

Samples Affected: MW-1, MW-18, MW-21, MW-7, and MW-9

Analyte	Maximum Concentration (mg/L)	Action Limit (mg/L)
Lead	0.0052	0.026

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination. All quality control criteria were met for this fraction.

Duplicate Sample Analysis

	MW-9 (ug/L)	DUP-2 (ug/L)	%RPD
1,2,4-Trimethylbenzene	80	82	2.5
1,3,5-Trimethylbenzene	36	38	5.4
4-Isopropyltoluene	2.8	3	6.9
Benzene	4.1	3.9	5
Ethylbenzene	32	32	0
Isopropylbenzene	4.2	4.2	0
n-Propylbenzene	6.2	6.1	1.6
Naphthalene (VOCs)	120	120	0
Toluene	5	5.3	5.8
Total Xylenes	120	120	0
2-Methylnaphthalene	46	45	2.2
2-Methylphenol	12	12	0
3,4-Methylphenol	83	87	4.7
Naphthalene (SVOCs)	44	48	8.7
1-methylnaphthalene (PAHs)	37	38	2.7
2-methylnaphthalene (PAHs)	49	49	0
Acenaphthene (PAHs)	6.6	6.6	0
Fluorene (PAHs)	7.6	7.2	5.4
Naphthalene (PAHs)	44	46	4.4
Phenanthrene (PAHs)	5.6	5.2	7.4
TRPH	30 mg/L	33 mg/L	9.5
Chromium	0.0029 mg/L	0.0028 mg/L	3.4

No qualifications were made due to duplicate sample analysis.

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	mw-9											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	12	U		~~1~~ 2.5	U		~~1~~ 2.5	U		~~1~~ 2.5	U	
1,1,1-TRICHLOROETHANE	~~20~~ 5.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U	
1,1,2,2-TETRACHLOROETHANE	~~10~~	U		~~2~~	U		~~2~~	U		~~2~~	U	
1,1,2-TRICHLOROETHANE	~~25~~	U		~~5~~	U		~~5~~	U		~~5~~	U	
1,1-DICHLOROETHANE	~~10~~	U		~~2~~	U		~~2~~	U		~~2~~	U	
1,1-DICHLOROETHENE	~~30~~	U		~~6~~	U		~~6~~	U		~~6~~	U	
1,2,3-TRICHLOROBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2,3-TRICHLOROPROPANE	80	U		16	U		16	U		16	U	
1,2,4-TRICHLOROBENZENE	10	U		2	U		2	U		2	U	
1,2,4-TRIMETHYLBENZENE												
1,2-DIBROMO-3-CHLOROPROPANE	65	U		13	U		13	U		13	U	
1,2-DIBROMOETHANE	~~15~~ 0.05	U		~~3~~ 0.05	U		~~3~~ 0.05	U		~~3~~ 0.05	U	
1,2-DICHLOROBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2-DICHLOROETHANE	~~15~~ 5.0	U		~~3~~ 1.0	U		~~3~~ 1.0	U		~~3~~ 1.0	U	
1,2-DICHLOROPROPANE	~~10~~	U		~~2~~	U		~~2~~	U		~~2~~	U	
1,3,5-TRIMETHYLBENZENE												
1,3-DICHLOROBENZENE	30	U		6	U		6	U		6	U	
1,3-DICHLOROPROPANE	10	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
2,2-DICHLOROPROPANE	88	U		~~18~~ 17.5	U		~~18~~ 17.5	U		~~18~~ 17.5	U	
2-CHLOROETHYL VINYL ETHER	50	U		10	U		10	U		10	U	
2-CHLOROTOLUENE	10	U		2	U		2	U		2	U	
4-CHLOROTOLUENE	15	U		3	U		3	U		3	U	
4-ISOPROPYLTOLUENE												
ACROLEIN	50	U		10	U		10	U		10	U	
ACRYLONITRILE	50	U		10	U		10	U		10	U	
BENZENE				1	U		1	U		1	U	
BROMOBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
BROMOCHLOROMETHANE	10	U		2	U		2	U		2	U	
BROMODICHLOROMETHANE	~~20~~ 5.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U	
BROMOFORM	~~80~~	U		~~8~~	U		~~8~~	U		~~8~~	U	
BROMOMETHANE	~~25~~	U		~~6~~	U		~~6~~	U		~~6~~	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2	MW-1	MW-11	MW-14
SAMPLE DATE:	05/04/01	05/04/01	05/04/01	05/03/01
LABORATORY ID:	AC12913	AC12912	AC12915	AC12917
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

VOLATILES	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
CARBON TETRACHLORIDE	~~52~~ 5.0	U		~~11~~ 1.0	U		~~11~~ 1.0	U		~~11~~ 1.0	U	
CHLOROBENZENE	~~10~~ ↓	U		~~2~~ ↓	U		~~2~~ ↓	U		~~2~~ ↓	U	
CHLORODIBROMOMETHANE	12 •	U		~~2~~ 2.5	U		~~2~~ 2.5	U		~~2~~ 2.5	U	
CHLOROETHANE	25 •	U		5 •	U		5 •	U		5 •	U	
CHLOROFORM	~~8~~ 5.0	U		~~2~~ 1.0	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
CHLOROMETHANE	~~22~~ ↓	U		~~7~~ ↓	U		~~7~~ ↓	U		~~7~~ ↓	U	
CIS-1,2-DICHLOROETHENE	30 •	U		6 •	U		6 •	U		6 •	U	
DIBROMOMETHANE	60 •	U		12 •	U		12 •	U		12 •	U	
DICHLORODIFLUOROMETHANE	25 •	U		5 •	U		5 •	U		5 •	U	
ETHYLBENZENE												
HEXACHLOROBUTADIENE	28 •	U		~~8~~ 5.5	U		~~8~~ 5.5	U		~~8~~ 5.5	U	
ISOPROPYLBENZENE												
METHYLENE CHLORIDE	~~8~~ 25	U		~~11~~ 5.0	U	B	~~2~~ 5.0	U	B	~~2~~ 5.0	U	
N-BUTYLBENZENE	28 •	U		~~8~~ 5.5	U		~~8~~ 5.5	U		~~8~~ 5.5	U	
N-PROPYLBENZENE							8 •	U				
NAPHTHALENE												
SEC-BUTYLBENZENE	32 •	U					~~7~~ 6.5	U				
STYRENE	10 •	U		2 •	U		2 •	U		2 •	U	
TERT-BUTYLBENZENE	35 •	U		7 •	U		7 •	U				
TETRACHLOROETHENE	~~25~~ 5.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U		~~7~~ 1.0	U	
TOLUENE				~~9~~ ↓	U					~~9~~ ↓	U	
TOTAL XYLENES												
TRANS-1,2-DICHLOROETHENE	~~18~~ 5.0	U		~~3~~ 1.0	U		~~3~~ 1.0	U		~~3~~ 1.0	U	
TRANS-1,3-DICHLOROPROPENE	25 •	U		5 •	U		5 •	U		5 •	U	
TRICHLOROETHENE	~~28~~ 5.0	U		~~5~~ 1.0	U		~~5~~ 1.0	U		~~5~~ 1.0	U	
TRICHLOROFLUOROMETHANE	20 •	U		4 •	U		4 •	U		4 •	U	
VINYL CHLORIDE	~~28~~ 5.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U		~~8~~ 1.0	U	
1,3-Dichloropropene	5.0	U		1.0	U		1.0	U		1.0	U	
Methyl tert-butyl ether	50	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1,2-TETRACHLOROETHANE	~~5~~ 2.5	U		25	U		~~5~~ 2.5	U		~~5~~ 2.5	U	
1,1,1-TRICHLOROETHANE	~~1~~ 1.0	U		~~10~~ 10	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
1,1,2,2-TETRACHLOROETHANE	~~2~~	U		~~20~~	U		~~2~~	U		~~2~~	U	
1,1,2-TRICHLOROETHANE	~~5~~	U		~~50~~	U		~~5~~	U		~~5~~	U	
1,1-DICHLOROETHANE	~~2~~	U		~~20~~	U		~~2~~	U		~~2~~	U	
1,1-DICHLOROETHENE	~~5~~	U		~~50~~	U		~~5~~	U		~~5~~	U	
1,2,3-TRICHLOROBENZENE	~~2~~ 1.5	U		15	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2,3-TRICHLOROPROPANE	16	U		160	U		16	U		16	U	
1,2,4-TRICHLOROBENZENE	2	U		20	U		2	U		2	U	
1,2,4-TRIMETHYLBENZENE												
1,2-DIBROMO-3-CHLOROPROPANE	13	U		130	U		13	U		13	U	
1,2-DIBROMOETHANE	~~5~~ 0.05	U		~~50~~ 0.05	U		~~2~~ 0.05	U		~~2~~ 0.05	U	
1,2-DICHLOROBENZENE	~~2~~ 1.5	U		15	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2-DICHLOROETHANE	~~5~~ 1.0	U		~~10~~ 10	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
1,2-DICHLOROPROPANE	~~2~~	U		~~20~~	U		~~2~~	U		~~2~~	U	
1,3,5-TRIMETHYLBENZENE							~~5~~ 2.5	U				
1,3-DICHLOROBENZENE	6	U		60	U		6	U		6	U	
1,3-DICHLOROPROPANE	2	U		20	U		2	U		2	U	
1,4-DICHLOROBENZENE	~~2~~ 1.5	U		15	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
2,2-DICHLOROPROPANE	18	U		180	U		~~18~~ 17.5	U		~~18~~ 17.5	U	
2-CHLOROETHYL VINYL ETHER	10	U		100	U		10	U		10	U	
2-CHLOROTOLUENE	2	U		20	U		2	U		2	U	
4-CHLOROTOLUENE	3	U		30	U		3	U		3	U	
4-ISOPROPYLTOLUENE							6	U				
ACROLEIN	10	U		100	U		10	U		10	U	
ACRYLONITRILE	10	U		100	U		10	U		10	U	
BENZENE				10	U		1	U		1	U	
BROMOBENZENE	~~2~~ 1.5	U		15	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
BROMOCHLOROMETHANE	2	U		20	U		2	U		2	U	
BROMODICHLOROMETHANE	~~1~~ 1.0	U		~~10~~ 10	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
BROMOFORM	~~5~~	U		60	U		~~5~~	U		~~5~~	U	
BROMOMETHANE	~~5~~	U		~~50~~	U		~~5~~	U		~~5~~	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	~~10~~ 1.0	U		~~10~~ 10	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
CHLOROBENZENE	~~2~~ ↓	U		~~20~~ ↓	U		~~2~~ ↓	U		~~2~~ ↓	U	
- CHLORODIBROMOMETHANE	~~5~~ 2.5	U		25 •	U		~~5~~ 2.5	U		~~5~~ 2.5	U	
- CHLOROETHANE	5 •	U		50 •	U		5 •	U		5 •	U	
CHLOROFORM	~~2~~ 1.0	U		~~10~~ 10	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
CHLOROMETHANE	~~7~~ ↓	U		~~60~~ ↓	U		~~7~~ ↓	U		~~7~~ ↓	U	
- CIS-1,2-DICHLOROETHENE	6 •	U		60 •	U		6 •	U		6 •	U	
- DIBROMOMETHANE	12 •	U		120 •	U		12 •	U		12 •	U	
- DICHLORODIFLUOROMETHANE	5 •	U		50 •	U		5 •	U		5 •	U	
ETHYLBENZENE							~~5~~ 1.0	U				
- HEXACHLOROBUTADIENE	~~5~~ 5.5	U		55 •	U		~~5~~ 5.5	U		~~5~~ 5.5	U	
- ISOPROPYLBENZENE	~~2~~ 2.5	U					~~2~~ 2.5	U		~~2~~ 2.5	U	
METHYLENE CHLORIDE	5.0 ~~2~~ ~~10~~ U ~~1~~ ~~5~~		~~1~~ B				~~2~~ 5.0	U		~~2~~ ~~12.5~~ ~~1~~ ~~5~~ U		~~1~~ B
- N-BUTYLBENZENE	~~5~~ 5.5	U		55 •	U		~~5~~ 5.5	U		~~5~~ 5.5	U	
- N-PROPYLBENZENE							2 •	U		2 •	U	
- NAPHTHALENE												
- SEC-BUTYLBENZENE				65 •	U							
- STYRENE	2 •	U		20 •	U		~~7~~ 6.5	U		~~7~~ 6.5	U	
- TERT-BUTYLBENZENE	7 •	U		70 •	U		2 •	U		2 •	U	
TETRACHLOROETHENE	~~1~~ 1.0	U		~~10~~ 10	U		7 •	U		7 •	U	
TOLUENE				~~5~~ ↓	U		~~1~~ 1.0	U		~~1~~ 1.0	U	
TOTAL XYLENES							8 • ↓	U				
TRANS-1,2-DICHLOROETHENE	~~2~~ 1.0	U		~~30~~ 10	U		~~5~~ 2.0	U				
- TRANS-1,3-DICHLOROPROPENE	5 •	U		50 •	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
TRICHLOROETHENE	~~5~~ 1.0	U		~~50~~ 10	U		5 •	U		5 •	U	
- TRICHLOROFLUOROMETHANE	4 •	U		40 •	U		~~5~~ 1.0	U		~~5~~ 1.0	U	
VINYL CHLORIDE	~~5~~ 1.0	U		~~50~~ 10	U		4 •	U		4 •	U	
1,3-Dichloropropene	1.0	U		10	U		~~5~~ 1.0	U		~~5~~ 1.0	U	
Methyl tert-butyl ether	10	U		100	U		1.0	U		1.0	U	
							10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9			TB27799			TB2799			/ /		
SAMPLE DATE:	05/04/01			05/03/01			05/03/01					
LABORATORY ID:	AC12911			AC12916			AC12916					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	0.0 %			0.0 %			0.0 %			100.0 %		
UNITS:	UG/L			UG/L			UG/L					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	12	U		~~8~~ 2.5	U							
1,1,1-TRICHLOROETHANE	~~20~~ 5.0	U		~~4~~ 1.0	U							
1,1,2,2-TETRACHLOROETHANE	~~10~~	U		~~2~~	U							
1,1,2-TRICHLOROETHANE	~~25~~	U		~~5~~	U							
1,1-DICHLOROETHANE	~~10~~	U		~~2~~	U							
1,1-DICHLOROETHENE	~~30~~	U		~~6~~	U							
1,2,3-TRICHLOROBENZENE	~~8~~ 7.5	U		~~7~~ 1.5	U							
1,2,3-TRICHLOROPROPANE	80	U		16	U							
1,2,4-TRICHLOROBENZENE	10	U		2	U							
1,2,4-TRIMETHYLBENZENE	[redacted]			~~7~~ 6.5	U							
1,2-DIBROMO-3-CHLOROPROPANE	65	U		13	U							
1,2-DIBROMOETHANE	~~10~~ 0.05	U		~~0~~	U	← not analyzed for this parameter						
1,2-DICHLOROBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U							
1,2-DICHLOROETHANE	~~10~~ 5.0	U		~~5~~ 1.0	U							
1,2-DICHLOROPROPANE	~~10~~	U		~~2~~	U							
1,3,5-TRIMETHYLBENZENE	[redacted]			~~8~~ 2.5	U							
1,3-DICHLOROBENZENE	30	U		6	U							
1,3-DICHLOROPROPANE	10	U		2	U							
1,4-DICHLOROBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U							
2,2-DICHLOROPROPANE	88	U		~~18~~ 17.5	U							
2-CHLOROETHYL VINYL ETHER	50	U		10	U							
2-CHLOROTOLUENE	10	U		2	U							
4-CHLOROTOLUENE	15	U		3	U							
4-ISOPROPYLTOLUENE	[redacted]			6	U							
ACROLEIN	50	U		10	U							
ACRYLONITRILE	50	U		10	U							
BENZENE	[redacted]			1	U							
BROMOBENZENE	~~8~~ 7.5	U		~~2~~ 1.5	U							
BROMOCHLOROMETHANE	10	U		2	U							
BROMODICHLOROMETHANE	~~20~~ 5.0	U		~~4~~ 1.0	U							
BROMOFORM	~~20~~	U		~~8~~	U							
BROMOMETHANE	~~28~~	U		~~8~~	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9	TB27799	TB2799	/ /
SAMPLE DATE:	05/04/01	05/03/01	05/03/01	
LABORATORY ID:	AC12911	AC12916	AC12916	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	~~52~~ 5.0	U		~~1~~ 1.0	U							
CHLOROBENZENE	~~10~~ ↓	U		[redacted]								
CHLORODIBROMOMETHANE	12 •	U		~~8~~ 2.5	U							
CHLOROETHANE	25 •	U		5 •	U							
CHLOROFORM	~~5~~ 5.0	U		~~2~~ 1.0	U							
CHLOROMETHANE	~~82~~ ↓	U		~~7~~ ↓	U							
CIS-1,2-DICHLOROETHENE	30 •	U		6 •	U							
DIBROMOMETHANE	60 •	U		12 •	U							
DICHLORODIFLUOROMETHANE	25 •	U		5 •	U							
ETHYLBENZENE	[redacted]			~~3~~ 1.0	U							
HEXACHLOROBUTADIENE	28 •	U		~~8~~ 5.5	U							
ISOPROPYLBENZENE	[redacted]			~~8~~ 2.5	U							
METHYLENE CHLORIDE	~~8~~ 25	U		[redacted]								
N-BUTYLBENZENE	28 •	U		~~8~~ 5.5	U							
N-PROPYLBENZENE	[redacted]			2 •	U							
NAPHTHALENE	[redacted]			2 •	U							
SEC-BUTYLBENZENE	32 •	U		~~7~~ 6.5	U							
STYRENE	10 •	U		2 •	U							
TERT-BUTYLBENZENE	35 •	U		7 •	U							
TETRACHLOROETHENE	~~35~~ 5.0	U		~~7~~ 1.0	U							
TOLUENE	[redacted]			~~8~~ ↓	U							
TOTAL XYLENES	[redacted]			~~5~~ 2.0	U							
TRANS-1,2-DICHLOROETHENE	~~18~~ 5.0	U		~~3~~ 1.0	U							
TRANS-1,3-DICHLOROPROPENE	25 •	U		5 •	U							
TRICHLOROETHENE	~~25~~ 5.0	U		~~5~~ 1.0	U							
TRICHLOROFLUOROMETHANE	20 •	U		4 •	U							
VINYL CHLORIDE	~~35~~ 5.0	U		~~6~~ 1.0	U							
1,3-Dichloropropene	5.0	U		1.0	U							
Methyl tert-butyl ether	50	U		10	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	MW-9											
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,2,4-TRICHLOROBENZENE	100	U		10	U		100	U		10	U	
1,2-DICHLOROBENZENE	100	U		10	U		100	U		10	U	
1,3-DICHLOROBENZENE	100	U		10	U		100	U		10	U	
1,4-DICHLOROBENZENE	100	U		10	U		100	U		10	U	
2,4,5-TRICHLOROPHENOL	500	U		50	U		500	U		50	U	
2,4,6-TRICHLOROPHENOL	100	U		10	U		100	U		10	U	
2,4-DICHLOROPHENOL	100	U		10	U		100	U		10	U	
2,4-DIMETHYLPHENOL	100	U		10	U		100	U		10	U	
2,4-DINITROPHENOL	500	U		50	U		500	U		50	U	
2,4-DINITROTOLUENE	100	U		10	U		100	U		10	U	
2,6-DINITROTOLUENE	100	U		10	U		100	U		10	U	
2-CHLORONAPHTHALENE	100	U		10	U		100	U		10	U	
2-CHLOROPHENOL	100	U		10	U		100	U		10	U	
2-METHYLNAPHTHALENE							100	U				
2-METHYLPHENOL				10	U		100	U		10	U	
2-NITROANILINE	500	U		50	U		500	U		50	U	
2-NITROPHENOL	100	U		10	U		100	U		10	U	
3&4-METHYLPHENOL				20	U		200	U		20	U	
3,3'-DICHLOROBENZIDINE	200	U		20	U		200	U		20	U	
3-NITROANILINE	500	U		50	U		500	U		50	U	
4,6-DINITRO-2-METHYLPHENOL	500	U		50	U		500	U		50	U	
4-BROMOPHENYL PHENYL ETHER	100	U		10	U		100	U		10	U	
4-CHLORO-3-METHYLPHENOL	200	U		20	U		200	U		20	U	
4-CHLOROANILINE	200	U		20	U		200	U		20	U	
4-CHLOROPHENYL PHENYL ETHER	100	U		10	U		100	U		10	U	
4-NITROANILINE	500	U		50	U		500	U		50	U	
4-NITROPHENOL	500	U		50	U		500	U		50	U	
ACENAPHTHENE	100	U					100	U				
ACENAPHTHYLENE	100	U		10	U		100	U		~~1~~ 10	U	
ANTHRACENE	100	U		10	U		100	U		~~1~~ ↓	U	
BENZIDINE	10 •	U		10	U		10 •	U		10	U	
BENZO(A)ANTHRACENE	100	U		10	U		100	U		~~1~~ 10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(A)PYRENE	100	U		10	U		100	U		~~1~~ 10	U	
BENZO(B)FLUORANTHENE	100	U		10	U		100	U		~~1~~	U	
BENZO(G,H,I)PERYLENE	100	U		10	U		100	U		~~1~~	U	
BENZO(K)FLUORANTHENE	100	U		10	U		100	U		~~1~~	U	
BENZOIC ACID	500	U		50	U		500	U		50	U	
BENZYL ALCOHOL	200	U		20	U		200	U		20	U	
BIS(2-CHLOROETHOXY)METHANE	100	U		10	U		100	U		10	U	
BIS(2-CHLOROETHYL)ETHER	100	U		10	U		100	U		10	U	
BIS(2-CHLOROISOPROPYL)ETHER	100	U		10	U		100	U		10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	100	U		10	U		100	U		10	U	
BUTYL BENZYL PHTHALATE	100	U		10	U		100	U		10	U	
CARBAZOLE	100	U		10	U		100	U		10	U	
CHRYSENE	100	U		10	U		100	U		~~1~~ 10	U	
DI-N-BUTYL PHTHALATE	100	U		10	U		100	U		10	U	
DI-N-OCTYL PHTHALATE	100	U		10	U		100	U		10	U	
DIBENZO(A,H)ANTHRACENE	100	U		10	U		100	U		~~1~~ 10	U	
DIBENZOFURAN	100	U		10	U		100	U		10	U	
DIETHYL PHTHALATE	100	U		10	U		100	U		10	U	
DIMETHYL PHTHALATE	100	U		10	U		100	U		10	U	
FLUORANTHENE	100	U		10	U		100	U		~~1~~ 10	U	
FLUORENE	100	U		10	U		100	U		~~8~~ 10	U	
HEXACHLOROBENZENE	100	U		10	U		100	U		10	U	
HEXACHLOROBUTADIENE	100	U		10	U		100	U		10	U	
HEXACHLOROCYCLOPENTADIENE	100	U		10	U		100	U		10	U	
HEXACHLOROETHANE	100	U		10	U		100	U		10	U	
INDENO(1,2,3-CD)PYRENE	100	U		10	U		100	U		~~1~~ 10	U	
ISOPHORONE	10	U		10	U		10 •	U		10	U	
N-NITROSO-DI-N-PROPYLAMINE	100	U		10	U		100	U		10	U	
N-NITROSODIMETHYLAMINE	10 •	U		10	U		10 •	U		10	U	
N-NITROSODIPHENYLAMINE	100	U		10	U		100	U		10	U	
NAPHTHALENE	[redacted]			10	U		100	U		[redacted]		
NITROBENZENE	100	U		10	U		100	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PENTACHLOROPHENOL	500	U		50	U		500	U		50	U	
PHENANTHRENE	100	U		[redacted]			~~10~~ 100	U		~~0.2~~ 10	U	
PHENOL	100	U		10	U		100	U		10	U	
PYRENE	100	U		10	U		~~10~~ 100	U		~~0.5~~ 10	U	
1,2-Diphenylhydrazine (azobenzene)	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U		100	U		10	U		10	U	
1,2-DICHLOROBENZENE	10	U		100	U		10	U		10	U	
1,3-DICHLOROBENZENE	10	U		100	U		10	U		10	U	
1,4-DICHLOROBENZENE	10	U		100	U		10	U		10	U	
2,4,5-TRICHLOROPHENOL	50	U		500	U		50	U		50	U	
2,4,6-TRICHLOROPHENOL	10	U		100	U		10	U		10	U	
2,4-DICHLOROPHENOL	10	U		100	U		10	U		10	U	
2,4-DIMETHYLPHENOL				100	U		10	U				
2,4-DINITROPHENOL	50	U		500	U		50	U		50	U	
2,4-DINITROTOLUENE	10	U		100	U		10	U		10	U	
2,6-DINITROTOLUENE	10	U		100	U		10	U		10	U	
2-CHLORONAPHTHALENE	10	U		100	U		10	U		10	U	
2-CHLOROPHENOL	10	U		100	U		10	U		10	U	
2-METHYLNAPHTHALENE							~~1~~ 10	U				
2-METHYLPHENOL							10	U		10	U	
2-NITROANILINE	50	U		500	U		50	U		50	U	
2-NITROPHENOL	10	U		100	U		10	U		10	U	
3&4-METHYLPHENOL							20	U				
3,3'-DICHLOROBENZIDINE	20	U		200	U		20	U		20	U	
3-NITROANILINE	50	U		500	U		50	U		50	U	
4,6-DINITRO-2-METHYLPHENOL	50	U		500	U		50	U		50	U	
4-BROMOPHENYL PHENYL ETHER	10	U		100	U		10	U		10	U	
4-CHLORO-3-METHYLPHENOL	20	U		200	U		20	U		20	U	
4-CHLOROANILINE	20	U		200	U		20	U		20	U	
4-CHLOROPHENYL PHENYL ETHER	10	U		100	U		10	U		10	U	
4-NITROANILINE	50	U		500	U		50	U		50	U	
4-NITROPHENOL	50	U		500	U		50	U		50	U	
ACENAPHTHENE	10	U		100	U		~~1~~ 10	U		10	U	
ACENAPHTHYLENE	10	U		100	U		~~1~~ ↓	U		10	U	
ANTHRACENE	10	U		100	U		~~1~~ ↓	U		10	U	
BENZIDINE	10	U		10	U		10	U		10	U	
BENZO(A)ANTHRACENE	10	U		100	U		~~1~~ 10	U				

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(A)PYRENE	10	U		100	U		~~1~~ 10	U		10	U	
BENZO(B)FLUORANTHENE	10	U		100	U		~~1~~	U		10	U	
BENZO(G,H,I)PERYLENE	10	U		100	U		~~1~~	U		10	U	
BENZO(K)FLUORANTHENE	10	U		100	U		~~1~~	U		10	U	
BENZOIC ACID	50	U		500	U		50	U		50	U	
BENZYL ALCOHOL	20	U		200	U		20	U		20	U	
BIS(2-CHLOROETHOXY)METHANE	10	U		100	U		10	U		10	U	
BIS(2-CHLOROETHYL)ETHER	10	U		100	U		10	U		10	U	
BIS(2-CHLOROISOPROPYL)ETHER	10	U		100	U		10	U		10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U		100	U		10	U		10	U	
BUTYL BENZYL PHTHALATE	10	U		100	U		10	U				
CARBAZOLE	10	U		100	U		10	U		10	U	
CHRYSENE	10	U		100	U		~~1~~ 10	U				
DI-N-BUTYL PHTHALATE	10	U		100	U		10	U		10	U	
DI-N-OCTYL PHTHALATE	10	U		100	U		10	U		10	U	
DIBENZO(A,H)ANTHRACENE	10	U		100	U		~~1~~ 10	U		10	U	
DIBENZOFURAN	10	U		100	U		10	U		10	U	
DIETHYL PHTHALATE	10	U		100	U		10	U		10	U	
DIMETHYL PHTHALATE	10	U		100	U		10	U		10	U	
FLUORANTHENE	10	U		100	U		~~1~~ 10	U		10	U	
FLUORENE	10	U		100	U		~~1~~	U				
HEXACHLOROBENZENE	10	U		100	U		10	U		10	U	
HEXACHLOROBUTADIENE	10	U		100	U		10	U		10	U	
HEXACHLOROCYCLOPENTADIENE	10	U		100	U		10	U		10	U	
HEXACHLOROETHANE	10	U		100	U		10	U		10	U	
INDENO(1,2,3-CD)PYRENE	10	U		100	U		~~1~~ 10	U		10	U	
ISOPHORONE	10	U		10	U		10	U		10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U		100	U		10	U		10	U	
N-NITROSODIMETHYLAMINE	10	U		10	U		10	U		10	U	
N-NITROSODIPHENYLAMINE	10	U		100	U		10	U		10	U	
NAPHTHALENE							~~1~~ 10	U		10	U	
NITROBENZENE	10	U		100	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18	MW-21	MW-4	MW-7
SAMPLE DATE:	05/03/01	05/03/01	05/04/01	05/03/01
LABORATORY ID:	AC12909	AC12910	AC12914	AC12908
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

SEMIVOLATILES	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PENTACHLOROPHENOL	50	U		500	U		50	U		50	U	
PHENANTHRENE	10	U		100	U		~~1~~ 10	U		10	U	
PHENOL	10	U		[redacted]			10	U		10	U	
PYRENE	10	U		100	U		~~1~~ 10	U		10	U	
1,2-Diphenylhydrazine (azobene)	10	U		10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	100	U										
1,2-DICHLOROBENZENE	100	U										
1,3-DICHLOROBENZENE	100	U										
1,4-DICHLOROBENZENE	100	U										
2,4,5-TRICHLOROPHENOL	500	U										
2,4,6-TRICHLOROPHENOL	100	U										
2,4-DICHLOROPHENOL	100	U										
2,4-DIMETHYLPHENOL	100	U										
2,4-DINITROPHENOL	500	U										
2,4-DINITROTOLUENE	100	U										
2,6-DINITROTOLUENE	100	U										
2-CHLORONAPHTHALENE	100	U										
2-CHLOROPHENOL	100	U										
2-METHYLNAPHTHALENE	[redacted]											
2-METHYLPHENOL												
2-NITROANILINE	500	U										
2-NITROPHENOL	100	U										
3&4-METHYLPHENOL	[redacted]											
3,3'-DICHLOROBENZIDINE	200	U										
3-NITROANILINE	500	U										
4,6-DINITRO-2-METHYLPHENOL	500	U										
4-BROMOPHENYL PHENYL ETHER	100	U										
4-CHLORO-3-METHYLPHENOL	200	U										
4-CHLOROANILINE	200	U										
4-CHLOROPHENYL PHENYL ETHER	100	U										
4-NITROANILINE	500	U										
4-NITROPHENOL	500	U										
ACENAPHTHENE	100	U										
ACENAPHTHYLENE	100	U										
ANTHRACENE	100	U										
BENZIDINE	10 •	U										
BENZO(A)ANTHRACENE	100	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
BENZO(A)PYRENE	100	U										
BENZO(B)FLUORANTHENE	100	U										
BENZO(G,H,I)PERYLENE	100	U										
BENZO(K)FLUORANTHENE	100	U										
BENZOIC ACID	500	U										
BENZYL ALCOHOL	200	U										
BIS(2-CHLOROETHOXY)METHANE	100	U										
BIS(2-CHLOROETHYL)ETHER	100	U										
BIS(2-CHLOROISOPROPYL)ETHER	100	U										
BIS(2-ETHYLHEXYL)PHTHALATE	100	U										
BUTYL BENZYL PHTHALATE	100	U										
CARBAZOLE	100	U										
CHRYSENE	100	U										
DI-N-BUTYL PHTHALATE	100	U										
DI-N-OCTYL PHTHALATE	100	U										
DIBENZO(A,H)ANTHRACENE	100	U										
DIBENZOFURAN	100	U										
DIETHYL PHTHALATE	100	U										
DIMETHYL PHTHALATE	100	U										
FLUORANTHENE	100	U										
FLUORENE	100	U										
HEXACHLOROBENZENE	100	U										
HEXACHLOROBUTADIENE	100	U										
HEXACHLOROCYCLOPENTADIENE	100	U										
HEXACHLOROETHANE	100	U										
INDENO(1,2,3-CD)PYRENE	100	U										
ISOPHORONE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	100	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	100	U										
NAPHTHALENE	[redacted]											
NITROBENZENE	100	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PENTACHLOROPHENOL	500	U										
PHENANTHRENE	100	U										
PHENOL	100	U										
PYRENE	100	U										
1,2-Diphenylhydrazine (azobenzene)	10	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2	MW-1	MW-11	MW-14
SAMPLE DATE:	05/04/01	05/04/01	05/04/01	05/03/01
LABORATORY ID:	AC12913	AC12912	AC12915	AC12917
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	33 •			6.6 •			8.2 •			17 •		
	33,000			6,600			8,200			17,000		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18	MW-21	MW-4	MW-7
SAMPLE DATE:	05/03/01	05/03/01	05/04/01	05/03/01
LABORATORY ID:	AC12909	AC12910	AC12914	AC12908
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	36 •			39 •			10 •			8.5 •		
	36,000			39,000			10,000			8,500		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	30•											

30,000

TETRA TECH NUS INC. , Fax:4129214040

40-NAS PENSACOLA

R DATA

27799

: NUMBER:	DUP-2	MW-1	MW-11	MW-14
: DATE:	05/04/01	05/04/01	05/04/01	05/03/01
\TORY ID:	AC12913	AC12912	AC12915	AC12917
E:	NORMAL	NORMAL	NORMAL	NORMAL
S:	0.0 %	0.0 %	0.0 %	0.0 %
	MG/L	MG/L	MG/L	MG/L
UPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
NICS												
IC	0.0062	U		0.0052	U		0.0052	U		0.0052	U	
UM	0.00039	U		0.00039	U		0.00039	U		0.00039	U	
NUM	[redacted]			0.0012	U		[redacted]			[redacted]		
	0.0038	U		0.0041	JB U	A	0.0038	U		0.0038	U	

TETRA TECH NUS INC., Fax:4129214040

CTO140-NAS PENSACOLA

WATER DATA

AAL

SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.00039	U		0.00039	U		[redacted]			0.00039	U	
CHROMIUM	[redacted]			[redacted]			0.0012	U		[redacted]		
LEAD	~~0.01~~	~~UJ~~ U	A	~~0.01~~	~~UJ~~ U	A	0.0038	U		~~0.01~~	~~UJ~~ U	A
	0.0062			0.0087						0.0073		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9										
SAMPLE DATE:	05/04/01			//			//			//	
LABORATORY ID:	AC12911										
QC_TYPE:	NORMAL										
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %	
UNITS:	MG/L										
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0062	U										
CADMIUM	0.00039	U										
CHROMIUM	[redacted]											
LEAD	~~0.01~~ 0.0060	~~B~~ U	R									

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	[redacted]											
2-METHYLNAPHTHALENE	[redacted]											
ACENAPHTHENE	[redacted]											
ACENAPHTHYLENE	10	U		1	U		10	U		10 1.0	U	
ANTHRACENE	10	U		1	U		10	U		10	U	
BENZO(A)ANTHRACENE	10	U		1	U		10	U		10	U	
BENZO(A)PYRENE	10	U		1	U		10	U		10	U	
BENZO(B)FLUORANTHENE	10	U		1	U		10	U		10	U	
BENZO(G,H,I)PERYLENE	10	U		1	U		10	U		10	U	
BENZO(K)FLUORANTHENE	10	U		1	U		10	U		10	U	
CHRYSENE	10	U		1	U		10	U		10	U	
DIBENZO(A,H)ANTHRACENE	10	U		1	U		10	U		10	U	
FLUORANTHENE	10	U		1	U		10	U		10	U	
FLUORENE	[redacted]											
INDENO(1,2,3-CD)PYRENE	10	U		1	U		10	U		10 1.0	U	
NAPHTHALENE	[redacted]											
PHENANTHRENE							~~100~~ 10	U		[redacted]		
PYRENE	10	U		1	U		~~100~~ 10	U		[redacted]		

TETRA TECH NUS INC., Fax:4129214040 Jul 30 2001 15:37 P.02

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	[redacted]			[redacted]			1 LD	U		[redacted]		
2-METHYLNAPHTHALENE	[redacted]			[redacted]			10	U		[redacted]		
ACENAPHTHENE	[redacted]			[redacted]			10	U		[redacted]		
ACENAPHTHYLENE	1	U		10	U		10	U		1	U	
ANTHRACENE	1	U		10	U		10	U		1	U	
BENZO(A)ANTHRACENE	1	U		10	U		10	U		1	U	
BENZO(A)PYRENE	1	U		10	U		10	U		1	U	
BENZO(B)FLUORANTHENE	1	U		10	U		10	U		1	U	
BENZO(G,H,I)PERYLENE	1	U		10	U		10	U		1	U	
BENZO(K)FLUORANTHENE	1	U		10	U		10	U		1	U	
CHRYSENE	1	U		10	U		10	U		1	U	
DIBENZO(A,H)ANTHRACENE	1	U		10	U		10	U		1	U	
FLUORANTHENE	1	U		10	U		10	U		1	U	
FLUORENE	[redacted]			[redacted]			10	U		[redacted]		
INDENO(1,2,3-CD)PYRENE	1	U		10	U		10	U		1	U	
NAPHTHALENE	[redacted]			[redacted]			10	U		[redacted]		
PHENANTHRENE	[redacted]			[redacted]			10	U		[redacted]		
PYRENE	1	U		10	U		10	U		[redacted]		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27798

SAMPLE NUMBER:	MW-9			/ /			/ /			/ /		
SAMPLE DATE:	05/04/01											
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
POLYNUCLEAR AROMATIC HYDROCARBONS	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1-METHYLNAPHTHALENE	[redacted]											
2-METHYLNAPHTHALENE	[redacted]											
ACENAPHTHENE	[redacted]											
ACENAPHTHYLENE	10	U										
ANTHRACENE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
CHRYSENE	10	U										
DIBENZO(A,H)ANTHRACENE	10	U										
FLUORANTHENE	10	U										
FLUORENE	[redacted]											
INDENO(1,2,3-CD)PYRENE	10	U										
NAPHTHALENE	[redacted]											
PHENANTHRENE	[redacted]											
PYRENE	10	U										

27799

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-2	AC12913	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-1	AC12912	NORMAL	27799	EDB	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-11	AC12915	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-14	AC12917	NORMAL	27799	EDB	05/03/01	05/14/01	05/15/01	11	1	12
UG/L	MW-18	AC12909	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-21	AC12910	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-4	AC12914	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-7	AC12908	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-9	AC12911	NORMAL	27799	EDB	05/04/01	05/14/01	05/14/01	10	0	10
MG/L	DUP-2	AC12913	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
MG/L	MW-1	AC12912	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
MG/L	MW-11	AC12915	NORMAL	27799	M	05/04/01	05/14/01	05/17/01	10	3	13
MG/L	MW-14	AC12917	NORMAL	27799	M	05/03/01	05/14/01	05/17/01	11	3	14
MG/L	MW-18	AC12909	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-21	AC12910	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-4	AC12914	NORMAL	27799	M	05/04/01	05/14/01	05/17/01	10	3	13
MG/L	MW-7	AC12908	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-9	AC12911	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
UG/L	DUP-2	AC12913	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	MW-1	AC12912	NORMAL	27799	OS	05/04/01	05/09/01	05/15/01	5	6	11
UG/L	MW-11	AC12915	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	MW-14	AC12917	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-18	AC12909	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-21	AC12910	NORMAL	27799	OS	05/03/01	05/09/01	05/16/01	6	7	13
UG/L	MW-4	AC12914	NORMAL	27799	OS	05/04/01	05/09/01	05/15/01	5	6	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-7	AC12908	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-9	AC12911	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	DUP-2	AC12913	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-1	AC12912	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-11	AC12915	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-14	AC12917	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-18	AC12909	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-21	AC12910	NORMAL	27799	OV	05/03/01	05/16/01	05/16/01	13	0	13
UG/L	MW-4	AC12914	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-7	AC12908	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-9	AC12911	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	TRIP BLANK	AC12916	NORMAL	27799	OV	05/03/01	05/11/01	05/11/01	8	0	8
UG/L	DUP-2	AC12913	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-1	AC12912	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-11	AC12915	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-14	AC12917	NORMAL	27799	PAH	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-18	AC12909	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-21	AC12910	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-4	AC12914	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-7	AC12908	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-9	AC12911	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
MG/L	DUP-2	AC12913	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-1	AC12912	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-11	AC12915	NORMAL	27799	TPH	05/04/01	05/09/01	05/16/01	5	7	12
MG/L	MW-14	AC12917	NORMAL	27799	TPH	05/03/01	05/09/01	05/14/01	6	5	11
MG/L	MW-18	AC12909	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10
MG/L	MW-21	AC12910	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	MW-4	AC12914	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-7	AC12908	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10
MG/L	MW-9	AC12911	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9

resubmittal

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12908** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-7**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0012	J	0.050
Lead	0.0073	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	10		1.0
2-Methylnaphthalene	11		1.0
Acenaphthene	4.4		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	4.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	3.8		1.0
Phenanthrene	2.5		1.0
Pyrene	0.76	J	1.0

ANALYSIS; Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name Analytical Results Qualifier Reported Detection Limits

Petroleum Range Organics (PRO)	8.5		2.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	3.6	J	10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	13		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	6.9	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	2.4	J	10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	3.1	J	10
Carbazole	<RL		10
Chrysene	2.6	J	10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	4.8	J	10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Isophorone	<RL		10
Naphthalene	<RL		10
Nitrobenzene	<RL		10
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	1.1		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.2	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	0.55	J	1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	25		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	70		
Nitrobenzene-d5	(Range 37-104)	73		
p-Terphenyl-d14	(Range 15-132)	104		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
C(39)	(Range 42-193)	23	Z	
o-Terphenyl	(Range 82-142)	39	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4	(81-132)	92		
4-Bromofluorobenzene	(80-120)	97		
Toluene-d8	(80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	108		
2-Fluorobiphenyl	(Range 21-122)	82		
2-Fluorophenol	(Range 11-114)	41		
Nitrobenzene-d5	(Range 16-125)	86		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	106		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12909** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-18**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0027	J	0.050
Lead	0.0062	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	36		1.0
2-Methylnaphthalene	62		1.0
Acenaphthene	3.6		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	3.6		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	61		1.0
Phenanthrene	4.0		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	36		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	2.3	J	10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	66		10
2-Methylphenol	3.6	J	10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	7.8	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	64	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	0.68	J	1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	27		5
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.0	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	2.2		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	49		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	80		
Nitrobenzene-d5	(Range 37-104)	83		
p-Terphenyl-d14	(Range 15-132)	111		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	90		
4-Bromofluorobenzene (80-120)	93		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	3.8	Z	
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	4.4	Z	
Nitrobenzene-d5	(Range 16-125)	80		
Phenol-d6	(Range 9-109)	20		
p-Terphenyl-d14	(Range 5-157)	91		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12910** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-21**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0040	J	0.050
Lead	0.0087	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	73		10
2-Methylnaphthalene	120		10
Acenaphthene	6.1	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	8.3	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	110		10
Phenanthrene	7.2	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	120		100
2-Methylphenol	13	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	36	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		10
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100
Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Isophorone	<RL		10
Naphthalene	100		100
Nitrobenzene	<RL		100
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	11	J	100
Pyrene	<RL		100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		10
1,1,2,2-Tetrachloroethane	<RL		10
1,1,2-Trichloroethane	<RL		10
1,1-Dichloroethane	<RL		10
1,1-Dichloroethene	<RL		10
1,2-Dichloroethane	<RL		10
1,2-Dichloropropane	<RL		10
1,3-Dichloropropene	<RL		10
2-Chloroethylvinyl ether	<RL		100
Acrolein	<RL		100
Acrylonitrile	<RL		100
Benzene	<RL		10
Bromodichloromethane	<RL		10
Bromoform	<RL		10
Bromomethane	<RL		10
Carbon tetrachloride	<RL		10
Chlorobenzene	<RL		10
Chloroform	<RL		10
Chloromethane	<RL		10
Ethylbenzene	69		10
Methyl Bromide	<RL		10
Methyl Chloride	<RL		10
Methylene chloride	9.8		50
Methyl-tert-butyl ether (MTBE)	<RL		100
Tetrachloroethene	<RL		10
Toluene	<RL		10
trans-1,2-Dichloroethene	<RL		10
Trichloroethene	<RL		10
Vinyl chloride	<RL		10
Xylenes (Total)	320		20

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	80		
Nitrobenzene-d5	(Range 37-104)	97		
p-Terphenyl-d14	(Range 15-132)	96		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	102		
4-Bromofluorobenzene (80-120)	108		
Toluene-d8 (80-119)	105		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12911** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-9**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0029	J	0.050
Lead	0.0060	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	37		10
2-Methylnaphthalene	49		10
Acenaphthene	6.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	7.6	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	44		10
Phenanthrene	5.6	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	30		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	46	J	100
2-Methylphenol	12	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	83	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		10
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100
Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Isophorone	<RL		10
Naphthalene	44	J	100
Nitrobenzene	<RL		100
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	<RL		100
Pyrene	<RL		100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3-Dichloropropene	<RL		5.0
2-Chloroethylvinyl ether	<RL		50
Acrolein	<RL		50
Acrylonitrile	<RL		50
Benzene	4.1	J	5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		5.0
Carbon tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		5.0
Ethylbenzene	32		5.0
Methyl Bromide	<RL		5.0
Methyl Chloride	<RL		5.0
Methylene chloride	<RL		25
Methyl-tert-butyl ether (MTBE)	<RL		50
Tetrachloroethene	<RL		5.0
Toluene	5.0		5.0
trans-1,2-Dichloroethene	<RL		5.0
Trichloroethene	<RL		5.0
Vinyl chloride	<RL		5.0
Xylenes (Total)	120		10

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	73		
Nitrobenzene-d5	(Range 37-104)	87		
p-Terphenyl-d14	(Range 15-132)	107		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	88		
4-Bromofluorobenzene (80-120)	98		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12912** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0041	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	25		1.0
2-Methylnaphthalene	27		1.0
Acenaphthene	4.3		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	5.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	17		1.0
Phenanthrene	4.6		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	6.6		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	29		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	3.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Isophorone	<RL		10
Naphthalene	<RL		10
Nitrobenzene	<RL		10
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	4.8	J	10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	8.7		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.7		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	1.6	J	2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	68		
Nitrobenzene-d5	(Range 37-104)	68		
p-Terphenyl-d14	(Range 15-132)	90		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	29	Z	
o-Terphenyl (Range 82-142)	9.9	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	82		
2-Fluorobiphenyl	(Range 21-122)	66		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	71		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	77		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12913** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-2**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0028	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	38		10
2-Methylnaphthalene	49		10
Acenaphthene	6.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	7.2	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	46		10
Phenanthrene	5.2	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO) 33 10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	45	J	100
2-Methylphenol	12	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	87	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		10
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Client Sample ID: DUP-2 AALSample ID #: AC12913 Accura Project #: 27799

Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100
Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Isophorone	<RL		10
Naphthalene	48	J	100
Nitrobenzene	<RL		100
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	<RL		100
Pyrene	<RL		100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		5.0
1,1,2,2-Tetrachloroethane	<RL		5.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		5.0
1,1-Dichloroethene	<RL		5.0
1,2-Dichloroethane	<RL		5.0
1,2-Dichloropropane	<RL		5.0
1,3-Dichloropropene	<RL		5.0
2-Chloroethylvinyl ether	<RL		50
Acrolein	<RL		50
Acrylonitrile	<RL		50
Benzene	3.9	J	5.0
Bromodichloromethane	<RL		5.0
Bromoform	<RL		5.0
Bromomethane	<RL		5.0
Carbon tetrachloride	<RL		5.0
Chlorobenzene	<RL		5.0
Chloroform	<RL		5.0
Chloromethane	<RL		5.0
Ethylbenzene	32		5.0
Methyl Bromide	<RL		5.0
Methyl Chloride	<RL		5.0
Methylene chloride	<RL		25
Methyl-tert-butyl ether (MTBE)	<RL		50
Tetrachloroethene	<RL		5.0
Toluene	5.3		5.0
trans-1,2-Dichloroethene	<RL		5.0
Trichloroethene	<RL		5.0
Vinyl chloride	<RL		5.0
Xylenes (Total)	120		10

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	79		
Nitrobenzene-d5	(Range 37-104)	92		
p-Terphenyl-d14	(Range 15-132)	116		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	85		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12914** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-4**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	0.0014	J	0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	10		5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	68		
p-Terphenyl-d14	(Range 15-132)	95		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	23	Z	
o-Terphenyl (Range 82-142)	89		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	90		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	105		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	17	Z	
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	7.0	Z	
Nitrobenzene-d5	(Range 16-125)	72		
Phenol-d6	(Range 9-109)	18		
p-Terphenyl-d14	(Range 5-157)	103		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12915** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-11**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0017	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	6.7	J	10
2-Methylnaphthalene	<RL		10
Acenaphthene	4.7	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	3.1	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	7.7	J	10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO) 8.2 5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		10
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL	100
Di-n-octylphthalate	<RL	100
Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Isophorone	<RL	10
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	6.8		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.1		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	1.9		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	52		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	89		
Nitrobenzene-d5	(Range 37-104)	87		
p-Terphenyl-d14	(Range 15-132)	106		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	8.2	Z	
o-Terphenyl (Range 82-142)	120		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12916** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **TRIP BLANK**

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	0.57	J	1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	1.9	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	107		
4-Bromofluorobenzene (80-120)	105		

Toluene-d8 (80-119)	105

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved
LABORATORY REPORT

Accura Sample ID #: **AC12917** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/3/01
Client Contact: WALKER, GERRY Date Received: 5/5/01
Client Project Number: NO547/CTO 140 Date Reported: 7/13/01
Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER
Client Sample ID: **MW-14**

ANALYSIS: EDB Method Ref: 504.1
Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0013	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C
Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	50		1.0
2-Methylnaphthalene	69		1.0
Acenaphthene	6.5		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	8.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	49		1.0
Phenanthrene	6.2		1.0
Pyrene	0.30	J	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	17		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	71		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	5.7	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	47	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	14		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	0.73	J	2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	76		
Nitrobenzene-d5	(Range 37-104)	85		
p-Terphenyl-d14	(Range 15-132)	115		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	85		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	98		
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	48		
Nitrobenzene-d5	(Range 16-125)	83		
Phenol-d6	(Range 9-109)	34		
p-Terphenyl-d14	(Range 5-157)	93		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12918** **Accura Project #:** **27799**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0052	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.49	J	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: METHOD BLANK AALSample ID #: AC12918 Accura Project #: 27799

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X Base Neutral OC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 27-121)	61		
Nitrobenzene-d5	(Range 24-114)	63		
p-Terphenyl-d14	(Range 28-139)	89		

ANALYSIS: X PRO OC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	19	Z	
o-Terphenyl (Range 82-142)	89		

ANALYSIS: X VOC OC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	94		
4-Bromofluorobenzene (81-118)	103		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC OC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 25-127)	72		
2-Fluorobiphenyl	(Range 27-121)	59		
2-Fluorophenol	(Range 24-101)	44		
Nitrobenzene-d5	(Range 24-114)	62		
Phenol-d6	(Range 26-104)	31		
p-Terphenyl-d14	(Range 28-139)	94		

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

29911

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NUS
Address: 1401 Oven Park Dr. Tallahassee, FL 32312
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola Building 1932
Project Number: CTO 140 - No 547

Billing address:
Client P.O. #

Laboratory Use Only
Page 1 of 1
Temp. Rec'd: ABC/2°C
Date Received: 5/7/99

Samplers: (signature) Dan Hartnett
Samplers: (printed) Dan Hartnett, Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	Pb-cr-cd-As	SVOC	PAH's	FL-PRO				Remarks	Accura Sample ID No. ABL-5701
MW-7	5/3/01 0930		X	W	✓	Bldg 1932	12	3	2	1	2	2	2				Warm	12908
MW-18	5/3/01 1100		X	W	✓	" "	12	3	2	1	2	2	2				HOT! (sheen)	12909
MW-21	5/3/01 1815		X	W	✓	" "	12	3	2	1	2	2	2				HOT!	12910
MW-9 (DUP)	5/4/01 1020		X	W	✓	" "	12	3	2	1	2	2	2				hot (moderate)	12911
MW-1	5/4/01 1100		X	W	✓	" "	12	3	2	1	2	2	2					12912
DUP-2	5/4/01		X	W	✓	" "	12	3	2	1	2	2	2					12913
MW-4	5/4/01 1530		X	W	✓	" "	12	3	2	1	2	2	2				Warm	12914
MW-~~14~~11	5/4/01 ~~1630~~ 1815		X	W	✓	" "	12	3	2	1	2	2	2					12915
Trip Blank								2										12916
MW-~~240~~14	5/3/01 1630						12	3	2	1	2	2	2					12917

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/4/01 1830	Fedex →	5/4/01	
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
Fedex →	5/5/01 10:30	[illegible]	5/5/01 10:30	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

original submittal - not used except for additional VOCs

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1,2-TETRACHLOROETHANE	0.41	U		0.41	U		0.41	U		0.41	U	
1,1,1-TRICHLOROETHANE	0.56	U		0.56	U		0.56	U		0.56	U	
1,1,2,2-TETRACHLOROETHANE	0.42	U		0.42	U		0.42	U		0.42	U	
1,1,2-TRICHLOROETHANE	0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROETHANE	0.55	U		0.55	U		0.55	U		0.55	U	
1,1-DICHLOROETHENE	0.61	U		0.61	U		0.61	U		0.61	U	
1,2,3-TRICHLOROBENZENE	0.4	U		0.4	U		0.4	U		0.4	U	
1,2,3-TRICHLOROPROPANE	0.86	U		0.86	U		0.86	U		0.86	U	
1,2,4-TRICHLOROBENZENE	0.45	U		0.45	U		0.45	U		0.45	U	
1,2,4-TRIMETHYLBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.37	U		0.37	U		0.37	U		0.37	U	
1,2-DIBROMOETHANE	0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DICHLOROBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DICHLOROETHANE	0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DICHLOROPROPANE	0.54	U		0.54	U		0.54	U		0.54	U	
1,3,5-TRIMETHYLBENZENE	38			2.5			17			0.65	J	P
1,3-DICHLOROBENZENE	0.46	U		0.46	U		0.46	U		0.46	U	
1,3-DICHLOROPROPANE	0.42	U		0.42	U		0.42	U		0.42	U	
1,4-DICHLOROBENZENE	0.58	U		0.58	U		0.58	U		0.58	U	
2,2-DICHLOROPROPANE	0.53	U		0.53	U		0.53	U		0.53	U	
2-CHLOROTOLUENE	0.55	U		0.55	U		0.55	U		0.55	U	
4-CHLOROTOLUENE	0.52	U		0.52	U		0.52	U		0.52	U	
4-ISOPROPYLTOLUENE	3	J	P	1.6	J	P	1.1	J	P	2.6	J	P
BENZENE	3.9	J	P	0.53	U		0.53	U		0.53	U	
BROMOBENZENE	0.52	U		0.52	U		0.52	U		0.52	U	
BROMOCHLOROMETHANE	0.59	U		0.59	U		0.59	U		0.59	U	
BROMODICHLOROMETHANE	0.49	U		0.49	U		0.49	U		0.49	U	
BROMOFORM	0.3	U		0.3	U		0.3	U		0.3	U	
BROMOMETHANE	0.46	U		0.46	U		0.46	U		0.46	U	
CARBON TETRACHLORIDE	1.3	U		1.3	U		1.3	U		1.3	U	
CHLOROBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
CHLORODIBROMOMETHANE	0.37	U		0.37	U		0.37	U		0.37	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	0.34	U		0.34	U		0.34	U		0.34	U	
CHLOROFORM	0.53	U		0.53	U		0.53	U		0.53	U	
CHLOROMETHANE	0.45	U		0.45	U		0.45	U		0.45	U	
CIS-1,2-DICHLOROETHENE	0.55	U		0.55	U		0.55	U		0.55	U	
DIBROMOMETHANE	0.51	U		0.51	U		0.51	U		0.51	U	
DICHLORODIFLUOROMETHANE	0.51	U		0.51	U		0.51	U		0.51	U	
ETHYLBENZENE	32			8.7			6.8			14		
HEXACHLOROBUTADIENE	0.6	U		0.6	U		0.6	U		0.6	U	
ISOPROPYLBENZENE	4.2	J	P	2.8			0.64	J	P	4.9		
METHYLENE CHLORIDE	1.3	U		1.7			1.3	U		1.3	U	
N-BUTYLBENZENE	0.47	U		0.47	U		0.47	U		0.47	U	
N-PROPYLBENZENE	6.1	J	P	4.6			0.62	U		8.2		
NAPHTHALENE	120			34			25			99		
SEC-BUTYLBENZENE	0.53	U		1.9	J	P	0.53	U		3.3	J	P
STYRENE	0.44	U		0.44	U		0.44	U		0.44	U	
TERT-BUTYLBENZENE	0.48	U		0.48	U		0.48	U		0.7	J	P
TETRACHLOROETHENE	0.49	U		0.49	U		0.49	U		0.49	U	
TOLUENE	5.3	J	P	0.52	U		1.9	J	P	0.52	U	
TOTAL XYLENES	120			1.6	J	P	52			0.95	U	
TRANS-1,2-DICHLOROETHENE	0.58	U		0.58	U		0.58	U		0.58	U	
TRANS-1,3-DICHLOROPROPENE	0.43	U		0.43	U		0.43	U		0.43	U	
TRICHLOROETHENE	0.53	U		0.53	U		0.53	U		0.53	U	
TRICHLOROFLUOROMETHANE	0.55	U		0.55	U		0.55	U		0.55	U	
VINYL CHLORIDE	0.56	U		0.56	U		0.56	U		0.56	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1,2-TETRACHLOROETHANE	0.41	U		0.41	U		0.41	U		0.41	U	
1,1,1-TRICHLOROETHANE	0.56	U		0.56	U		0.56	U		0.56	U	
1,1,2,2-TETRACHLOROETHANE	0.42	U		0.42	U		0.42	U		0.42	U	
1,1,2-TRICHLOROETHANE	0.49	U		0.49	U		0.49	U		0.49	U	
1,1-DICHLOROETHANE	0.55	U		0.55	U		0.55	U		0.55	U	
1,1-DICHLOROETHENE	0.61	U		0.61	U		0.61	U		0.61	U	
1,2,3-TRICHLOROBENZENE	0.4	U		0.4	U		0.4	U		0.4	U	
1,2,3-TRICHLOROPROPANE	0.86	U		0.86	U		0.86	U		0.86	U	
1,2,4-TRICHLOROBENZENE	0.45	U		0.45	U		0.45	U		0.45	U	
1,2,4-TRIMETHYLBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.37	U		0.37	U		0.37	U		0.37	U	
1,2-DIBROMOETHANE	0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DICHLOROBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
1,2-DICHLOROETHANE	0.52	U		0.52	U		0.52	U		0.52	U	
1,2-DICHLOROPROPANE	0.54	U		0.54	U		0.54	U		0.54	U	
1,3,5-TRIMETHYLBENZENE	22			70			0.6	U		28		
1,3-DICHLOROBENZENE	0.46	U		0.46	U		0.46	U		0.46	U	
1,3-DICHLOROPROPANE	0.42	U		0.42	U		0.42	U		0.42	U	
1,4-DICHLOROBENZENE	0.58	U		0.58	U		0.58	U		0.58	U	
2,2-DICHLOROPROPANE	0.53	U		0.53	U		0.53	U		0.53	U	
2-CHLOROTOLUENE	0.55	U		0.55	U		0.55	U		0.55	U	
4-CHLOROTOLUENE	0.52	U		0.52	U		0.52	U		0.52	U	
4-ISOPROPYLTOLUENE	2.2	J	P	5.3	J	P	0.51	U		1.3	J	P
BENZENE	0.68	J	P	0.53	U		0.53	U		0.53	U	
BROMOBENZENE	0.52	U		0.52	U		0.52	U		0.52	U	
BROMOCHLOROMETHANE	0.59	U		0.59	U		0.59	U		0.59	U	
BROMODICHLOROMETHANE	0.49	U		0.49	U		0.49	U		0.49	U	
BROMOFORM	0.3	U		0.3	U		0.3	U		0.3	U	
BROMOMETHANE	0.46	U		0.46	U		0.46	U		0.46	U	
CARBON TETRACHLORIDE	1.3	U		1.3	U		1.3	U		1.3	U	
CHLOROBENZENE	0.54	U		0.54	U		0.54	U		0.54	U	
CHLORODIBROMOMETHANE	0.37	U		0.37	U		0.37	U		0.37	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
CHLOROETHANE	0.34	U		0.34	U		0.34	U		0.34	U	
CHLOROFORM	0.53	U		0.53	U		0.53	U		0.53	U	
CHLOROMETHANE	0.45	U		0.45	U		0.45	U		0.45	U	
CIS-1,2-DICHLOROETHENE	0.55	U		0.55	U		0.55	U		0.55	U	
DIBROMOMETHANE	0.51	U		0.51	U		0.51	U		0.51	U	
DICHLORODIFLUOROMETHANE	0.51	U		0.51	U		0.51	U		0.51	U	
ETHYLBENZENE	26			69			0.52	U		1.1	J	P
HEXACHLOROBUTADIENE	0.6	U		0.6	U		0.6	U		0.6	U	
ISOPROPYLBENZENE	0.49	U		9.5	J	P	0.49	U		0.49	U	
METHYLENE CHLORIDE	1.3	U		9.8	J	P	1.3	U		1.3	U	
N-BUTYLBENZENE	0.47	U		0.47	U		0.47	U		0.47	U	
N-PROPYLBENZENE	7.2			15			0.62	U		0.62	U	
NAPHTHALENE	110			220			2.2			12		
SEC-BUTYLBENZENE	1.4	J	P	0.53	U		0.53	U		0.53	U	
STYRENE	0.44	U		0.44	U		0.44	U		0.44	U	
TERT-BUTYLBENZENE	0.48	U		0.48	U		0.48	U		0.48	U	
TETRACHLOROETHENE	0.49	U		0.49	U		0.49	U		0.49	U	
TOLUENE	2.2	J	P	0.52	U		0.52	U		0.55	J	P
TOTAL XYLENES	49			320			0.95	U		25		
TRANS-1,2-DICHLOROETHENE	0.58	U		0.58	U		0.58	U		0.58	U	
TRANS-1,3-DICHLOROPROPENE	0.43	U		0.43	U		0.43	U		0.43	U	
TRICHLOROETHENE	0.53	U		0.53	U		0.53	U		0.53	U	
TRICHLOROFLUOROMETHANE	0.55	U		0.55	U		0.55	U		0.55	U	
VINYL CHLORIDE	0.56	U		0.56	U		0.56	U		0.56	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9			TB27799								
SAMPLE DATE:	05/04/01			05/03/01			/ /			/ /		
LABORATORY ID:	AC12911			AC12916								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1,2-TETRACHLOROETHANE	0.41	U		0.41	U							
1,1,1-TRICHLOROETHANE	0.56	U		0.56	U							
1,1,2,2-TETRACHLOROETHANE	0.42	U		0.42	U							
1,1,2-TRICHLOROETHANE	0.49	U		0.49	U							
1,1-DICHLOROETHANE	0.55	U		0.55	U							
1,1-DICHLOROETHENE	0.61	U		0.61	U							
1,2,3-TRICHLOROBENZENE	0.4	U		0.4	U							
1,2,3-TRICHLOROPROPANE	0.86	U		0.86	U							
1,2,4-TRICHLOROBENZENE	0.45	U		0.45	U							
1,2,4-TRIMETHYLBENZENE	0.54	U		0.54	U							
1,2-DIBROMO-3-CHLOROPROPANE	0.37	U		0.37	U							
1,2-DIBROMOETHANE	0.52	U		0.52	U							
1,2-DICHLOROBENZENE	0.54	U		0.54	U							
1,2-DICHLOROETHANE	0.52	U		0.52	U							
1,2-DICHLOROPROPANE	0.54	U		0.54	U							
1,3,5-TRIMETHYLBENZENE	36			0.6	U							
1,3-DICHLOROBENZENE	0.46	U		0.46	U							
1,3-DICHLOROPROPANE	0.42	U		0.42	U							
1,4-DICHLOROBENZENE	0.58	U		0.58	U							
2,2-DICHLOROPROPANE	0.53	U		0.53	U							
2-CHLOROTOLUENE	0.55	U		0.55	U							
4-CHLOROTOLUENE	0.52	U		0.52	U							
4-ISOPROPYLTOLUENE	2.8	J	P	0.51	U							
BENZENE	4.1	J	P	0.53	U							
BROMOBENZENE	0.52	U		0.52	U							
BROMOCHLOROMETHANE	0.59	U		0.59	U							
BROMODICHLOROMETHANE	0.49	U		0.49	U							
BROMOFORM	0.3	U		0.3	U							
BROMOMETHANE	0.46	U		0.46	U							
CARBON TETRACHLORIDE	1.3	U		1.3	U							
CHLOROBENZENE	0.54	U		0.57	J	P						
CHLORODIBROMOMETHANE	0.37	U		0.37	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9			TB27799								
SAMPLE DATE:	05/04/01			05/03/01			/ /			/ /		
LABORATORY ID:	AC12911			AC12916								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	0.34	U		0.34	U							
CHLOROFORM	0.53	U		0.53	U							
CHLOROMETHANE	0.45	U		0.45	U							
CIS-1,2-DICHLOROETHENE	0.55	U		0.55	U							
DIBROMOMETHANE	0.51	U		0.51	U							
DICHLORODIFLUOROMETHANE	0.51	U		0.51	U							
ETHYLBENZENE	32			0.52	U							
HEXACHLOROBUTADIENE	0.6	U		0.6	U							
ISOPROPYLBENZENE	4.2	J	P	0.49	U							
METHYLENE CHLORIDE	1.3	U		1.9								
N-BUTYLBENZENE	0.47	U		0.47	U							
N-PROPYLBENZENE	6.2	J	P	0.62	U							
NAPHTHALENE	120			0.57	U							
SEC-BUTYLBENZENE	0.53	U		0.53	U							
STYRENE	0.44	U		0.44	U							
TERT-BUTYLBENZENE	0.48	U		0.48	U							
TETRACHLOROETHENE	0.49	U		0.49	U							
TOLUENE	5	J	P	0.52	U							
TOTAL XYLENES	120			0.95	U							
TRANS-1,2-DICHLOROETHENE	0.58	U		0.58	U							
TRANS-1,3-DICHLOROPROPENE	0.43	U		0.43	U							
TRICHLOROETHENE	0.53	U		0.53	U							
TRICHLOROFLUOROMETHANE	0.55	U		0.55	U							
VINYL CHLORIDE	0.56	U		0.56	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	1.6	U		1.6	U		1.6	U		1.6	U	
1,2-DICHLOROBENZENE	1.9	U		1.9	U		1.9	U		1.9	U	
1,3-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
1,4-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
2,4,5-TRICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4,6-TRICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DIMETHYLPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DINITROPHENOL	10	U		10	U		10	U		10	U	
2,4-DINITROTOLUENE	2.4	U		2.4	U		2.4	U		2.4	U	
2,6-DINITROTOLUENE	1.3	U		1.3	U		1.3	U		1.3	U	
2-CHLORONAPHTHALENE	1.8	U		1.8	U		1.8	U		1.8	U	
2-CHLOROPHENOL	1.5	U		1.5	U		1.5	U		1.5	U	
2-METHYLNAPHTHALENE	45	J	P	29			1.8	U		69		
2-METHYLPHENOL	12	J	P	1.4	U		1.4	U		1.4	U	
2-NITROANILINE	1.6	U		1.6	U		1.6	U		1.6	U	
2-NITROPHENOL	1.8	U		1.8	U		1.8	U		1.8	U	
3&4-METHYLPHENOL	87	J	P	1.5	U		1.5	U		1.5	U	
3,3'-DICHLOROBENZIDINE	1	U		1	U		1	U		1	U	
3-NITROANILINE	3	U		3	U		3	U		3	U	
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U		1.9	U		1.9	U	
4-BROMOPHENYL PHENYL ETHER	1.2	U		1.2	U		1.2	U		1.2	U	
4-CHLORO-3-METHYLPHENOL	1.3	U		1.3	U		1.3	U		1.3	U	
4-CHLOROANILINE	3.5	U		3.5	U		3.5	U		3.5	U	
4-CHLOROPHENYL PHENYL ETHER	1.1	U		1.1	U		1.1	U		1.1	U	
4-NITROANILINE	3.8	U		3.8	U		3.8	U		3.8	U	
4-NITROPHENOL	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHENE	1.2	U		3.6	J	P	1.2	U		6.5		
ACENAPHTHYLENE	1.4	U		1.4	U		1.4	U		0.2	U	
ANTHRACENE	1	U		1	U		1	U		0.11	U	
BENZO(A)ANTHRACENE	0.48	U		0.48	U		0.48	U		0.17	U	
BENZO(A)PYRENE	0.79	U		0.79	U		0.79	U		0.21	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	1	U		1	U		1	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.75	U		0.75	U		0.75	U		0.31	U	
BENZO(K)FLUORANTHENE	1.4	U		1.4	U		1.4	U		0.29	U	
BENZOIC ACID	50	U		50	U		50	U		50	U	
BENZYL ALCOHOL	1.9	U		1.9	U		1.9	U		1.9	U	
BIS(2-CHLOROETHOXY)METHANE	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.67	U		0.16	U	
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U		1.8	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U		0.78	U		0.18	U	
DIBENZOFURAN	1.2	U		1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		0.94	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		1.6	U		0.2	U	
FLUORENE	1.5	U		1.5	U		1.5	U		8		
HEXACHLOROBENZENE	0.95	U		0.95	U		0.95	U		0.95	U	
HEXACHLOROBUTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		1.7	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		0.75	U		0.25	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		1.4	U		1.4	U	
N-NITROSODIPHENYLAMINE	1	U		1	U		1	U		1	U	
NAPHTHALENE	48	J	P	1.9	U		1.9	U		49		
NITROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
PENTACHLOROPHENOL	1.8	U		1.8	U		1.8	U		1.8	U	
PHENANTHRENE	0.86	U		4.8	J	P	0.26	U		6.2		
PHENOL	1.5	U		1.5	U		1.5	U		1.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PYRENE	1	U		1	U		0.28	U		0.3	J	P

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,2,4-TRICHLOROBENZENE	1.6	U		1.6	U		1.6	U		1.6	U	
1,2-DICHLOROBENZENE	1.9	U		1.9	U		1.9	U		1.9	U	
1,3-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
1,4-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
2,4,5-TRICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4,6-TRICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DIMETHYLPHENOL	2.3	J	P	1.6	U		1.6	U		3.6	J	P
2,4-DINITROPHENOL	10	U		10	U		10	U		10	U	
2,4-DINITROTOLUENE	2.4	U		2.4	U		2.4	U		2.4	U	
2,6-DINITROTOLUENE	1.3	U		1.3	U		1.3	U		1.3	U	
2-CHLORONAPHTHALENE	1.8	U		1.8	U		1.8	U		1.8	U	
2-CHLOROPHENOL	1.5	U		1.5	U		1.5	U		1.5	U	
2-METHYLNAPHTHALENE	66			120			0.3	U		13		
2-METHYLPHENOL	3.6	J	P	13	J	P	1.4	U		1.4	U	
2-NITROANILINE	1.6	U		1.6	U		1.6	U		1.6	U	
2-NITROPHENOL	1.8	U		1.8	U		1.8	U		1.8	U	
3&4-METHYLPHENOL	7.8	J	P	36	J	P	1.5	U		6.9	J	P
3,3'-DICHLOROBENZIDINE	1	U		1	U		1	U		1	U	
3-NITROANILINE	3	U		3	U		3	U		3	U	
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U		1.9	U		1.9	U	
4-BROMOPHENYL PHENYL ETHER	1.2	U		1.2	U		1.2	U		1.2	U	
4-CHLORO-3-METHYLPHENOL	1.3	U		1.3	U		1.3	U		1.3	U	
4-CHLOROANILINE	3.5	U		3.5	U		3.5	U		3.5	U	
4-CHLOROPHENYL PHENYL ETHER	1.1	U		1.1	U		1.1	U		1.1	U	
4-NITROANILINE	3.8	U		3.8	U		3.8	U		3.8	U	
4-NITROPHENOL	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHENE	1.2	U		1.2	U		0.29	U		1.2	U	
ACENAPHTHYLENE	1.4	U		1.4	U		0.2	U		1.4	U	
ANTHRACENE	1	U		1	U		0.11	U		1	U	
BENZO(A)ANTHRACENE	0.48	U		0.48	U		0.17	U		2.4	J	P
BENZO(A)PYRENE	0.79	U		0.79	U		0.21	U		0.79	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
BENZO(B)FLUORANTHENE	1	U		1	U		0.14	U		1	U	
BENZO(G,H,I)PERYLENE	0.75	U		0.75	U		0.31	U		0.75	U	
BENZO(K)FLUORANTHENE	1.4	U		1.4	U		0.29	U		1.4	U	
BENZOIC ACID	50	U		50	U		50	U		50	U	
BENZYL ALCOHOL	1.9	U		1.9	U		1.9	U		1.9	U	
BIS(2-CHLOROETHOXY)METHANE	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		3.1	J	P
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.16	U		2.6	J	P
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U		1.8	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U		0.18	U		0.78	U	
DIBENZOFURAN	1.2	U		1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		0.94	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		0.2	U		1.6	U	
FLUORENE	1.5	U		1.5	U		0.27	U		4.8	J	P
HEXACHLOROBENZENE	0.95	U		0.95	U		0.95	U		0.95	U	
HEXACHLOROBUTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		1.7	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		0.25	U		0.75	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		1.4	U		1.4	U	
N-NITROSODIPHENYLAMINE	1	U		1	U		1	U		1	U	
NAPHTHALENE	64			100			0.3	U		1.9	U	
NITROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
PENTACHLOROPHENOL	1.8	U		1.8	U		1.8	U		1.8	U	
PHENANTHRENE	0.86	U		0.86	U		0.26	U		0.86	U	
PHENOL	1.5	U		11	J	P	1.5	U		1.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PYRENE	1	U		1	U		0.28	U		1	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	1.6	U										
1,2-DICHLOROBENZENE	1.9	U										
1,3-DICHLOROBENZENE	1.7	U										
1,4-DICHLOROBENZENE	1.7	U										
2,4,5-TRICHLOROPHENOL	1.6	U										
2,4,6-TRICHLOROPHENOL	1.6	U										
2,4-DICHLOROPHENOL	1.6	U										
2,4-DIMETHYLPHENOL	1.6	U										
2,4-DINITROPHENOL	10	U										
2,4-DINITROTOLUENE	2.4	U										
2,6-DINITROTOLUENE	1.3	U										
2-CHLORONAPHTHALENE	1.8	U										
2-CHLOROPHENOL	1.5	U										
2-METHYLNAPHTHALENE	46	J	P									
2-METHYLPHENOL	12	J	P									
2-NITROANILINE	1.6	U										
2-NITROPHENOL	1.8	U										
3&4-METHYLPHENOL	83	J	P									
3,3'-DICHLOROBENZIDINE	1	U										
3-NITROANILINE	3	U										
4,6-DINITRO-2-METHYLPHENOL	1.9	U										
4-BROMOPHENYL PHENYL ETHER	1.2	U										
4-CHLORO-3-METHYLPHENOL	1.3	U										
4-CHLOROANILINE	3.5	U										
4-CHLOROPHENYL PHENYL ETHER	1.1	U										
4-NITROANILINE	3.8	U										
4-NITROPHENOL	4.4	U										
ACENAPHTHENE	1.2	U										
ACENAPHTHYLENE	1.4	U										
ANTHRACENE	1	U										
BENZO(A)ANTHRACENE	0.48	U										
BENZO(A)PYRENE	0.79	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	1	U										
BENZO(G,H,I)PERYLENE	0.75	U										
BENZO(K)FLUORANTHENE	1.4	U										
BENZOIC ACID	50	U										
BENZYL ALCOHOL	1.9	U										
BIS(2-CHLOROETHOXY)METHANE	1.4	U										
BIS(2-CHLOROETHYL)ETHER	1.4	U										
BIS(2-CHLOROISOPROPYL)ETHER	1	U										
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U										
BUTYL BENZYL PHTHALATE	1.2	U										
CARBAZOLE	1.9	U										
CHRYSENE	0.67	U										
DI-N-BUTYL PHTHALATE	0.68	U										
DI-N-OCTYL PHTHALATE	1.8	U										
DIBENZO(A,H)ANTHRACENE	0.78	U										
DIBENZOFURAN	1.2	U										
DIETHYL PHTHALATE	1.2	U										
DIMETHYL PHTHALATE	0.94	U										
FLUORANTHENE	1.6	U										
FLUORENE	1.5	U										
HEXACHLOROBENZENE	0.95	U										
HEXACHLOROBUTADIENE	0.86	U										
HEXACHLOROCYCLOPENTADIENE	0.86	U										
HEXACHLOROETHANE	1.7	U										
INDENO(1,2,3-CD)PYRENE	0.75	U										
N-NITROSO-DI-N-PROPYLAMINE	1.4	U										
N-NITROSODIPHENYLAMINE	1	U										
NAPHTHALENE	44	J	P									
NITROBENZENE	1.5	U										
PENTACHLOROPHENOL	1.8	U										
PHENANTHRENE	0.86	U										
PHENOL	1.5	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PYRENE	1	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	33			6.6			8.2			17		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	36			39			10			8.5		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	30											

27799

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-2	AC12913	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-1	AC12912	NORMAL	27799	EDB	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-11	AC12915	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-14	AC12917	NORMAL	27799	EDB	05/03/01	05/14/01	05/15/01	11	1	12
UG/L	MW-18	AC12909	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-21	AC12910	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-4	AC12914	NORMAL	27799	EDB	05/04/01	05/14/01	05/15/01	10	1	11
UG/L	MW-7	AC12908	NORMAL	27799	EDB	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-9	AC12911	NORMAL	27799	EDB	05/04/01	05/14/01	05/14/01	10	0	10
MG/L	DUP-2	AC12913	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
MG/L	MW-1	AC12912	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
MG/L	MW-11	AC12915	NORMAL	27799	M	05/04/01	05/14/01	05/17/01	10	3	13
MG/L	MW-14	AC12917	NORMAL	27799	M	05/03/01	05/14/01	05/17/01	11	3	14
MG/L	MW-18	AC12909	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-21	AC12910	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-4	AC12914	NORMAL	27799	M	05/04/01	05/14/01	05/17/01	10	3	13
MG/L	MW-7	AC12908	NORMAL	27799	M	05/03/01	05/14/01	05/16/01	11	2	13
MG/L	MW-9	AC12911	NORMAL	27799	M	05/04/01	05/14/01	05/16/01	10	2	12
UG/L	DUP-2	AC12913	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	MW-1	AC12912	NORMAL	27799	OS	05/04/01	05/09/01	05/15/01	5	6	11
UG/L	MW-11	AC12915	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	MW-14	AC12917	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-18	AC12909	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-21	AC12910	NORMAL	27799	OS	05/03/01	05/09/01	05/16/01	6	7	13
UG/L	MW-4	AC12914	NORMAL	27799	OS	05/04/01	05/09/01	05/15/01	5	6	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-7	AC12908	NORMAL	27799	OS	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-9	AC12911	NORMAL	27799	OS	05/04/01	05/09/01	05/16/01	5	7	12
UG/L	DUP-2	AC12913	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-1	AC12912	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-11	AC12915	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-14	AC12917	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-18	AC12909	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-21	AC12910	NORMAL	27799	OV	05/03/01	05/16/01	05/16/01	13	0	13
UG/L	MW-4	AC12914	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	MW-7	AC12908	NORMAL	27799	OV	05/03/01	05/14/01	05/14/01	11	0	11
UG/L	MW-9	AC12911	NORMAL	27799	OV	05/04/01	05/14/01	05/14/01	10	0	10
UG/L	TRIP BLANK	AC12916	NORMAL	27799	OV	05/03/01	05/11/01	05/11/01	8	0	8
UG/L	DUP-2	AC12913	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-1	AC12912	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-11	AC12915	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-14	AC12917	NORMAL	27799	PAH	05/03/01	05/09/01	05/15/01	6	6	12
UG/L	MW-18	AC12909	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-21	AC12910	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-4	AC12914	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
UG/L	MW-7	AC12908	NORMAL	27799	PAH	05/03/01	05/09/01	05/20/01	6	11	17
UG/L	MW-9	AC12911	NORMAL	27799	PAH	05/04/01	05/09/01	05/20/01	5	11	16
MG/L	DUP-2	AC12913	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-1	AC12912	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-11	AC12915	NORMAL	27799	TPH	05/04/01	05/09/01	05/16/01	5	7	12
MG/L	MW-14	AC12917	NORMAL	27799	TPH	05/03/01	05/09/01	05/14/01	6	5	11
MG/L	MW-18	AC12909	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10
MG/L	MW-21	AC12910	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	MW-4	AC12914	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9
MG/L	MW-7	AC12906	NORMAL	27799	TPH	05/03/01	05/09/01	05/13/01	6	4	10
MG/L	MW-9	AC12911	NORMAL	27799	TPH	05/04/01	05/09/01	05/13/01	5	4	9

DATA VALIDATION TRACKING FORM

Site Name : NAS Pensacola

Region: 4

Proj Manager: Walker, G.

CTO: 140

Charge No.: 0547

Validation:

Validator: S. Smith

☐ **Full**

QA:

☐ **Limited**

☒ **Cursory**

☐

Sample Delivery Group: 27799

Fraction:

		AQUEOUS	SOLID
☒	**METALS**	9	
☐	**MISC**		
☐	**OTHER**		

Date Assigned: 6/21/01
Due Date:
Date Valid Complete:
Date QA Complete:

LOE Allotted: _____hrs
LOE Expended:
Validation _____hrs
Corrections _____hrs
QA _____hrs

Total LOE Expended _____hrs

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	DUP-2			MW-1			MW-11			MW-14		
SAMPLE DATE:	05/04/01			05/04/01			05/04/01			05/03/01		
LABORATORY ID:	AC12913			AC12912			AC12915			AC12917		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.00039	U		0.00039	U		0.00039	U		0.00039	U	
CHROMIUM	0	J	P	0.0012	U		0	J	P	0	J	P
LEAD	0.0038	U		0	JB		0.0038	U		0.0038	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-18			MW-21			MW-4			MW-7		
SAMPLE DATE:	05/03/01			05/03/01			05/04/01			05/03/01		
LABORATORY ID:	AC12909			AC12910			AC12914			AC12908		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
INORGANICS	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.00039	U		0.00039	U		0	J	P	0.00039	U	
CHROMIUM	0	J	P	0	J	P	0.0012	U		0	J	P
LEAD	0.01	JB		0.01	JB		0.0038	U		0.01	JB	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27799

SAMPLE NUMBER:	MW-9											
SAMPLE DATE:	05/04/01			/ /			/ /			/ /		
LABORATORY ID:	AC12911											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U										
CADMIUM	0.00039	U										
CHROMIUM	0	J	P									
LEAD	0.01	JB										

-ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27799
Client Project: NAS Pensacola, Bldg. 1932 / N0547/CTO 140
CTO Manager: Gerry Walker

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 05/05/01 at 1030:

Client I.D.	Laboratory I.D.
MW-7	AC12908
MW-18	AC12909
MW-21	AC12910
MW-9	AC12911
MW-1	AC12912
DUP-2	AC12913
MW-4	AC12914
MW-11	AC12915
Trip Blank	AC12916
MW-14	AC12917

2. The sample cooler temperature was noted to be 2^0C upon receipt.

3. The "J" values noted for the PAH's-Low Level, FLA-PRO, Metals, SVOC, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

4. The "B" values noted for the Metals analysis indicate that the compounds were detected in the samples and in the blank, and the results should be considered estimated due to blank contamination.

5. The pH of the samples was 1.0 for the VOC analysis.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

6. The following samples required dilution due to high analyte concentration and/or matrix interference, resulting in elevated detection limits:

FLA-PRO	VOC – SW-846-8260B
MW-7	MW-18
MW-18	MW-21
MW-21	MW-9
MW-9	DUP-2
DUP-2	MW-14
MW-4	
MW-11	
MW-14	

SVOC – SW-846-8270C	PAH by Low Level – SW-846-8270C
MW-21	MW-21
MW-9	MW-9
DUP-2	DUP-2
MW-11	MW-11

7. The following surrogates were outside the method specified limits due to matrix interference as indicated by "Z" qualifier:

SVOC – SW-846-8270C

2,4,6-Tribromophenol - MW-18 MW-4

2-Fluorophenol - MW-18 MW-4

8. The following surrogates were outside the method specified limits as indicated by "Z" qualifier:

FLA-PRO

(Nonatriacontane/C39) - MW-7
MW-1
MW-4
MW-11
Method Blank
Laboratory Control Sample
Matrix Spike
Matrix Spike Duplicate

o-Terphenyl - MW-7
MW-1
Matrix Spike
Matrix Spike Duplicate

The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

9. The surrogates were diluted out for the following samples; therefore no recoveries could be reported:

SVOC – SW-846-8270C	FLA-PRO
MW-21	MW-18
MW-9	MW-21
DUP-2	MW-9
MW-11	DUP-2
	MW-14

10. The laboratory control sample and/or laboratory control sample duplicate recoveries (LCS/LCSD) were outside the project specified limit for the following analytes:

SVOC – SW-846-8270C

LCS -	Benzoic Acid	
LCSD -	Benzoic Acid	Hexachlorocyclopentadiene

The laboratory control sample recovery was within the project specified limits for Hexachlorocyclopentadiene and there were no hits of this compound in the samples; therefore the data was accepted. The results for Benzoic Acid should be considered estimated due to all recoveries are bias low.

11. The laboratory control sample recovery was outside the project specified limit for the following analyte:

FL-PRO

The recovery was within historical limits established in the laboratory; therefore the data was accepted.

12. The following spike recoveries were outside the project specified limits due to matrix interference:

VOC – SW-46-8260B

Matrix Spike -	1,2-Dibromo-3-chloropropane	Naphthalene

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

13. The relative percent difference between the laboratory control sample and laboratory control sample duplicate was outside the project specified limit for the following analytes:

SVOC – SW-846-8270C

1,2,4-Trichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene
1,4-Dichlorobenzene 2-Chloronaphthalene 2-Methylnaphthalene
Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether Hexachlorobutadiene
Hexachlorocyclopentadiene Hexachloroethane Naphthalene 2-Nitrophenol
Benzoic Acid

14. Project Specified QC consists of a laboratory control sample and a laboratory control sample duplicate for the SVOC analysis due to limited sample volume. Note that the laboratory control sample and laboratory control duplicate recoveries are reported as matrix spike and matrix spike duplicate recoveries on the QC spreadsheet.

Quality Assurance Officer
Camden L. Robinson

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

I Camden Robinson as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (770) 449-8800 if there are any questions or problems with the enclosed electronic deliverables.

Signature: Camden Robinson Title: Q.C. Officer Date: 6/13/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

29911

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NVS
Address: 1401 Oven Park Dr. Tallahassee, FL 32312
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola Building 1932
Project Number: CTO 140 - No 547

Billing address:
Client P.O. #

For Laboratory Use Only
Custody Seal: Y N
Page 1 OF 1
QC Lab: TN: 1 2 3 4
Init/Temp: ABC/2°C
Sample Condition:
AAL Lab Project # 27779

Samplers: (signature): Dan Hartnett
Samplers: (printed): Dan Hartnett, Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOCs	EDB	Pb-Cr-Cd-As	SVOCs	PAH's	FL-PRO				Remarks	Accura Sample ID No. AAL-5-701
MW-7	5/3/01 0930		X	W	✓	Bldg 1932	12	3	2	1	2	2	2				Warm	12908
MW-18	5/3/01 1100		X	W	✓	" "	12	3	2	1	2	2	2				HOT! (sheen)	12909
(DH) MW-21	5/3/01 ~~1625~~ 1815		X	W	✓	" "	12	3	2	1	2	2	2				HOT!	12910
MW-9	(DH) ~~5/4/01~~ 5/4/01 1020		X	W	✓	" "	12	3	2	1	2	2	2				hot (moderate)	12911
MW-1	5/4/01 1100		X	W	✓	" "	12	3	2	1	2	2	2					12912
DUP-2	5/4/01 /		X	W	✓	" "	12	3	2	1	2	2	2					12913
MW-4	5/4/01 1530		X	W	✓	" "	12	3	2	1	2	2	2				Warm	12914
(DH) MW-~~14~~11	5/4/01 ~~1630~~ 1845		X	W	✓	" "	12	3	2	1	2	2	2					12915
Trip Blank								2										12916
(DH) MW-~~240~~ 14	5/3/01 1630						12	3	2	1	2	2	2					12917

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/4/01 1830	Fedex →	5/4/01	
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
Fedex →	5/5/01 10:20	[illegible]	5/5/01 10:50	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Feeds) (M = Miscellaneous)

29911

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: TetraTech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee, FL 32312
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola Building 1932
Project Number: CTO 140 - No 547

For Laboratory Use Only
Custody Seal: Y N Page 1 OF 1
QC Level: N 1 2 3 4 Init/Temp: ABC/2°C
Sample Condition: AAL Lab Project # 27799

Samplers: (signature) Dan Hartnett
Samplers: (printed) Dan Hartnett, Gary Davis

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	Pb-Cr-Cd-As	SVOC	PAH's	FL-PRO				Remarks	Accura Sample ID No.
MW-7	5/3/01 0930		X	W	✓	Bldg 1932	12	3	2	1	2	2	2				Warm	12908
MW-18	5/3/01 1100		X	W	✓	" "	12	3	2	1	2	2	2				HOT! (sheen)	12909
(DH) MW-21	5/3/01 ~~1625~~ 1815		X	W	✓	" "	12	3	2	1	2	2	2				HOT!	12910
MW-9 (DH)	~~5/4/01~~ 5/4/01 1020		X	W	✓	" "	12	3	2	1	2	2	2				hot (moderate)	12911
MW-1	5/4/01 1100		X	W	✓	" "	12	3	2	1	2	2	2					12912
DUP-2	5/4/01 /		X	W	✓	" "	12	3	2	1	2	2	2					12913
MW-4	5/4/01 1530		X	W	✓	" "	12	3	2	1	2	2	2				Warm	12914
(DH) MW-~~14~~11	5/4/01 ~~1630~~ 1835		X	W	✓	" "	12	3	2	1	2	2	2					12915
Trip Blank								2										12916
(DH) MW-~~240~~ 14	5/3/01 1630						12	3	2	1	2	2	2					12917

ABC-5-701

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/4/01 1830	Fedex →	5/4/01	
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
Fedex →	5/5/01 10:20	[illegible]	5/5/01 10:50	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12908** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-7**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0012	J	0.050
Lead	0.0073	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	10		1.0
2-Methylnaphthalene	11		1.0
Acenaphthene	4.4		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	4.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	3.8		1.0
Phenanthrene	2.5		1.0
Pyrene	0.76	J	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	8.5		2.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	3.6	J	10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	13		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	6.9	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	2.4	J	10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	3.1	J	10
Carbazole	<RL		10
Chrysene	2.6	J	10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL		10
Fluorene	4.8	J	10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Nitrobenzene	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	17		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	28		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	1.1	J	3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	12		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	1.3	J	6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	0.55	J	5.5
Total Xylenes	25		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	70		
Nitrobenzene-d5	(Range 37-104)	73		
p-Terphenyl-d14	(Range 15-132)	104		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	23	Z	
o-Terphenyl (Range 82-142)	39	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	92		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	108		
2-Fluorobiphenyl	(Range 21-122)	82		
2-Fluorophenol	(Range 11-114)	41		
Nitrobenzene-d5	(Range 16-125)	86		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	106		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12909** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-18**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0027	J	0.050
Lead	0.0062	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	36		1.0
2-Methylnaphthalene	62		1.0
Acenaphthene	3.6		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	3.6		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	61		1.0
Phenanthrene	4.0		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	36		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	2.3	J	10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	66		10
2-Methylphenol	3.6	J	10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	7.8	J	20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	64	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4.0
1,1,2,2-Tetrachloroethane	<RL		2.0
1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		2.0
1,1-Dichloroethene	<RL		6.0
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2.0
1,2,4-Trimethylbenzene	48		33
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3.0
1,2-Dichloropropane	<RL		2.0
1,2-Ethylene Dibromide	<RL		3.0
1,3,5-Trimethylbenzene	22		2.5
1,3-Dichlorobenzene	<RL		6.0
1,3-Dichloropropane	<RL		2.0
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		18
2-Chlorotoluene	<RL		2.0
4-Chlorotoluene	<RL		3.0
Benzene	0.68	J	1.0
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2.0
Bromodichloromethane	<RL		4.0
Bromoform	<RL		6.0
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10
Chlorobenzene	<RL		2.0
Chloroethane	<RL		5.0
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6.0
cis-1,3-Dichloropropene	<RL		5.0
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5.0
Ethylbenzene	26		3.0
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	110		10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	7.2		2.0
p-Isopropyltoluene	2.2	J	6.0
Sec-Butylbenzene	1.4	J	6.5
Styrene	<RL		2.0
Tert-Butylbenzene	<RL		7.0
Tetrachloroethylene	<RL		7.0
Toluene	2.2	J	5.5
Total Xylenes	49		5.0
trans-1,2-Dichloroethene	<RL		3.0
trans-1,3-Dichloropropene	<RL		5.0
Trichloroethylene	<RL		5.0
Trichlorofluoromethane	<RL		4.0
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	80		
Nitrobenzene-d5	(Range 37-104)	83		
p-Terphenyl-d14	(Range 15-132)	111		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	90		
4-Bromofluorobenzene (80-120)	93		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	3.8	Z	
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	4.4	Z	
Nitrobenzene-d5	(Range 16-125)	80		
Phenol-d6	(Range 9-109)	20		
p-Terphenyl-d14	(Range 5-157)	91		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12910** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-21**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0040	J	0.050
Lead	0.0087	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	73		10
2-Methylnaphthalene	120		10
Acenaphthene	6.1	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	8.3	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	110		10
Phenanthrene	7.2	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	120		100
2-Methylphenol	13	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	36	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Naphthalene	100		100
Nitrobenzene	<RL		100
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	11	J	100
Pyrene	<RL		100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		25
1,1,1-Trichloroethane	<RL		40
1,1,2,2-Tetrachloroethane	<RL		20
1,1,2-Trichloroethane	<RL		50
1,1-Dichloroethane	<RL		20
1,1-Dichloroethene	<RL		60
1,2,3-Trichlorobenzene	<RL		15
1,2,3-Trichloropropane	<RL		160
1,2,4-Trichlorobenzene	<RL		20
1,2,4-Trimethylbenzene	230		65
1,2-Dibromo-3-chloropropane	<RL		130
1,2-Dichlorobenzene	<RL		15
1,2-Dichloroethane	<RL		30
1,2-Dichloropropane	<RL		20
1,2-Ethylene Dibromide	<RL		30
1,3,5-Trimethylbenzene	70		25
1,3-Dichlorobenzene	<RL		60
1,3-Dichloropropane	<RL		20
1,4-Dichlorobenzene	<RL		15
2,2-Dichloropropane	<RL		180
2-Chlorotoluene	<RL		20
4-Chlorotoluene	<RL		30
Benzene	<RL		10
Bromobenzene	<RL		15
Bromochloromethane	<RL		20
Bromodichloromethane	<RL		40
Bromoform	<RL		60
Bromomethane	<RL		55
Carbon tetrachloride	<RL		110
Chlorobenzene	<RL		20
Chloroethane	<RL		50
Chloroform	<RL		15
Chloromethane	<RL		65
cis-1,2-Dichloroethene	<RL		60
cis-1,3-Dichloropropene	<RL		50
Dibromochloromethane	<RL		25

Dibromomethane	<RL		120
Dichlorodifluoromethane	<RL		50
Ethylbenzene	69		30
Hexachlorobutadiene	<RL		55
Isopropylbenzene	9.5	J	25
Methylene chloride	9.8	J	15
Naphthalene	220		20
n-Butylbenzene	<RL		55
n-Propylbenzene	15		20
p-Isopropyltoluene	5.3	J	60
Sec-Butylbenzene	<RL		65
Styrene	<RL		20
Tert-Butylbenzene	<RL		70
Tetrachloroethylene	<RL		70
Toluene	<RL		55
Total Xylenes	320		50
trans-1,2-Dichloroethene	<RL		30
trans-1,3-Dichloropropene	<RL		50
Trichloroethylene	<RL		50
Trichlorofluoromethane	<RL		40
Vinyl chloride	<RL		55

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	80		
Nitrobenzene-d5	(Range 37-104)	97		
p-Terphenyl-d14	(Range 15-132)	96		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	102		
4-Bromofluorobenzene (80-120)	108		
Toluene-d8 (80-119)	105		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12911** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-9**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0029	J	0.050
Lead	0.0060	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	37		10
2-Methylnaphthalene	49		10
Acenaphthene	6.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	7.6	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	44		10
Phenanthrene	5.6	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	30	10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	46	J	100
2-Methylphenol	12	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	83	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Naphthalene	44	J	100
Nitrobenzene	<RL		100
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	<RL		100
Pyrene	<RL		100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		12
1,1,1-Trichloroethane	<RL		20
1,1,2,2-Tetrachloroethane	<RL		10
1,1,2-Trichloroethane	<RL		25
1,1-Dichloroethane	<RL		10
1,1-Dichloroethene	<RL		30
1,2,3-Trichlorobenzene	<RL		7.5
1,2,3-Trichloropropane	<RL		80
1,2,4-Trichlorobenzene	<RL		10
1,2,4-Trimethylbenzene	80		32
1,2-Dibromo-3-chloropropane	<RL		65
1,2-Dichlorobenzene	<RL		7.5
1,2-Dichloroethane	<RL		15
1,2-Dichloropropane	<RL		10
1,2-Ethylene Dibromide	<RL		15
1,3,5-Trimethylbenzene	36		12
1,3-Dichlorobenzene	<RL		30
1,3-Dichloropropane	<RL		10
1,4-Dichlorobenzene	<RL		7.5
2,2-Dichloropropane	<RL		88
2-Chlorotoluene	<RL		10
4-Chlorotoluene	<RL		15
Benzene	4.1	J	5.0
Bromobenzene	<RL		7.5
Bromochloromethane	<RL		10
Bromodichloromethane	<RL		20
Bromoform	<RL		30
Bromomethane	<RL		28
Carbon tetrachloride	<RL		52
Chlorobenzene	<RL		10
Chloroethane	<RL		25
Chloroform	<RL		7.5
Chloromethane	<RL		32
cis-1,2-Dichloroethene	<RL		30
cis-1,3-Dichloropropene	<RL		25
Dibromochloromethane	<RL		12

Dibromomethane	<RL		60
Dichlorodifluoromethane	<RL		25
Ethylbenzene	32		15
Hexachlorobutadiene	<RL		28
Isopropylbenzene	4.2	J	12
Methylene chloride	<RL		7.5
Naphthalene	120		10
n-Butylbenzene	<RL		28
n-Propylbenzene	6.2	J	10
p-Isopropyltoluene	2.8	J	30
Sec-Butylbenzene	<RL		32
Styrene	<RL		10
Tert-Butylbenzene	<RL		35
Tetrachloroethylene	<RL		35
Toluene	5.0	J	28
Total Xylenes	120		25
trans-1,2-Dichloroethene	<RL		15
trans-1,3-Dichloropropene	<RL		25
Trichloroethylene	<RL		25
Trichlorofluoromethane	<RL		20
Vinyl chloride	<RL		28

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	73		
Nitrobenzene-d5	(Range 37-104)	87		
p-Terphenyl-d14	(Range 15-132)	107		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	88		
4-Bromofluorobenzene (80-120)	98		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12912** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: WALKER, GERRY Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 6/13/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-1**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0041	JB	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	25		1.0
2-Methylnaphthalene	27		1.0
Acenaphthene	4.3		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	5.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	17		1.0
Phenanthrene	4.6		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	6.6		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	29		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	3.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Nitrobenzene	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	4.8	J	10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	18		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	2.5		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	8.7		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	2.8		2.5
Methylene chloride	1.7		1.5
Naphthalene	34		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	4.6		2
p-Isopropyltoluene	1.6	J	6
Sec-Butylbenzene	1.9	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	1.6	J	5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	68		
Nitrobenzene-d5	(Range 37-104)	68		
p-Terphenyl-d14	(Range 15-132)	90		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	29	Z	
o-Terphenyl (Range 82-142)	9.9	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	102		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	82		
2-Fluorobiphenyl	(Range 21-122)	66		
2-Fluorophenol	(Range 11-114)	43		
Nitrobenzene-d5	(Range 16-125)	71		
Phenol-d6	(Range 9-109)	28		
p-Terphenyl-d14	(Range 5-157)	77		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12913** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-2**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0028	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	38		10
2-Methylnaphthalene	49		10
Acenaphthene	6.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	7.2	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	46		10
Phenanthrene	5.2	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	45	J	100
2-Methylphenol	12	J	100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	87	J	200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL		100
Fluorene	<RL		100
Hexachlorobenzene	<RL		100
Hexachlorobutadiene	<RL		100
Hexachlorocyclopentadiene	<RL		100
Hexachloroethane	<RL		100
Indeno(1,2,3-cd)pyrene	<RL		100
Naphthalene	48	J	100
Nitrobenzene	<RL		100
N-Nitroso-di-n-propylamine	<RL		100
N-Nitrosodiphenylamine	<RL		100
Pentachlorophenol	<RL		500
Phenanthrene	<RL		100
Phenol	<RL		100
Pyrene	<RL		100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		12
1,1,1-Trichloroethane	<RL		20
1,1,2,2-Tetrachloroethane	<RL		10
1,1,2-Trichloroethane	<RL		25
1,1-Dichloroethane	<RL		10
1,1-Dichloroethene	<RL		30
1,2,3-Trichlorobenzene	<RL		7.5
1,2,3-Trichloropropane	<RL		80
1,2,4-Trichlorobenzene	<RL		10
1,2,4-Trimethylbenzene	82		32
1,2-Dibromo-3-chloropropane	<RL		65
1,2-Dichlorobenzene	<RL		7.5
1,2-Dichloroethane	<RL		15
1,2-Dichloropropane	<RL		10
1,2-Ethylene Dibromide	<RL		15
1,3,5-Trimethylbenzene	38		12
1,3-Dichlorobenzene	<RL		30
1,3-Dichloropropane	<RL		10
1,4-Dichlorobenzene	<RL		7.5
2,2-Dichloropropane	<RL		88
2-Chlorotoluene	<RL		10
4-Chlorotoluene	<RL		15
Benzene	3.9	J	5.0
Bromobenzene	<RL		7.5
Bromochloromethane	<RL		10
Bromodichloromethane	<RL		20
Bromoform	<RL		30
Bromomethane	<RL		28
Carbon tetrachloride	<RL		52
Chlorobenzene	<RL		10
Chloroethane	<RL		25
Chloroform	<RL		7.5
Chloromethane	<RL		32
cis-1,2-Dichloroethene	<RL		30
cis-1,3-Dichloropropene	<RL		25
Dibromochloromethane	<RL		12

Dibromomethane	<RL		60
Dichlorodifluoromethane	<RL		25
Ethylbenzene	32		15
Hexachlorobutadiene	<RL		28
Isopropylbenzene	4.2	J	12
Methylene chloride	<RL		7.5
Naphthalene	120		10
n-Butylbenzene	<RL		28
n-Propylbenzene	6.1	J	10
p-Isopropyltoluene	3.0	J	30
Sec-Butylbenzene	<RL		32
Styrene	<RL		10
Tert-Butylbenzene	<RL		35
Tetrachloroethylene	<RL		35
Toluene	5.3	J	28
Total Xylenes	120		25
trans-1,2-Dichloroethene	<RL		15
trans-1,3-Dichloropropene	<RL		25
Trichloroethylene	<RL		25
Trichlorofluoromethane	<RL		20
Vinyl chloride	<RL		28

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl (Range 43-111)	79		
Nitrobenzene-d5 (Range 37-104)	92		
p-Terphenyl-d14 (Range 15-132)	116		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	85		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 28-142)	<RL	DO	
2-Fluorobiphenyl (Range 21-122)	<RL	DO	
2-Fluorophenol (Range 11-114)	<RL	DO	
Nitrobenzene-d5 (Range 16-125)	<RL	DO	
Phenol-d6 (Range 9-109)	<RL	DO	
p-Terphenyl-d14 (Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12914** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-4**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	0.0014	J	0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	10		5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL		10
Fluorene	<RL		10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Nitrobenzene	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	2.1	J	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	2.2	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	68		
p-Terphenyl-d14	(Range 15-132)	95		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/13/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	23	Z	
o-Terphenyl (Range 82-142)	89		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	90		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	105		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	17	Z	
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	7.0	Z	
Nitrobenzene-d5	(Range 16-125)	72		
Phenol-d6	(Range 9-109)	18		
p-Terphenyl-d14	(Range 5-157)	103		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12915** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/4/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-11**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0017	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	6.7	J	10
2-Methylnaphthalene	<RL		10
Acenaphthene	4.7	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	3.1	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	7.7	J	10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO) 8.2 5.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	13		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	17		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	6.8		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	0.64	J	2.5
Methylene chloride	<RL		1.5
Naphthalene	25		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	1.1	J	6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	1.9	J	5.5
Total Xylenes	52		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl (Range 43-111)	89		
Nitrobenzene-d5 (Range 37-104)	87		
p-Terphenyl-d14 (Range 15-132)	106		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	8.2	Z	
o-Terphenyl (Range 82-142)	120		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	100		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 28-142)	<RL	DO	
2-Fluorobiphenyl (Range 21-122)	<RL	DO	
2-Fluorophenol (Range 11-114)	<RL	DO	
Nitrobenzene-d5 (Range 16-125)	<RL	DO	
Phenol-d6 (Range 9-109)	<RL	DO	
p-Terphenyl-d14 (Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12916** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **TRIP BLANK**

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	0.57	J	2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	1.9	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	107		
4-Bromofluorobenzene (80-120)	105		
Toluene-d8 (80-119)	105		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12917** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/3/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-14**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/17/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0013	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	50		1.0
2-Methylnaphthalene	69		1.0
Acenaphthene	6.5		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	8.0		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	49		1.0
Phenanthrene	6.2		1.0
Pyrene	0.30	J	1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	17		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	71		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	5.7	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Client Sample ID: MW-14 AALSample ID #: AC12917 Accura Project #: 27799

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	47	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	18		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	0.65	J	2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	14		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	4.9		2.5
Methylene chloride	<RL		1.5
Naphthalene	99		10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	8.2		2
p-Isopropyltoluene	2.6	J	6
Sec-Butylbenzene	3.3	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	0.70	J	7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	76		
Nitrobenzene-d5	(Range 37-104)	85		
p-Terphenyl-d14	(Range 15-132)	115		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	85		
4-Bromofluorobenzene (80-120)	97		
Toluene-d8 (80-119)	99		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	98		
2-Fluorobiphenyl	(Range 21-122)	73		
2-Fluorophenol	(Range 11-114)	48		
Nitrobenzene-d5	(Range 16-125)	83		
Phenol-d6	(Range 9-109)	34		
p-Terphenyl-d14	(Range 5-157)	93		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC12918** **Accura Project #:** **27799**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/5/01

Client Project Number: NO547/CTO 140 Date Reported: 5/31/01

Client Project Name: NAS PENSACOLA BLDG 1932 Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/16/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	0.0052	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.49	J	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Client Sample ID: METHOD BLANK AALSample ID #: AC12918 Accura Project #: 27799

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X Base Neutral QC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 27-121)	61		
Nitrobenzene-d5	(Range 24-114)	63		
p-Terphenyl-d14	(Range 28-139)	89		

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	19	Z	
o-Terphenyl (Range 82-142)	89		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/11/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	94		
4-Bromofluorobenzene (81-118)	103		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC QC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/9/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 25-127)	72		
2-Fluorobiphenyl	(Range 27-121)	59		
2-Fluorophenol	(Range 24-101)	44		
Nitrobenzene-d5	(Range 24-114)	62		
Phenol-d6	(Range 26-104)	31		
p-Terphenyl-d14	(Range 28-139)	94		

PROJECT QUALITY CONTROL RESULTS
AAL #27799

Method No[1]	Analyte / Component	Project Control Rec. MS Water	Project Control Rec. MSD Water	Project Control Rec. MS Soil[2]	Project Control Rec. MSD Soil[2]	Accuracy Limits MS/MSD Recoveries Water	Accuracy Limits MS/MSD Recoveries Soil[2]	Project Control MS/MSD % Deviation Water	Project Control MS/MSD % Deviation Soil[2]	Precision Limits MS/MSD Deviation Water	Precision Limits MS/MSD Deviation Soil[2]	Project Control Recoveries LCS Water	Project Control Recoveries LCS Soil[2]	Accuracy Limits LCS Recoveries Water	Accuracy Limits LCS Recoveries Soil[2]	Project Control Field Dup % Deviation Water	Project Control Field Dup % Deviation Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%		
8260B	1,1,1,2-Tetrachloroethane	116	114			60-140	20-150	1%	#VALUE!	<30	<50	103		62-108	62-108		
8260B	1,1,1-Trichloroethane	104	102			60-140	20-150	1%	#VALUE!	<30	<50	95		65-135	65-135		
8260B	1,1,2,2-Tetrachloroethane	96	99			60-140	20-150	3%	#VALUE!	<30	<50	105		64-135	64-135		
8260B	1,1,2-Trichloroethane	109	113			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	1,1-Dichloroethane	102	102			60-140	20-150	1%	#VALUE!	<30	<50	98		62-135	62-135		
8260B	1,1-Dichloroethene	96	97			60-140	20-150	1%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	1,2,3-Trichlorobenzene	98	121			60-140	20-150	21%	#VALUE!	<30	<50	100		65-147	65-147		
8260B	1,2,3-Trichloropropane	115	102			60-140	20-150	12%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2,4-Trichlorobenzene	115	119			60-140	20-150	4%	#VALUE!	<30	<50	102		65-145	65-145		
8260B	1,2,4-Trimethylbenzene	103	105			60-140	20-150	1%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2-Dichloroethane	106	108			60-140	20-150	2%	#VALUE!	<30	<50	93		58-137	58-137		
8260B	1,2-Dichlorobenzene	102	106			60-140	20-150	3%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2-Dibromo-3-chloropropane	154	136			60-140	20-150	13%	#VALUE!	<30	<50	99		49-135	49-135		
8260B	1,2-Dichloropropane	95	97			60-140	20-150	2%	#VALUE!	<30	<50	100		60-135	60-135		
8260B	1,2-Ethylene Dibromide	118	120			60-140	20-150	1%	#VALUE!	<30	<50	105		65-135	65-135		
8260B	1,3,5-Trimethylbenzene	100	102			60-140	20-150	2%	#VALUE!	<30	<50	101		62-135	62-135		
8260B	1,3-Dichlorobenzene	99	103			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	1,3-Dichloropropane	82	81			60-140	20-150	2%	#VALUE!	<30	<50	98		65-135	65-135		
8260B	1,4-Dichlorobenzene	99	103			60-140	20-150	4%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	2,2-Dichloropropane	82	81			60-140	20-150	2%	#VALUE!	<30	<50	98		65-135	65-135		
8260B	2-Chlorotoluene	97	101			60-140	20-150	4%	#VALUE!	<30	<50	100		63-135	63-135		
8260B	4-Chlorotoluene	105	107			60-140	20-150	2%	#VALUE!	<30	<50	102		64-135	64-135		
8260B	Benzene	92	94			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	Bromobenzene	98	102			60-140	20-150	4%	#VALUE!	<30	<50	101		65-135	65-135		
8260B	Bromochloromethane	97	97			60-140	20-150	0%	#VALUE!	<30	<50	103		63-135	63-135		
8260B	Bromodichloromethane	112	112			60-140	20-150	0%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Bromoform	106	106			60-140	20-150	0%	#VALUE!	<30	<50	94		65-135	65-135		
8260B	Bromomethane	62	68			60-140	20-150	10%	#VALUE!	<30	<50	85		62-135	62-135		
8260B	Carbon Tetrachloride	108	106			60-140	20-150	1%	#VALUE!	<30	<50	98		52-135	52-135		
8260B	Chlorobenzene	98	100			60-140	20-150	2%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	Chloroethane	92	91			60-140	20-150	1%	#VALUE!	<30	<50	92		55-135	55-135		
8260B	Chloroform	100	102			60-140	20-150	1%	#VALUE!	<30	<50	98		64-135	64-135		
8260B	Chloromethane	76	77			60-140	20-150	1%	#VALUE!	<30	<50	95		65-135	65-135		
8260B	Cis-1,2-Dichloroethene	93	95			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	Cis-1,3-Dichloropropene	93	93			60-140	20-150	1%	#VALUE!	<30	<50	99		64-135	64-135		
8260B	Dibromochloromethane	112	114			60-140	20-150	2%	#VALUE!	<30	<50	96		63-135	63-135		
8260B	Dibromomethane	110	112			60-140	20-150	2%	#VALUE!	<30	<50	104		59-137	59-137		
8260B	Dichlorodifluoromethane	85	84			60-140	20-150	2%	#VALUE!	<30	<50	84		65-135	65-135		
8260B	Ethylbenzene	102	104			60-140	20-150	1%	#VALUE!	<30	<50	101		65-135	65-135		
8260B	Hexachlorobutadiene	126	131			60-140	20-150	3%	#VALUE!	<30	<50	106		65-135	65-135		
8260B	Isopropylbenzene	90	92			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	total-Xylene	102	102			60-140	20-150	1%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	Methylene Chloride	103	112			60-140	20-150	8%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	n-Butylbenzene	103	104			60-140	20-150	1%	#VALUE!	<30	<50	103		65-135	65-135		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27799

8260B	n-Propylbenzene	93	95			60-140	20-150	3%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	Naphthalene	149	140			60-140	20-150	6%	#VALUE!	<30	<50	107		65-135	65-135		
8260B	p-Isopropyltoluene	99	101			60-140	20-150	2%	#VALUE!	<30	<50	104		65-135	65-135		
8260B	Sec-Butylbenzene	94	98			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Styrene	106	104			60-140	20-150	2%	#VALUE!	<30	<50	107		65-135	65-135		
8260B	Trichloroethylene	97	100			60-140	20-150	3%	#VALUE!	<30	<50	100		61-135	61-135		
8260B	Tert-Butylbenzene	96	98			60-140	20-150	2%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Tetrachloroethylene	102	104			60-140	20-150	2%	#VALUE!	<30	<50	98		61-135	61-135		
8260B	Toluene	98	102			60-140	20-150	4%	#VALUE!	<30	<50	98		64-135	64-135		
8260B	Trans-1,2-Dichloroethene	93	96			60-140	20-150	4%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	Trans-1,3-Dichloropropene	103	100			60-140	20-150	3%	#VALUE!	<30	<50	96		56-135	56-135		
8260B	Trichlorofluoromethane	107	106			60-140	20-150	0%	#VALUE!	<30	<50	91		57-135	57-135		
8260B	Vinyl Chloride	86	87			60-140	20-150	1%	#VALUE!	<30	<50	91		36-144	36-144		
8260B	Toluene-d8 (surr)	101	101			75-125	65-135	1%	#VALUE!	NA	NA	97		NA	NA		
8260B	4-Bromofluorobenzene (surr)	105	107			75-122	65-135	2%	#VALUE!	NA	NA	98		NA	NA		
8260B	1,2-Dichloroethane-d4 (surr)	111	113			62-139	52-149	2%	#VALUE!	NA	NA	92		NA	NA		
	SEMI-VOLATILES BY GC/MS					%	%			%	%			%	%		
8270C	1,2,4-Trichlorobenzene	85	57			44-142	20-150	39%	#DIV/0!	<30	<50			44-142	34-152		
8270C	1,2-Dichlorobenzene	84	53			42-155	20-150	45%	#DIV/0!	<30	<50			42-155	32-135		
8270C	1,3-Dichlorobenzene	80	52			36-125	20-150	42%	#DIV/0!	<30	<50			36-125	26-135		
8270C	1,4-Dichlorobenzene	79	54			30-125	20-150	38%	#DIV/0!	<30	<50			30-125	25-135		
8270C	2,4-Dinitrotoluene	112	99			39-139	20-150	12%	#DIV/0!	<30	<50			39-139	29-149		
8270C	2,6-Dinitrotoluene	104	89			51-125	20-150	16%	#DIV/0!	<30	<50			51-125	41-135		
8270C	2-Chloronaphthalene	89	63			60-125	20-150	34%	#DIV/0!	<30	<50			60-125	50-135		
8270C	2-Methylnaphthalene	94	65			41-125	20-150	36%	#DIV/0!	<30	<50			41-125	31-135		
8270C	2-Nitroaniline	103	90			50-125	20-150	13%	#DIV/0!	<30	<50			50-125	40-135		
8270C	3,3'-Dichlorobenzidine	82	64			29-175	20-150	25%	#DIV/0!	<30	<50			29-175	25-175		
8270C	3-Nitroaniline	108	103			51-125	20-150	5%	#DIV/0!	<30	<50			51-125	41-135		
8270C	4-Bromophenyl-phenyl ether	104	83			53-127	20-150	22%	#DIV/0!	<30	<50			53-127	43-137		
8270C	4-Chloroaniline	94	95			45-136	20-150	1%	#DIV/0!	<30	<50			45-136	35-146		
8270C	4-Chlorophenyl-phenyl ether	106	86			51-132	20-150	21%	#DIV/0!	<30	<50			51-132	41-142		
8270C	4-Nitroaniline	111	107			40-143	20-150	4%	#DIV/0!	<30	<50			40-143	30-153		
8270C	Acenaphthylene	96	74			47-125	20-150	26%	#DIV/0!	<30	<50			47-125	37-135		
8270C	Acenaphthene	99	74			49-124	20-150	29%	#DIV/0!	<30	<50			49-124	39-135		
8270C	Anthracene	108	94			45-165	20-150	14%	#DIV/0!	<30	<50			45-165	35-175		
8270C	Benzo (a) anthracene	109	96			51-133	20-150	13%	#DIV/0!	<30	<50			51-133	41-143		
8270C	Benzo (a) pyrene	98	89			41-125	20-150	10%	#DIV/0!	<30	<50			41-125	31-135		
8270C	Benzo (b) fluoranthene	94	91			37-125	20-150	3%	#DIV/0!	<30	<50			37-125	27-135		
8270C	Benzo (g,h,i) perylene	104	85			34-149	20-150	20%	#DIV/0!	<30	<50			34-149	25-159		
8270C	Benzyl alcohol	74	65			35-125	20-150	13%	#DIV/0!	<30	<50			35-125	25-135		
8270C	Bis (2-chloroethoxy) methane	96	73			49-125	20-150	27%	#DIV/0!	<30	<50			49-125	39-135		
8270C	Bis (2-chloroethyl) ether	92	68			44-125	20-150	30%	#DIV/0!	<30	<50			44-125	34-135		
8270C	Bis (2-chloroisopropyl) ether	93	68			36-166	20-150	31%	#DIV/0!	<30	<50			36-166	26-175		
8270C	Bis (2-ethylhexyl) phthalate	115	107			33-129	20-150	7%	#DIV/0!	<30	<50			33-129	25-139		
8270C	Butyl benzyl phthalate	119	110			26-125	20-150	8%	#DIV/0!	<30	<50			26-125	25-135		
8270C	Chrysene	110	100			55-133	20-150	10%	#DIV/0!	<30	<50			55-133	45-143		
8270C	Di-n-butyl phthalate	115	106			34-126	20-150	8%	#DIV/0!	<30	<50			34-126	25-136		
8270C	Di-n-octyl phthalate	109	101			38-127	20-150	8%	#DIV/0!	<30	<50			38-127	28-137		
8270C	Dibenzo (a,h) anthracene	104	91			50-125	20-150	13%	#DIV/0!	<30	<50			50-125	40-135		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27799

8270C	Dibenzofuran	100	78			52-125	20-150	25%	#DIV/0!	<30	<50			52-125	42-135		
8270C	Diethyl phthalate	116	109			37-125	20-150	6%	#DIV/0!	<30	<50			37-125	27-135		
8270C	Dimethyl phthalate	106	97			25-175	20-150	9%	#DIV/0!	<30	<50			25-175	25-175		
8270C	Fluoranthene	110	94			47-125	20-150	16%	#DIV/0!	<30	<50			47-125	37-135		
8270C	Fluorene	106	89			48-139	20-150	17%	#DIV/0!	<30	<50			48-139	38-149		
8270C	Hexachlorobenzene	107	88			46-133	20-150	19%	#DIV/0!	<30	<50			46-133	36-143		
8270C	Hexachlorobutadiene	79	52			25-125	20-150	41%	#DIV/0!	<30	<50			25-125	25-135		
8270C	Hexachlorocyclopentadiene	59	33			41-125	20-150	57%	#DIV/0!	<30	<50			41-125	31-135		
8270C	Hexachloroethane	75	49			25-153	20-150	42%	#DIV/0!	<30	<50			25-153	25-163		
8270C	Indeno (1,2,3-c,d) pyrene	94	92			27-160	20-150	2%	#DIV/0!	<30	<50			27-160	25-170		
8270C	Isophorone	98	78			26-175	20-150	23%	#DIV/0!	<30	<50			26-175	25-175		
8270C	N-Nitrosodi-n-propylamine	88	70			37-125	20-150	23%	#DIV/0!	<30	<50			37-125	27-135		
8270C	N-Nitrosodiphenylamine	102	85			27-125	20-150	18%	#DIV/0!	<30	<50			27-125	25-135		
8270C	Naphthalene	89	61			50-125	20-150	37%	#DIV/0!	<30	<50			50-125	40-135		
8270C	Nitrobenzene	89	69			46-133	20-150	25%	#DIV/0!	<30	<50			46-133	36-143		
8270C	Phenanthrene	108	90			54-125	20-150	18%	#DIV/0!	<30	<50			54-125	44-135		
8270C	Pyrene	121	106			47-136	20-150	13%	#DIV/0!	<30	<50			47-136	37-146		
8270C	2,4,5-Trichlorophenol	99	86			25-175	20-150	14%	#DIV/0!	<30	<50			25-175	25-175		
8270C	2,4,6-Trichlorophenol	99	86			39-128	20-150	14%	#DIV/0!	<30	<50			39-128	29-138		
8270C	2,4-Dichlorophenol	96	74			46-125	20-150	26%	#DIV/0!	<30	<50			46-125	36-135		
8270C	2,4-Dimethylphenol	71	73			45-139	20-150	3%	#DIV/0!	<30	<50			45-139	35-149		
8270C	2,4-Dinitrophenol	76	75			30-151	20-150	1%	#DIV/0!	<30	<50			30-151	25-161		
8270C	2-Chlorophenol	82	65			41-125	20-150	23%	#DIV/0!	<30	<50			41-125	31-135		
8270C	2-Methylphenol	82	68			25-125	20-150	19%	#DIV/0!	<30	<50			25-125	25-135		
8270C	2-Nitrophenol	95	70			44-125	20-150	30%	#DIV/0!	<30	<50			44-125	34-135		
8270C	4,6-Dinitro-2-methyl phenol	85	81			26-134	20-150	5%	#DIV/0!	<30	<50			26-134	25-144		
8270C	4-Chloro-3-methyl phenol	110	96			44-125	20-150	14%	#DIV/0!	<30	<50			44-125	34-135		
8270C	4-Methylphenol	78	68			33-125	20-150	14%	#DIV/0!	<30	<50			33-125	25-135		
8270C	4-Nitrophenol	43	47			25-131	20-150	9%	#DIV/0!	<30	<50			25-131	25-141		
8270C	Benzoic acid	11	19			25-162	20-150	53%	#DIV/0!	<30	<50			25-162	25-172		
8270C	Pentachlorophenol	106	93			28-136	20-150	13%	#DIV/0!	<30	<50			28-136	38-146		
8270C	Phenol	40	36			25-125	20-150	11%	#DIV/0!	<30	<50			25-125	25-135		
8270C	3-Methylphenol	78	68			25-125	20-150	14%	#DIV/0!	<30	<50			25-125	25-135		
8270C	Benzo (k) fluoranthene	100	93			37-123	20-150	7%	#DIV/0!	<30	<50			37-123	37-123		
8270C	Carbazole	112	102			34-132	20-150	9%	#DIV/0!	<30	<50			34-132	34-132		
8270C	2,4,6-Tribromophenol	80	79			25-134	19-122	1%	#DIV/0!								
8270C	2-Fluorobiphenyl	75	61			43-125	34-135	21%	#DIV/0!								
8270C	2-Fluorophenol	41	40			25-125	25-135	2%	#DIV/0!								
8270C	Nitrobenzene-d5	71	58			32-125	25-135	20%	#DIV/0!								
8270C	Phenol-d5	28	29			25-125	25-135	4%	#DIV/0!								
8270C	Terphenyl-d14	92	88			42-126	32-136	4%	#DIV/0!								
	METALS BY ICP					%	%			%	%			%	%		
6010B	Arsenic	108	98			50-150	30-170	10%	#DIV/0!	<30	<50	92		79-115	79-115		
6010B	Cadmium	108	101			50-150	30-170	7%	#DIV/0!	<30	<50	94		78-118	78-118		
6010B	Chromium	108	100			50-150	30-170	8%	#DIV/0!	<30	<50	93		82-115	82-115		
6010B	Lead	112	105			50-150	30-170	6%	#DIV/0!	<30	<50	92		79-116	79-116		
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%		
FL-PRO	TPH	59	58			50-150	30-170	2%	#DIV/0!	<30	<50	70		75-125	70-130		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27799

LOW LEVEL PAH'S BY GC/MS						%	%			%	%			%	%		
8270C	1-Methylnaphthalene	82	85			41-125	31-135	4%	#DIV/0!	<30	<50	61		41-125	31-135		
8270C	2-Methylnaphthalene	91	93			41-125	31-135	2%	#DIV/0!	<30	<50	66		41-125	31-135		
8270C	Acenaphthylene	94	97			47-125	37-135	3%	#DIV/0!	<30	<50	74		47-125	37-135		
8270C	Acenaphthene	92	93			49-124	39-135	1%	#DIV/0!	<30	<50	74		49-124	39-135		
8270C	Anthracene	101	104			45-165	35-175	3%	#DIV/0!	<30	<50	89		45-165	35-175		
8270C	Benzo (a) anthracene	104	107			51-133	41-143	3%	#DIV/0!	<30	<50	101		51-133	41-143		
8270C	Benzo (a) pyrene	115	116			41-125	31-135	1%	#DIV/0!	<30	<50	102		41-125	31-135		
8270C	Benzo (b) fluoranthene	118	116			37-125	27-135	2%	#DIV/0!	<30	<50	108		37-125	27-135		
8270C	Benzo (g,h,i) perylene	112	114			34-149	25-159	2%	#DIV/0!	<30	<50	101		34-149	25-159		
8270C	Benzo (k) fluoranthene	102	109			37-123	37-123	7%	#DIV/0!	<30	<50	104		37-123	37-123		
8270C	Chrysene	100	103			55-133	45-143	3%	#DIV/0!	<30	<50	97		55-133	45-143		
8270C	Dibenzo (a,h) anthracene	101	104			50-125	40-135	3%	#DIV/0!	<30	<50	93		50-125	40-135		
8270C	Fluoranthene	108	112			47-125	37-135	4%	#DIV/0!	<30	<50	100		47-125	37-135		
8270C	Fluorene	107	110			48-139	38-149	3%	#DIV/0!	<30	<50	86		48-139	38-149		
8270C	Indeno (1,2,3-c,d) pyrene	115	118			27-160	25-170	3%	#DIV/0!	<30	<50	104		27-160	25-170		
8270C	Naphthalene	89	93			50-125	40-135	4%	#DIV/0!	<30	<50	67		50-125	40-135		
8270C	Phenanthrene	99	102			54-125	44-135	3%	#DIV/0!	<30	<50	90		54-125	44-135		
8270C	Pyrene	107	107			47-136	37-146	0%	#DIV/0!	<30	<50	107		47-136	37-146		
8270C	2-Fluorobiphenyl	73	77			43-125	34-135	5%	#DIV/0!	<30	<50	61					
8270C	Nitrobenzene-d5	73	79			32-125	25-135	8%	#DIV/0!	<30	<50	59					
8270C	Terphenyl-d14	84	85			42-126	32-136	1%	#DIV/0!	<30	<50	89					

EDB						%	%			%	%			%	%		
504.1	1,2-Dibromoethane	105	107			60-140	20-150	2%	#VALUE!	<30	<50	95		62-108	62-108		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS - Not Specified
NA - Not Applicable

Tetra Tech NUS, Inc. **Internal Correspondence**

TO:	**Mr. Gerald Walker**		**DATE: July 31, 2001**
FROM:	**Suzanne Smith**	**CC:**	**File**
SUBJECT:	**Organic and Inorganic Data Validation – VOC, EDB, SVOC, PAH, TRPH, and Metals** **CTO140 – NAS Pensacola, Building 1932** **SDG 27818**		
SAMPLES:	**10/Aqueous**		

MW-16	**MW-8**	**MW-5**	**MW-24D**	**MW-6**
MW-20	**MW-2**	**EB-2**	**DUP-3**	**TRIP BLANK**

OVERVIEW

The sample set for CTO140, SDG 27818; Naval Air Station Pensacola, Building 1932, Pensacola, Florida consists of eight (8) aqueous environmental samples, one (1) equipment blank and one (1) trip blank. The environmental samples and equipment blank were analyzed for Volatile Organic Carbons (VOCs), EDB, Semi-Volatile Organic Carbons (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Total Residual Petroleum Hydrocarbons (TRPHs), and select Metals. The trip blank was analyzed for VOCs only. A duplicate pair was included in this SDG: MW-20 / DUP-3.

The samples were collected by Tetra Tech NUS on May 5 and 6, 2001 and analyzed by Accura Analytical Laboratory. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW-846 Method 8260B (VOCs), EPA Method 504.1 (EDB), SW-846 method 8270C (SVOCs), SW-846 method 8310 (PAHs), FL-PRO (TRPHs), and SW-846 6010B (select Metals) analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- Data Completeness
- * Holding Times
- Laboratory method/field quality control blank results
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

Note : There are two sets of data for the Volatiles portion of this SDG. Originally, the compounds reported did not match those requested in the Statement of Work so the data had to be resubmitted with different compounds. The Volatiles spreadsheet for the SDG contains data from both submittals.

Due to matrix interference, several samples had to be diluted for Semivolatile and PAH analysis. Therefore, it is possible that not all detection limits were achieved.

Volatile and EDB Fractions

Lab Blank Analysis

Samples Affected: DUP-3, MW-20, and MW-8 (Toluene only)

Analyte	Maximum Concentration (ug/L)	Action Limit (ug/L)
Chloromethane	0.64	3.2
Toluene	2.1	10.5
Methylene Chloride	5.6	28

An action level of 5x the maximum concentration has been used to evaluate the sample for contamination in laboratory method and field quality control blanks. Dilution factors and sample aliquots were taken into consideration when evaluating for blank contamination. Positive results < the action level were qualified as nondetects (U) as a result of blank contamination.

All other quality control criteria were met for this fraction.

Note: Naphthalene was reported in exceedance of calibration, but it is reported within range in the PAH fraction.

Semivolatile Fraction

All quality control criteria were met for this fraction.

Polycyclic Aromatic Hydrocarbon Fraction

All quality control criteria were met for this fraction.

Total Residual Petroleum Fraction

All quality control criteria were met for this fraction.

Metals Fraction

All quality control criteria were met for this fraction.

Duplicate Sample Analysis

	MW-20 (ug/L)	DUP-3 (ug/L)	%RPD
1,2,4-trimethylbenzene	2.9	3.9	29
1,3,5-trimethylbenzene	3.7	4.1	10
4-isopropyltoluene	2.2	2	9.5
Benzene	19	17	11
Ethylbenzene	55	51	7.5
Isopropylbenzene	8.4	7.6	10
n-propylbenzene	13	12	8
Naphthalene(VOCs)	190	210	10
sec-butylbenzene	3.7	3.4	8.5
tert-butylbenzene	0.8	0.69	15
2-methylnaphthalene(SVOCs)	160	160	0

Naphthalene(SVOCs)	130	120	8
1-methylnaphthalene(PAHs)	110	110	0
2-methylnaphthalene(PAHs)	160	170	6.1
Acenaphthene	9.8	9.6	2.1
Fluorene	13	14	7.4
Naphthalene(PAHs)	130	130	0
Phenanthrene	8.9	9	1.1
TRPH	26 mg/L	29 mg/L	11
Chromium	0.0025 mg/L	0.0023 mg/L	8.3

No qualifications were made due to duplicate sample analysis.

Executive Summary

Laboratory performance: Positive results for toluene less than the action level were qualified as nondetects (U) as a result of blank contamination for samples DUP-3, MW-20, and MW-8.

Other factors affecting data quality: No other factors affected data quality.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines "Navy Installation Restoration Chemical Data Quality Manual" (September, 1999). The text of the report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Suzanne I. Smith
Project Chemist
Tetra Tech NUS, Inc.

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

this is the data used to correct the EDD + make tables

SAMPLE NUMBER:		→ DUP-3			no ↓ EB-2			MW-16			MW-2		
SAMPLE DATE:		→ 05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:		AC13009			AC13008			AC13001			AC13007		
QC_TYPE:		NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:		0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:		UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:		MW-20											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE •	2.5 ~~8~~	U •		~~8~~ 2.5	U		~~8~~ 2.5	U		~~8~~ 2.5	U	
1,1,1-TRICHLOROETHANE	1.0 ~~4~~	U		~~4~~ 1.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U	
1,1,2,2-TETRACHLOROETHANE	1.0 ~~2~~	U		~~2~~ 1.0	U		~~2~~	U		~~2~~	U	
1,1,2-TRICHLOROETHANE	1.0 ~~5~~	U		~~5~~ 1.0	U		~~5~~	U		~~5~~	U	
1,1-DICHLOROETHANE	1.0 ~~2~~	U		~~2~~ 1.0	U		~~2~~	U		~~2~~	U	
1,1-DICHLOROETHENE	1.0 ~~6~~	U		~~6~~ 1.0	U		~~6~~ ↓	U		~~6~~ ↓	U	
1,2,3-TRICHLOROBENZENE •	1.5 ~~2~~	U •		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2,3-TRICHLOROPROPANE •	16	U •		16 •	U		16 •	U		16 •	U	
1,2,4-TRICHLOROBENZENE •	2	U •		2 •	U		2 •	U		2 •	U	
[redacted]				~~8~~ 6.5	U		[redacted]			~~8~~ 6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE •	13 •	U		13 •	U		13 •	U		~~18~~ ~~16~~ 13	U	
1,2-DIBROMOETHANE	~~3~~ 0.05	U		~~3~~ 0.05	U		~~3~~ 0.05	U		~~3~~ 0.05	U	
1,2-DICHLOROBENZENE •	1.5 ~~2~~	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
1,2-DICHLOROETHANE	1.0 ~~8~~	U		~~8~~ 1.0	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
1,2-DICHLOROPROPANE	1.0 ~~2~~	U		~~2~~ 1.0	U		~~2~~ 1.0	U		~~2~~ 1.0	U	
[redacted]			✓	~~3~~ 2.5	U		~~3~~ 2.5	U		~~3~~ 2.5	U	
1,3-DICHLOROBENZENE •	6 •	U		6 •	U		6 •	U		6 •	U	
1,3-DICHLOROPROPANE •	2 •	U		2 •	U		2 •	U		2 •	U	
1,4-DICHLOROBENZENE •	1.5 ~~2~~	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
2,2-DICHLOROPROPANE •	17.5 ~~18~~	U		~~18~~ 17.5	U		~~18~~ 17.5	U		~~18~~ 17.5	U	
2-CHLOROETHYL VINYL ETHER	10 •	U		10 •	U		10 •	U		10 •	U	
2-CHLOROTOLUENE •	2 •	U		2 •	U		2 •	U		2 •	U	
4-CHLOROTOLUENE •	3 •	U		3 •	U		3 •	U		3 •	U	
[redacted]				6 •	U		[redacted]			6 •	U	
ACROLEIN	10 •	U		10 •	U		10 •	U		10 •	U	
ACRYLONITRILE	10 •	U		10 •	U		10 •	U		10 •	U	
[redacted]			✓	1 •	U		[redacted]			1	U	
BROMOBENZENE •	1.5 ~~2~~	U		~~2~~ 1.5	U		~~2~~ 1.5	U		~~2~~ 1.5	U	
BROMOCHLOROMETHANE •	2 •	U		2 •	U		2 •	U		2 •	U	
BROMODICHLOROMETHANE	1.0 ~~4~~	U		~~4~~ 1.0	U		~~4~~ 1.0	U		~~4~~ 1.0	U	
BROMOFORM	1.0 ~~8~~	U		~~8~~ 1.0	U		~~8~~	U		~~8~~	U	
BROMOMETHANE	1.0 ~~8~~	U		~~8~~ 1.0	U		~~8~~ ↓	U		~~8~~ ↓	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLOROBENZENE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLORODIBROMOMETHANE *	2.5	U		2.5	U		2.5	U		2.5	U	
CHLOROETHANE *	5.	U		5.	U		5.	U		5.	U	
CHLOROFORM	1.0	U		1.0	U		1.0	U		1.0	U	
[redacted]							1.0	U		1.0	U	
CIS-1,2-DICHLOROETHENE *	6.	U		6.	U		6.	U		6.	U	
DIBROMOMETHANE *	12.	U		12.	U		12.	U		12.	U	
DICHLORODIFLUOROMETHANE *	5.	U		5.	U		5.	U		5.	U	
ETHYLBENZENE	51			1.0	U		[redacted]			1.0	U	
HEXACHLOROBUTADIENE *	5.5	U		5.5	U		5.5	U		5.5	U	
ISOPROPYLBENZENE *	7.6			2.5	U		[redacted]			2.5	U	
[redacted]				[redacted]			5.0	U		5.0	U	
N-BUTYLBENZENE *	5.5	U		5.5	U		5.5	U		5.5	U	
N-PROPYLBENZENE *	12.			2.	U		[redacted]			2.	U	
[redacted]				2.	U		[redacted]			2.	U	
[redacted]				[redacted]			[redacted]			6.5	U	
STYRENE *	2.	U		2.	U		2.	U		2.	U	
[redacted]				[redacted]			[redacted]			7.	U	
TETRACHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
[redacted]				[redacted]			1.0	U		1.0	U	
TOTAL XYLENES	2.	U		2.0	U		2.0	U		2.0	U	
TRANS-1,2-DICHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TRANS-1,3-DICHLOROPROPENE *	5.	U		5.	U		5.	U		5.	U	
TRICHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TRICHLOROFLUOROMETHANE *	4.	U		4.	U		4.	U		4.	U	
VINYL CHLORIDE	1.0	U		1.0	U		1.0	U		1.0	U	
~~cis~~-1,3-Dichloropropene	1.0	U		1.0	U		1.0	U		1.0	U	
Methyl-tert-butyl ether	12			10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	2.5	U		2.5	U		2.5	U		2.5	U	
1,1,1-TRICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,1,2,2-TETRACHLOROETHANE		U			U			U			U	
1,1,2-TRICHLOROETHANE		U			U			U			U	
1,1-DICHLOROETHANE		U			U			U			U	
1,1-DICHLOROETHENE		U			U			U			U	
1,2,3-TRICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2,3-TRICHLOROPROPANE	16	U		16	U		16	U		16	U	
1,2,4-TRICHLOROBENZENE	2	U		2	U		2	U		2	U	
[redacted]				6.5	U		6.5	U		6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	13	U		13	U		13	U		13	U	
1,2-DIBROMOETHANE	0.05	U		0.05	U		0.05	U		0.05	U	
1,2-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
1,2-DICHLOROETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,2-DICHLOROPROPANE	1.0	U		1.0	U		1.0	U		1.0	U	
1,3,5-TRIMETHYLBENZENE	[redacted]			2.5	U		2.5	U		2.5	U	
1,3-DICHLOROBENZENE	6	U		6	U		6	U		6	U	
1,3-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
1,4-DICHLOROBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
2,2-DICHLOROPROPANE	17.5	U		17.5	U		17.5	U		17.5	U	
2-CHLOROETHYL VINYL ETHER	10	U		10	U		10	U		10	U	
2-CHLOROTOLUENE	2	U		2	U		2	U		2	U	
4-CHLOROTOLUENE	3	U		3	U		3	U		3	U	
[redacted]				6	U		6	U		6	U	
ACROLEIN	10	U		10	U		10	U		10	U	
ACRYLONITRILE	10	U		10	U		10	U		10	U	
BENZENE	[redacted]			1	U		1	U		1	U	
BROMOBENZENE	1.5	U		1.5	U		1.5	U		1.5	U	
BROMOCHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMODICHLOROMETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
BROMOFORM		U			U			U			U	
BROMOMETHANE		U			U			U			U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CARBON TETRACHLORIDE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLOROBENZENE	1.0	U		1.0	U		1.0	U		1.0	U	
CHLORODIBROMOMETHANE	2.5	U		2.5	U		2.5	U		2.5	U	
CHLOROETHANE	5.	U		5.	U		5.	U		5.	U	
CHLOROFORM	1.0	U		1.0	U		1.0	U		1.0	U	
CHLOROMETHANE	1.0	U		1.0	U		1.0	U		1.0	U	
CIS-1,2-DICHLOROETHENE	6.	U					6.	U		6.	U	
DIBROMOMETHANE	12.	U		12.	U		12.	U		12.	U	
DICHLORODIFLUOROMETHANE	5.	U		5.	U		5.	U		5.	U	
ETHYLBENZENE				1.0	U		2			1.0	U	
HEXACHLOROBUTADIENE	5.5	U		5.5	U		5.5	U		5.5	U	
ISOPROPYLBENZENE	8.4.			2.5	U					2.5	U	
METHYLENE CHLORIDE	5.0	U		5.0	U		5.0	U		5.0	U	
N-BUTYLBENZENE	5.5	U		5.5	U		5.5	U		5.5	U	
N-PROPYLBENZENE				2.	U		2.	U		2.	U	
NAPHTHALENE				2.	U					2.	U	
[redacted]				6.5	U					6.5	U	
STYRENE	2.	U		2.	U		2.	U		2.	U	
[redacted]				7.	U					.	U	
TETRACHLOROETHENE	1.0	U		1.0	U		1.0	U		1.0	U	
TOLUENE	1.0 ~~0.56~~	U	B	1.0	U		1.0	U		1.0	U	
TOTAL XYLENES	2.0	U		2.0	U		2.0	U		2.0	U	
TRANS-1,2-DICHLOROETHENE	1.0	U					1.0	U		1.0	U	
TRANS-1,3-DICHLOROPROPENE	5.	U		5.	U		5.	U		5.	U	
TRICHLOROETHENE	1.0	U					1.0	U		1.0	U	
TRICHLOROFLUOROMETHANE	4.	U		4.	U		4.	U		4.	U	
VINYL CHLORIDE	1.0	U					1.0	U		1.0	U	
~~cis~~ 1,3-Dichloropropene	1.0	U		1.0	U		1.0	U		1.0	U	
methyl tert-butyl ether	13			10	U		10	U		10	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			TB27818			/ /			/ /		
SAMPLE DATE:	05/05/01			05/05/01								
LABORATORY ID:	AC13002			AC13010								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1,2-TETRACHLOROETHANE	~~2~~ 2.5	U		~~2~~ 2.5	U							
1,1,1-TRICHLOROETHANE	~~1~~ 1.0	U		~~1~~ 1.0	U							
1,1,2,2-TETRACHLOROETHANE	~~2~~ ↓	U		~~2~~ ↓	U							
1,1,2-TRICHLOROETHANE	~~2~~ ↓	U		~~2~~ ↓	U							
1,1-DICHLOROETHANE	~~2~~ ↓	U		~~2~~ ↓	U							
1,1-DICHLOROETHENE	~~1~~ ↓	U		~~1~~ ↓	U							
1,2,3-TRICHLOROBENZENE	~~2~~ 1.5	U		~~2~~ 1.5	U							
1,2,3-TRICHLOROPROPANE	16•	U		16•	U							
1,2,4-TRICHLOROBENZENE	2 •	U		2 •	U							
[redacted]				~~2~~ 6.5	U							
1,2-DIBROMO-3-CHLOROPROPANE	13 •	U		13•	U							
1,2-DIBROMOETHANE	~~2~~ 0.05	U		~~2~~	~~U~~	← not analyzed for this parameter						
1,2-DICHLOROBENZENE	~~2~~ 1.5	U		~~2~~ 1.5	U							
1,2-DICHLOROETHANE	~~2~~ 1.0	U		~~2~~ 1.0	U							
1,2-DICHLOROPROPANE	~~2~~ 1.0	U		2 ↓	U							
1,3,5-TRIMETHYLBENZENE	[redacted]			~~2~~ 2.5	U							
1,3-DICHLOROBENZENE	6 •	U		6 •	U							
1,3-DICHLOROPROPANE	2 •	U		2•	U							
1,4-DICHLOROBENZENE	~~2~~ 1.5	U		~~2~~ 1.5	U							
2,2-DICHLOROPROPANE	~~18~~ 17.5	U		~~18~~ 17.5	U							
2-CHLOROETHYL VINYL ETHER	10•	U		10•	U							
2-CHLOROTOLUENE	2 •	U		2 •	U							
4-CHLOROTOLUENE	3 •	U		3 •	U							
[redacted]				6 •	U							
ACROLEIN	10 •	U		10 •	U							
ACRYLONITRILE	10 •	U		10 •	U							
BENZENE	[redacted]			1 •	U							
BROMOBENZENE	~~2~~ 1.5	U		~~2~~ 1.5	U							
BROMOCHLOROMETHANE	2•	U		2•	U							
BROMODICHLOROMETHANE	~~1~~ 1.0	U		~~1~~ 1.0	U							
BROMOFORM	~~1~~ ↓	U		~~1~~ ↓	U							
BROMOMETHANE	~~1~~ ↓	U		~~1~~ ↓	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			TB27818			/ /			/ /		
SAMPLE DATE:	05/05/01			05/05/01								
LABORATORY ID:	AC13002			AC13010								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
CARBON TETRACHLORIDE	1.0	U		1.0	U							
CHLOROBENZENE	1.0	U		↓	U							
CHLORODIBROMOMETHANE	2.5	U		2.5	U							
CHLOROETHANE	5.	U		5.	U							
CHLOROFORM	1.0	U		1.0	U							
CHLOROMETHANE	1.0	U		1.0	U							
CIS-1,2-DICHLOROETHENE	6.	U		6.	U							
DIBROMOMETHANE	12.	U		12.	U							
DICHLORODIFLUOROMETHANE	5.	U		5.	U							
ETHYLBENZENE				1.0	U							
HEXACHLOROBUTADIENE	5.5	U		5.5	U							
ISOPROPYLBENZENE				2.5	U							
METHYLENE CHLORIDE	5.0	U		~~5.0 U~~ 5.6								
N-BUTYLBENZENE	5.5	U		5.5	U							
N-PROPYLBENZENE				2.	U							
NAPHTHALENE				2.	U							
SEC-BUTYLBENZENE	6.5	U		6.5	U							
STYRENE	2.	U		2.	U							
TERT-BUTYLBENZENE	7.	U		7.	U							
TETRACHLOROETHENE	1.0	U		1.0	U							
TOLUENE	1.3	U	B									
TOTAL XYLENES				2.0	U							
TRANS-1,2-DICHLOROETHENE	1.0	U		1.0	U							
TRANS-1,3-DICHLOROPROPENE	5.	U		5.	U							
TRICHLOROETHENE	1.0	U		1.0	U							
TRICHLOROFLUOROMETHANE	4.	U		4.	U							
VINYL CHLORIDE	1.0	U		1.0	U							
~~cis~~ 1,3-Dichloropropene	1.0	U		1.0	U							
Methyl tert-butyl ether	11			10	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	100	U		10	U		10	U		50	U	
1,2-DICHLOROBENZENE	100	U		10	U		10	U		50	U	
1,3-DICHLOROBENZENE	100	U		10	U		10	U		50	U	
1,4-DICHLOROBENZENE	100	U		10	U		10	U		50	U	
2,4,5-TRICHLOROPHENOL	500	U		50	U		50	U		250	U	
2,4,6-TRICHLOROPHENOL	100	U		10	U		10	U		50	U	
2,4-DICHLOROPHENOL	100	U		10	U		10	U		50	U	
2,4-DIMETHYLPHENOL	100	U		10	U		10	U		50	U	
2,4-DINITROPHENOL	500	U		50	U		50	U		250	U	
2,4-DINITROTOLUENE	100	U		10	U		10	U		50	U	
2,6-DINITROTOLUENE	100	U		10	U		10	U		50	U	
2-CHLORONAPHTHALENE	100	U		10	U		10	U		50	U	
2-CHLOROPHENOL	100	U		10	U		10	U		50	U	
2-METHYLNAPHTHALENE	160 •			10	U		87 •			39 •	J	P
2-METHYLPHENOL	100	U		10	U		10	U		50	U	
2-NITROANILINE	500	U		50	U		50	U		250	U	
2-NITROPHENOL	100	U		10	U		10	U		50	U	
3,3'-DICHLOROBENZIDINE	200	U		20	U		20	U		100	U	
3-NITROANILINE	500	U		50	U		50	U		250	U	
4,6-DINITRO-2-METHYLPHENOL	500	U		50	U		50	U		250	U	
4-BROMOPHENYL PHENYL ETHER	100	U		10	U		10	U		50	U	
4-CHLORO-3-METHYLPHENOL	200	U		20	U		20	U		100	U	
4-CHLOROANILINE	200	U		20	U		20	U		100	U	
4-CHLOROPHENYL PHENYL ETHER	100	U		10	U		10	U		50	U	
4-NITROANILINE	500	U		50	U		50	U		250	U	
4-NITROPHENOL	500	U		50	U		~~60~~ 3.3	~~U~~ J	P	16 •	J	P
ACENAPHTHENE	100	U		10	U		6	J	P	50	U	
ACENAPHTHYLENE	100	U		10	U		10	U		50	U	
ANTHRACENE	100	U		10	U		10	U		50	U	
BENZIDINE	100	U		10	U		10	U		50	U	
BENZO(A)ANTHRACENE	100	U		10	U		10	U		50	U	
BENZO(A)PYRENE	100	U		10	U		10	U		50	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	100	U		10	U		10	U		50	U	
BENZO(G,H,I)PERYLENE	100	U		10	U		10	U		50	U	
BENZO(K)FLUORANTHENE	100	U		10	U		~~10~~ 1.1	~~U~~ J	P	50	U	
BENZOIC ACID	500	U		50	U		50	U		250	U	
BENZYL ALCOHOL	200	U		20	U		20	U		100	U	
BIS(2-CHLOROETHOXY)METHANE	100	U		10	U		10	U		50	U	
BIS(2-CHLOROETHYL)ETHER	100	U		10	U		10	U		50	U	
BIS(2-CHLOROISOPROPYL)ETHER	100	U		10	U		10	U		50	U	
BIS(2-ETHYLHEXYL)PHTHALATE	100	U		10	U		10	U		50	U	
BUTYL BENZYL PHTHALATE	100	U		10	U		10	U		50	U	
CARBAZOLE	100	U		10	U		10	U		50	U	
CHRYSENE	100	U		10	U		10	U		50	U	
DI-N-BUTYL PHTHALATE	100	U		10	U		10	U		50	U	
DI-N-OCTYL PHTHALATE	100	U		10	U		10	U		50	U	
DIBENZO(A,H)ANTHRACENE	100	U		10	U		10	U		50	U	
DIBENZOFURAN	100	U		10	U		5.7 •	J	P	50	U	
DIETHYL PHTHALATE	100	U		10	U		10	U		50	U	
DIMETHYL PHTHALATE	100	U		10	U		10	U		50	U	
FLUORANTHENE	100	U		10	U		10	U		50	U	
FLUORENE	100	U		10	U		9 •	J	P	50	U	
HEXACHLOROBENZENE	100	U		10	U		10	U		50	U	
HEXACHLOROBUTADIENE	100	U		10	U		10	U		50	U	
HEXACHLOROCYCLOPENTADIENE	100	U		10	U		10	U		50	U	
HEXACHLOROETHANE	100	U		10	U		10	U		50	U	
INDENO(1,2,3-CD)PYRENE	100	U		10	U		10	U		50	U	
ISOPHORONE	100	U		10	U		10	U		50	U	
N-NITROSO-DI-N-PROPYLAMINE	100	U		10	U		10	U		50	U	
N-NITROSODIMETHYLAMINE	100	U		10	U		10	U		50	U	
N-NITROSODIPHENYLAMINE	100	U		10	U		10	U		50	U	
NAPHTHALENE	120 •			10	U		52 •			62 •		
NITROBENZENE	100	U		10	U		10	U		50	U	
PENTACHLOROPHENOL	500	U		50	U		50	U		250	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PHENANTHRENE	100	U		10	U		10	U		50	U	
PHENOL	100	U		10	U		10	U		7.1 •	J	P
~~PHOSPHORUS, TOTAL AS P~~ 3+4-methylphenol	200	U		20	U		20	U		39 •	J	P
PYRENE	100	U		10	U		10	U		50	U	
1,2-Diphenylhydrazine (azobenzene)	100	U		10	U		10	U		50	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D ✓			MW-5 ✓			MW-6 ✓		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	100	U		10	U		100	U		100	U	
1,2-DICHLOROBENZENE	100	U		10	U		100	U		100	U	
1,3-DICHLOROBENZENE	100	U		10	U		100	U		100	U	
1,4-DICHLOROBENZENE	100	U		10	U		100	U		100	U	
2,4,5-TRICHLOROPHENOL	500	U		50	U		500	U		500	U	
2,4,6-TRICHLOROPHENOL	100	U		10	U		100	U		100	U	
2,4-DICHLOROPHENOL	100	U		10	U		100	U		100	U	
2,4-DIMETHYLPHENOL	100	U		10	U		100	U		100	U	
2,4-DINITROPHENOL	500	U		50	U		500	U		500	U	
2,4-DINITROTOLUENE	100	U		10	U		100	U		100	U	
2,6-DINITROTOLUENE	100	U		10	U		100	U		100	U	
2-CHLORONAPHTHALENE	100	U		10	U		100	U		100	U	
2-CHLOROPHENOL	100	U		10	U		100	U		100	U	
2-METHYLNAPHTHALENE	160			10	U		100	U		100	U	
2-METHYLPHENOL	100	U		10	U		100	U		100	U	
2-NITROANILINE	500	U		50	U		500	U		500	U	
2-NITROPHENOL	100	U		10	U		100	U		100	U	
3,3'-DICHLOROBENZIDINE	200	U		20	U		200	U		200	U	
3-NITROANILINE	500	U		50	U		500	U		500	U	
4,6-DINITRO-2-METHYLPHENOL	500	U		50	U		500	U		500	U	
4-BROMOPHENYL PHENYL ETHER	100	U		10	U		100	U		100	U	
4-CHLORO-3-METHYLPHENOL	200	U		20	U		200	U		200	U	
4-CHLOROANILINE	200	U		20	U		200	U		200	U	
4-CHLOROPHENYL PHENYL ETHER	100	U		10	U		100	U		100	U	
4-NITROANILINE	500	U		50	U		500	U		500	U	
4-NITROPHENOL	500	U		50	U		500	U		500	U	
ACENAPHTHENE	100	U		10	U		100	U		100	U	
ACENAPHTHYLENE	100	U		10	U		100	U		100	U	
ANTHRACENE	100	U		10	U		100	U		100	U	
BENZIDINE	100	U		10	U		100	U		100	U	
BENZO(A)ANTHRACENE	100	U		10	U		100	U		100	U	
BENZO(A)PYRENE	100	U		10	U		100	U		100	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	100	U		10	U		100	U		100	U	
BENZO(G,H,I)PERYLENE	100	U		10	U		100	U		100	U	
BENZO(K)FLUORANTHENE	100	U		10	U		100	U		100	U	
BENZOIC ACID	500	U		50	U		500	U		500	U	
BENZYL ALCOHOL	200	U		20	U		200	U		200	U	
BIS(2-CHLOROETHOXY)METHANE	100	U		10	U		100	U		100	U	
BIS(2-CHLOROETHYL)ETHER	100	U		10	U		100	U		100	U	
BIS(2-CHLOROISOPROPYL)ETHER	100	U		10	U		100	U		100	U	
BIS(2-ETHYLHEXYL)PHTHALATE	100	U		10	U		100	U		100	U	
BUTYL BENZYL PHTHALATE	100	U		10	U		100	U		100	U	
CARBAZOLE	100	U		10	U		100	U		100	U	
CHRYSENE	100	U		10	U		100	U		100	U	
DI-N-BUTYL PHTHALATE	100	U		10	U		100	U		100	U	
DI-N-OCTYL PHTHALATE	100	U		10	U		100	U		100	U	
DIBENZO(A,H)ANTHRACENE	100	U		10	U		100	U		100	U	
DIBENZOFURAN	100	U		10	U		100	U		100	U	
DIETHYL PHTHALATE	100	U		10	U		100	U		100	U	
DIMETHYL PHTHALATE	100	U		10	U		100	U		100	U	
FLUORANTHENE	100	U		10	U		100	U		100	U	
FLUORENE	100	U		10	U		100	U		100	U	
HEXACHLOROBENZENE	100	U		10	U		100	U		100	U	
HEXACHLOROBUTADIENE	100	U		10	U		100	U		100	U	
HEXACHLOROCYCLOPENTADIENE	100	U		10	U		100	U		100	U	
HEXACHLOROETHANE	100	U		10	U		100	U		100	U	
INDENO(1,2,3-CD)PYRENE	100	U		10	U		100	U		100	U	
ISOPHORONE	100	U		10	U		100	U		100	U	
N-NITROSO-DI-N-PROPYLAMINE	100	U		10	U		100	U		100	U	
N-NITROSODIMETHYLAMINE	100	U		10	U		100	U		100	U	
N-NITROSODIPHENYLAMINE	100	U		10	U		100	U		100	U	
NAPHTHALENE	130*			10	U		100	U		100	U	
NITROBENZENE	100	U		10	U		100	U		100	U	
PENTACHLOROPHENOL	500	U		50	U		500	U		500	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PHENANTHRENE	100	U		10	U		100	U		100	U	
PHENOL	100	U		10	U		100	U		100	U	
~~PHOSPHORUS, TOTAL AS P~~ 3+4-Methylphenol	200	U		20	U		200	U		200	U	
PYRENE	100	U		10	U		100	U		100	U	
1,2-Diphenylhydrazine (azobenzene)	100	U		10	U		100	U		100	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8 ✓			/ /			/ /			/ /		
SAMPLE DATE:	05/05/01											
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	10	U										
1,2-DICHLOROBENZENE	10	U										
1,3-DICHLOROBENZENE	10	U										
1,4-DICHLOROBENZENE	10	U										
2,4,5-TRICHLOROPHENOL	50	U										
2,4,6-TRICHLOROPHENOL	10	U										
2,4-DICHLOROPHENOL	10	U										
2,4-DIMETHYLPHENOL	10	U										
2,4-DINITROPHENOL	50	U										
2,4-DINITROTOLUENE	10	U										
2,6-DINITROTOLUENE	10	U										
2-CHLORONAPHTHALENE	10	U										
2-CHLOROPHENOL	10	U										
2-METHYLNAPHTHALENE	10	U										
2-METHYLPHENOL	10	U										
2-NITROANILINE	50	U										
2-NITROPHENOL	10	U										
3,3'-DICHLOROBENZIDINE	20	U										
3-NITROANILINE	50	U										
4,6-DINITRO-2-METHYLPHENOL	50	U										
4-BROMOPHENYL PHENYL ETHER	10	U										
4-CHLORO-3-METHYLPHENOL	20	U										
4-CHLOROANILINE	20	U										
4-CHLOROPHENYL PHENYL ETHER	10	U										
4-NITROANILINE	50	U										
4-NITROPHENOL	50	U										
ACENAPHTHENE	10	U										
ACENAPHTHYLENE	10	U										
ANTHRACENE	10	U										
BENZIDINE	10	U										
BENZO(A)ANTHRACENE	10	U										
BENZO(A)PYRENE	10	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(B)FLUORANTHENE	10	U										
BENZO(G,H,I)PERYLENE	10	U										
BENZO(K)FLUORANTHENE	10	U										
BENZOIC ACID	50	U										
BENZYL ALCOHOL	20	U										
BIS(2-CHLOROETHOXY)METHANE	10	U										
BIS(2-CHLOROETHYL)ETHER	10	U										
BIS(2-CHLOROISOPROPYL)ETHER	10	U										
BIS(2-ETHYLHEXYL)PHTHALATE	10	U										
BUTYL BENZYL PHTHALATE	10	U										
CARBAZOLE	10	U										
CHRYSENE	10	U										
DI-N-BUTYL PHTHALATE	10	U										
DI-N-OCTYL PHTHALATE	10	U										
DIBENZO(A,H)ANTHRACENE	10	U										
DIBENZOFURAN	10	U										
DIETHYL PHTHALATE	10	U										
DIMETHYL PHTHALATE	10	U										
FLUORANTHENE	10	U										
FLUORENE	10	U										
HEXACHLOROBENZENE	10	U										
HEXACHLOROBUTADIENE	10	U										
HEXACHLOROCYCLOPENTADIENE	10	U										
HEXACHLOROETHANE	10	U										
INDENO(1,2,3-CD)PYRENE	10	U										
ISOPHORONE	10	U										
N-NITROSO-DI-N-PROPYLAMINE	10	U										
N-NITROSODIMETHYLAMINE	10	U										
N-NITROSODIPHENYLAMINE	10	U										
NAPHTHALENE	10	U										
NITROBENZENE	10	U										
PENTACHLOROPHENOL	50	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PHENANTHRENE	10	U										
PHENOL	10	U										
~~PHOSPHORUS, TOTAL AS P~~ 3+4-Methylphenol	20	U										
PYRENE	10	U										
1,2-Diphenylhydrazine (azobenzene)	10	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	29 •			~~0.05~~ 1	~~J~~ U		5.4 •			~~0.5~~ 1.0	~~J~~ U	
	29,000						5,400					

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	26 •			~~0.45~~ 1.0 ~~J~~ U			6.1 •			10 •		
	26,000						6,100			10,000		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	16 •											
	16,000											

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/06/01			05/06/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.00039	U		0.00039	U		0.00039	U		0.00039	U	
CHROMIUM	0.0023	J	P	0.0012	U		0.0012	U		0.0016	J	P
LEAD	0.0038	U		0.0038	U		0.0038	U		0.0035	U	

2.3 J

1.6 J

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27618

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/06/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13002			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U		0.0052	U		0.0052	U		0.0052	U	
CADMIUM	0.00039	U		0.00039	U		0.00039	U		0.00039	U	
CHROMIUM	0.0025	J	P	0.0013	J	P	0.0016	J	P	0.0015	J	P
LEAD	0.0036	U		0.0036	U		0.0036	U		0.0036	U	
	2.5 J			1.3 J			1.6 J			1.5 J		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			//			//			//		
SAMPLE DATE:	05/05/01											
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.0052	U										
CADMIUM	0.00039	U										
CHROMIUM	0.0028	J	P									
LEAD 0.007	~~0.01~~	J	P									

2.8 J
7.1 J

27818

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-3	AC13009	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	EB-2	AC13008	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-16	AC13001	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-2	AC13007	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	MW-20	AC13006	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	MW-24D	AC13004	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-5	AC13003	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-6	AC13005	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-8	AC13002	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
MG/L	DUP-3	AC13009	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	EB-2	AC13008	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-16	AC13001	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-2	AC13007	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	MW-20	AC13006	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	MW-24D	AC13004	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-5	AC13003	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-6	AC13005	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-8	AC13002	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
UG/L	DUP-3	AC13009	NORMAL	27818	OS	05/06/01	05/11/01	05/16/01	5	5	10
UG/L	EB-2	AC13008	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-16	AC13001	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-2	AC13007	NORMAL	27818	OS	05/06/01	05/11/01	05/17/01	5	6	11
UG/L	MW-20	AC13006	NORMAL	27818	OS	05/06/01	05/11/01	05/16/01	5	5	10
UG/L	MW-24D	AC13004	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-5	AC13003	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-6	AC13005	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-8	AC13002	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	DUP-3	AC13009	NORMAL	27818	OV	05/06/01	05/14/01	05/14/01	8	0	8
UG/L	EB-2	AC13008	NORMAL	27818	OV	05/05/01	05/16/01	05/16/01	11	0	11
UG/L	MW-16	AC13001	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-2	AC13007	NORMAL	27818	OV	05/06/01	05/16/01	05/16/01	10	0	10
UG/L	MW-20	AC13006	NORMAL	27818	OV	05/06/01	05/14/01	05/14/01	8	0	8
UG/L	MW-24D	AC13004	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-5	AC13003	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-6	AC13005	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-8	AC13002	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	TRIP BLANK	AC13010	NORMAL	27818	OV	05/05/01	05/16/01	05/16/01	11	0	11
UG/L	DUP-3	AC13009	NORMAL	27818	PAH	05/06/01	05/11/01	05/21/01	5	10	15
UG/L	EB-2	AC13008	NORMAL	27818	PAH	05/05/01	05/11/01	05/21/01	6	10	16
UG/L	MW-16	AC13001	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-2	AC13007	NORMAL	27818	PAH	05/06/01	05/11/01	05/22/01	5	11	16
UG/L	MW-20	AC13006	NORMAL	27818	PAH	05/06/01	05/11/01	05/21/01	5	10	15
UG/L	MW-24D	AC13004	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-5	AC13003	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-6	AC13005	NORMAL	27818	PAH	05/05/01	05/11/01	05/21/01	6	10	16
UG/L	MW-8	AC13002	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
MG/L	DUP-3	AC13009	NORMAL	27818	TPH	05/06/01	05/10/01	05/15/01	4	5	9
MG/L	EB-2	AC13008	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-16	AC13001	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-2	AC13007	NORMAL	27818	TPH	05/06/01	05/10/01	05/14/01	4	4	8
MG/L	MW-20	AC13006	NORMAL	27818	TPH	05/06/01	05/10/01	05/15/01	4	5	9
MG/L	MW-24D	AC13004	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	[redacted]			31 1.0	U		[redacted]			[redacted]		
2-METHYLNAPHTHALENE	[redacted]			0.3	U		[redacted]			[redacted]		
ACENAPHTHENE	[redacted]			29	U		[redacted]			[redacted]		
ACENAPHTHYLENE	10 ~~0.2~~	U		0.2	U		0.2 1.0	U		0.2 5.0	U	
ANTHRACENE	~~0.11~~	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	~~0.17~~	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	~~0.21~~	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	~~0.14~~	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	~~0.31~~	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	~~0.29~~	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	~~0.16~~	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	~~0.18~~	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	~~0.2~~	U		0.2	U		0.2	U		0.2	U	
FLUORENE	[redacted]			0.27	U		[redacted]			[redacted]		
INDENO(1,2,3-CD)PYRENE	10 ~~0.25~~	U		0.25	U		~~0.25~~ 1.0	U		~~0.25~~ 5.0	U	
NAPHTHALENE	[redacted]			0.1	U		[redacted]			[redacted]		
PHENANTHRENE	[redacted]			0.16	U		[redacted]			[redacted]		
PYRENE	10 ~~0.26~~	U		0.26	U		~~0.26~~ 1.0	U		~~0.26~~ 5.0	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	[redacted]			0.31 1.0	U		[redacted]			0.31 10	U	
2-METHYLNAPHTHALENE	[redacted]			0.3	U		[redacted]			0.3	U	
ACENAPHTHENE	[redacted]			0.29	U		[redacted]			0.29	U	
ACENAPHTHYLENE	10 0.2	U		0.2	U		0.2 10	U		0.2	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORENE	[redacted]			0.27	U		[redacted]			0.27	U	
INDENO(1,2,3-CD)PYRENE	10 0.25	U		0.25	U		0.25 10	U		0.25	U	
NAPHTHALENE	[redacted]			0.3	U		0.3	U		0.3	U	
PHENANTHRENE	[redacted]			0.26	U		0.26	U		0.26	U	
PYRENE	10 0.28	U		0.28	U		0.28	U		0.28	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	0.31 1.0	U										
2-METHYLNAPHTHALENE	0.3	U										
ACENAPHTHENE	0.29	U										
ACENAPHTHYLENE	0.2	U										
ANTHRACENE	0.11	U										
BENZO(A)ANTHRACENE	0.17	U										
BENZO(A)PYRENE	0.21	U										
BENZO(B)FLUORANTHENE	0.14	U										
BENZO(G,H,I)PERYLENE	0.31	U										
BENZO(K)FLUORANTHENE	0.29	U										
CHRYSENE	0.16	U										
DIBENZO(A,H)ANTHRACENE	0.18	U										
FLUORANTHENE	0.2	U										
FLUORENE	0.27	U										
INDENO(1,2,3-CD)PYRENE	0.25	U										
NAPHTHALENE	0.3	U										
PHENANTHRENE	0.26	U										
PYRENE	0.28	U										

resubmittal for missing SVOCs + VOCs

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13001** **Accura Project #:** **27818**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-16**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	55		1.0
2-Methylnaphthalene	82		1.0
Acenaphthene	6.4		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	8.6		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	53		1.0
Phenanthrene	7.2		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	5.4		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	87		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	3.3	J	50
Acenaphthene	6.0	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	1.1	J	10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-chloroethyl)methane	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	5.7	J	10
Diethylphthalate	<RL		10

Client Sample ID: MW-16 AALSample ID #: AC13001 Accura Project #: 27818

Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10
Fluoranthene	<RL		10
Fluorene	9.0	J	10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Isophorone	<RL		10
Naphthalene	52		10
Nitrobenzene	<RL		10
N-nitrosodimethylamine	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
p-chloro-m-cresol	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1.0
1,1,2,2-Tetrachloroethane	<RL		1.0
1,1,2-Trichloroethane	<RL		1.0
1,1-Dichloroethane	<RL		1.0
1,1-Dichloroethene	<RL		1.0
1,2-Dichloroethane	<RL		1.0
1,2-Dichloropropane	<RL		1.0
1,3-Dichloropropene	<RL		1.0
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	1.0		1.0
Bromodichloromethane	<RL		1.0
Bromoform	<RL		1.0
Bromomethane	<RL		1.0
Carbon tetrachloride	<RL		1.0
Chlorobenzene	<RL		1.0
Chloroform	<RL		1.0
Chloromethane	<RL		1.0
Ethylbenzene	30		1.0
Methyl Bromide	<RL		1.0
Methyl Chloride	<RL		1.0
Methylene chloride	<RL		5.0
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1.0
Toluene	<RL		1.0
trans-1,2-Dichloroethene	<RL		1.0
Trichloroethene	<RL		1.0
Vinyl chloride	<RL		1.0
Xylenes (Total)	<RL		2.0

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	86		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
C(39)	(Range 42-193)	32	Z	
o-Terphenyl	(Range 82-142)	84		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4	(81-132)	92		
4-Bromofluorobenzene	(80-120)	94		
Toluene-d8	(80-119)	96		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	85		
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	29		
Nitrobenzene-d5	(Range 16-125)	70		
Phenol-d6	(Range 9-109)	47		
p-Terphenyl-d14	(Range 5-157)	79		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13002** **Accura Project #:** **27818**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-8**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0028	J	0.050
Lead	0.0071	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	16		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	8.4		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	56		5
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	11		10
Tetrachloroethene	<RL		1
Toluene	1.3		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	26		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	76		
Nitrobenzene-d5	(Range 37-104)	73		
p-Terphenyl-d14	(Range 15-132)	102		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	95		
Toluene-d8 (80-119)	96		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	93		
2-Fluorobiphenyl	(Range 21-122)	80		
2-Fluorophenol	(Range 11-114)	24		
Nitrobenzene-d5	(Range 16-125)	79		
Phenol-d6	(Range 9-109)	52		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13003** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-5**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	11		10
2-Methylnaphthalene	3.1	J	10
Acenaphthene	3.9	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	5.6	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL	100
Di-n-octylphthalate	<RL	100
Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Isophorone	<RL	100
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-nitrosodimethylamine	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	2.0		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	72		
Nitrobenzene-d5	(Range 37-104)	69		
p-Terphenyl-d14	(Range 15-132)	80		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	4.6	Z	
o-Terphenyl (Range 82-142)	91		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	86		
4-Bromofluorobenzene (80-120)	93		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved
LABORATORY REPORT

Accura Sample ID #: **AC13004** **Accura Project #:** **27818**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-24D**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0013	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	<RL	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	0.52	J	1
Trichloroethene	2.3		1
Vinyl chloride	3.2		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	77		
Nitrobenzene-d5	(Range 37-104)	75		
p-Terphenyl-d14	(Range 15-132)	112		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
C(39)	(Range 42-193)	16	Z	
o-Terphenyl	(Range 82-142)	82		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	91		
4-Bromofluorobenzene (80-120)	99		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	92		
2-Fluorobiphenyl	(Range 21-122)	79		
2-Fluorophenol	(Range 11-114)	31		
Nitrobenzene-d5	(Range 16-125)	81		
Phenol-d6	(Range 9-109)	57		
p-Terphenyl-d14	(Range 5-157)	106		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved
LABORATORY REPORT

Accura Sample ID #: **AC13005** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01
Client Contact: WALKER, GERRY Date Received: 5/8/01
Client Project Number: NO547/CTO140 Date Reported: 7/13/01
Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER
Client Sample ID: **MW-6**

ANALYSIS: EDB Method Ref: 504.1
Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0015	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C
Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		10
2-Methylnaphthalene	<RL		10
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO) 10 10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl pht halate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL	100
Di-n-octylphthalate	<RL	100
Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Isophorone	<RL	100
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-nitrosodimethylamine	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	85		
Nitrobenzene-d5	(Range 37-104)	77		
p-Terphenyl-d14	(Range 15-132)	88		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	97		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13006** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/6/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-20**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0025	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	110		10
2-Methylnaphthalene	160		10
Acenaphthene	9.8	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	13		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	130		10
Phenanthrene	8.9	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	160		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Di-n-butylphthalate	<RL	100
Di-n-octylphthalate	<RL	100
Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Isophorone	<RL	100
Naphthalene	130	100
Nitrobenzene	<RL	100
N-nitrosodimethylamine	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	19		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	55		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	13		10
Tetrachloroethene	<RL		1
Toluene	0.56	J	1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	88		
Nitrobenzene-d5	(Range 37-104)	102		
p-Terphenyl-d14	(Range 15-132)	77		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	86		
4-Bromofluorobenzene (80-120)	94		
Toluene-d8 (80-119)	95		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13007** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/6/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-2**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/22/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	35		5.0
2-Methylnaphthalene	40		5.0
Acenaphthene	6.6		5.0
Acenaphthylene	<RL		5.0
Anthracene	<RL		5.0
Benzo(a)anthracene	<RL		5.0
Benzo(a)pyrene	<RL		5.0
Benzo(b)fluoranthene	<RL		5.0
Benzo(g,h,i)perylene	<RL		5.0
Benzo(k)fluoranthene	<RL		5.0
Chrysene	<RL		5.0
Dibenz(a,h)anthracene	<RL		5.0
Fluoranthene	<RL		5.0
Fluorene	6.7		5.0
Indeno(1,2,3-cd)pyrene	<RL		5.0
Naphthalene	64		5.0
Phenanthrene	2.9	J	5.0
Pyrene	<RL		5.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		50
1,2-Dichlorobenzene	<RL		50
1,2-diphenylhydrazine (azobene)	<RL		50
1,3-Dichlorobenzene	<RL		50
1,4-Dichlorobenzene	<RL		50
2,4,5-Trichlorophenol	<RL		250
2,4,6-Trichlorophenol	<RL		50
2,4-Dichlorophenol	<RL		50
2,4-Dimethylphenol	<RL		50
2,4-Dinitrophenol	<RL		250
2,4-Dinitrotoluene	<RL		50
2,6-Dinitrotoluene	<RL		50
2-Chloronaphthalene	<RL		50
2-Chlorophenol	<RL		50
2-Methylnaphthalene	39	J	50
2-Methylphenol	<RL		50
2-Nitroaniline	<RL		250
2-Nitrophenol	<RL		50
3,3'-Dichlorobenzidine	<RL		100
3,4-Methylphenol	39	J	100
3-Nitroaniline	<RL		250
4,6-Dinitro-2-methylphenol	<RL		250
4-Bromophenyl phenyl ether	<RL		50
4-Chloro-3-methylphenol	<RL		100
4-Chloroaniline	<RL		100
4-Chlorophenyl phenyl ether	<RL		50
4-Nitroaniline	<RL		250
4-Nitrophenol	16	J	250
Acenaphthene	<RL		50
Acenaphthylene	<RL		50
Anthracene	<RL		50
Benzidine	<RL		50
Benzo(a)anthracene	<RL		50
Benzo(a)pyrene	<RL		50
Benzo(b)fluoranthene	<RL		50
Benzo(g,h,i)perylene	<RL		50
Benzo(k)fluoranthene	<RL		50
Benzoic acid	<RL		250
Benzyl alcohol	<RL		100
bis(2-Chloroethoxy)methane	<RL		50
bis(2-Chloroethyl)ether	<RL		50
bis(2-Chloroisopropyl)ether	<RL		50
bis(2-Ethylhexyl)phthalate	<RL		50
Butyl benzyl phthalate	<RL		50
Carbazole	<RL		50
Chrysene	<RL		50
Dibenz(a,h)anthracene	<RL		50
Dibenzofuran	<RL		50
Diethylphthalate	<RL		50
Dimethylphthalate	<RL		50

Di-n-butylphthalate	<RL		50
Di-n-octylphthalate	<RL		50
Fluoranthene	<RL		50
Fluorene	<RL		50
Hexachlorobenzene	<RL		50
Hexachlorobutadiene	<RL		50
Hexachlorocyclopentadiene	<RL		50
Hexachloroethane	<RL		50
Indeno(1,2,3-cd)pyrene	<RL		50
Isophorone	<RL		50
Naphthalene	62		50
Nitrobenzene	<RL		50
N-nitrosodimethylamine	<RL		50
N-Nitroso-di-n-propylamine	<RL		50
N-Nitrosodiphenylamine	<RL		50
Pentachlorophenol	<RL		250
Phenanthrene	<RL		50
Phenol	7.1	J	50
Pyrene	<RL		50

ANALYSIS; VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/22/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	72		
Nitrobenzene-d5	(Range 37-104)	74		
p-Terphenyl-d14	(Range 15-132)	64		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	16	Z	
o-Terphenyl (Range 82-142)	85		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	115		
4-Bromofluorobenzene (80-120)	117		
Toluene-d8 (80-119)	118		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	99		
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	17		
Nitrobenzene-d5	(Range 16-125)	66		
Phenol-d6	(Range 9-109)	40		
p-Terphenyl-d14	(Range 5-157)	75		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13008** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **EB-2**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	0.64	J	1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	0.64	J	1
Methylene chloride	1.4	J	5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	0.73	J	1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	79		
Nitrobenzene-d5	(Range 37-104)	70		
p-Terphenyl-d14	(Range 15-132)	107		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	23	Z	
o-Terphenyl (Range 82-142)	78	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	112		
4-Bromofluorobenzene (80-120)	114		
Toluene-d8 (80-119)	112		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	82		
2-Fluorobiphenyl	(Range 21-122)	76		
2-Fluorophenol	(Range 11-114)	51		
Nitrobenzene-d5	(Range 16-125)	74		
Phenol-d6	(Range 9-109)	20		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13009** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/6/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-3**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0023	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	110		10
2-Methylnaphthalene	170		10
Acenaphthene	9.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	14		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	130		10
Phenanthrene	9.0	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,2-diphenylhydrazine (azobene)	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	160		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzidine	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100

Client Sample ID: DUP-3 AALSample ID #: AC13009 Accura Project #: 27818

Di-n-butylphthalate	<RL	100
Di-n-octylphthalate	<RL	100
Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Isophorone	<RL	100
Naphthalene	120	100
Nitrobenzene	<RL	100
N-nitrosodimethylamine	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	17		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	51		5
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	12		10
Tetrachloroethene	<RL		1
Toluene	0.54	J	1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	86		
Nitrobenzene-d5	(Range 37-104)	87		
p-Terphenyl-d14	(Range 15-132)	58		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	79	Z	
4-Bromofluorobenzene (80-120)	88		
Toluene-d8 (80-119)	89		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13010** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 8/23/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **TRIP BLANK**

ANALYSIS: **VOC's - Pensacola(25 ml purge)** Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	5.6		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	2.1		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: **X VOC Sample Surrogates-Waters** Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	109		
4-Bromofluorobenzene (80-120)	115		

Toluene-d8 (80-119)	106

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13011** **Accura Project #:** **27818**

Client: Tetra Tech Nus -Tallahassee Date Sampled: 5/8/01

Client Contact: WALKER, GERRY Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 7/13/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,2-diphenylhydrazine (azobene)	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzidine	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10

Client Sample ID: METHOD BLANK AALSample ID #: AC13011 Accura Project #: 27818

Di-n-butylphthalate	<RL	10
Di-n-octylphthalate	<RL	10
Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Isophorone	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-nitrosodimethylamine	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's - Pensacola(25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		1
1,1,2,2-Tetrachloroethane	<RL		1
1,1,2-Trichloroethane	<RL		1
1,1-Dichloroethane	<RL		1
1,1-Dichloroethene	<RL		1
1,2-Dichloroethane	<RL		1
1,2-Dichloropropane	<RL		1
1,3-Dichloropropene	<RL		1
2-Chloroethylvinyl ether	<RL		10
Acrolein	<RL		10
Acrylonitrile	<RL		10
Benzene	<RL		1
Bromodichloromethane	<RL		1
Bromoform	<RL		1
Bromomethane	<RL		1
Carbon tetrachloride	<RL		1
Chlorobenzene	<RL		1
Chloroform	<RL		1
Chloromethane	<RL		1
Ethylbenzene	<RL		1
Methyl Bromide	<RL		1
Methyl Chloride	<RL		1
Methylene chloride	<RL		5
Methyl-tert-butyl ether (MTBE)	<RL		10
Tetrachloroethene	<RL		1
Toluene	<RL		1
trans-1,2-Dichloroethene	<RL		1
Trichloroethene	<RL		1
Vinyl chloride	<RL		1
Xylenes (Total)	<RL		2

ANALYSIS: X Base Neutral OC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 27-121)	80		
Nitrobenzene-d5	(Range 24-114)	81		
p-Terphenyl-d14	(Range 28-139)	94		

ANALYSIS: X PRO OC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	33	Z	
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC OC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	96		
4-Bromofluorobenzene (81-118)	111		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC OC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 25-127)	83		
2-Fluorobiphenyl	(Range 27-121)	70		
2-Fluorophenol	(Range 24-101)	66		
Nitrobenzene-d5	(Range 24-114)	73		
Phenol-d6	(Range 26-104)	72		
p-Terphenyl-d14	(Range 28-139)	94		

29917

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola, Bldg 1932
Project Number: CTO 140, N0547

For Laboratory Use Only
Cooler Seal: Y N
Page 1 OF 1
COC Seal: Y N
Init Temp: ABL/2°C
Sample Condition:
AAL Lab Project # 27818

Samplers: (signature): Dan Hartnett
Samplers: (printed): Dan Hartnett

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	Pb Cr Cd As	5 VOC	PAHs	FL-PRO				Remarks	Accura Sample ID No. AB-
MW-16	5/5/01 1205		X	W	Y	Bldg 1932	12	3	2	1	2	2	2				Hot	13001
MW 8	5/5/01 1550		X	W	Y	" "	12	3	2	1	2	2	2					13002
MW-5	5/5/01 1400		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13003
MW-24D	5/5/01 1645		X	W	Y	" "	12	3	2	1	2	2	2					13004
6	5/5/01 1220		X	W	Y	Bldg 1932	12	3	2	1	2	2	2					13005
20	5/4/01 1205		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13006
2	5/4/01		X	W	Y	" "	15	3	2	1	3	3	3				MS/MSD	13007
2	5/3/01 1615		X	W	Y	" "	12	3	2	1	2	2	2					13008
MW-3	5/4/01		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13009
Trip Blank				W	Y		2	3										13010

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/7/01 1700	FED EX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
	5-8-01 1015	Arnold Kight	5-8-01 1015	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

use this to correct the highlighted compounds only (these are from the original submittal)

SAMPLE NUMBER:	DUP-3	EB-2	MW-16	MW-2
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/06/01
LABORATORY ID:	AC13009	AC13008	AC13001	AC13007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES													
1,1,1,2-TETRACHLOROETHANE	2.5	0.41	U		0.41 2.5	U		~~0.41~~ 2.5	U		0.41 2.5	U	
1,1,1-TRICHLOROETHANE	4	0.56	U		0.56 4	U		~~0.56~~ 4	U		0.56 4	U	
1,1,2,2-TETRACHLOROETHANE	2	0.42	U		0.42 2	U		~~0.42~~ 2	U		0.42 2	U	
1,1,2-TRICHLOROETHANE	5	0.49	U		0.49 5	U		~~0.49~~ 5	U		0.49 5	U	
1,1-DICHLOROETHANE	2	0.55	U		0.55 2	U		~~0.55~~ 2	U		0.55 2	U	
1,1-DICHLOROETHENE	6	0.61	U		0.61 6	U		~~0.61~~ 6	U		0.61 6	U	
1,2,3-TRICHLOROBENZENE	1.5	0.4	U		0.4 1.5	U		~~0.4~~ 1.5	U		0.4 1.5	U	
1,2,3-TRICHLOROPROPANE	16	0.86	U		0.86 16	U		~~0.86~~ 16	U		0.86 16	U	
1,2,4-TRICHLOROBENZENE	2	0.45	U		0.45 2	U		~~0.45~~ 2	U		0.45 2	U	
1,2,4-TRIMETHYLBENZENE	3.9	0.54	~~U~~ J		0.54 6.5	U		~~0.54~~ 15	~~U~~		0.54 6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	13	0.37	U		0.37 13	U		~~0.37~~ 13	U		0.37 13	U	
1,2-DIBROMOETHANE	0.05	~~0.52~~	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U	
1,2-DICHLOROBENZENE	1.5	0.54	U		0.54 1.5	U		~~0.54~~ 1.5	U		0.54 1.5	U	
1,2-DICHLOROETHANE	3	0.52	U		0.52 3	U		~~0.52~~ 3	U		0.52 3	U	
1,2-DICHLOROPROPANE	2	0.54	U		0.54 2	U		~~0.54~~ 2	U		0.54 2	U	
1,3,5-TRIMETHYLBENZENE		4.1			0.6 2.5	U		~~0.6~~ 2.5	U		0.6 2.5	U	
1,3-DICHLOROBENZENE	6	0.46	U		0.46 6	U		~~0.46~~ 6	U		0.46 6	U	
1,3-DICHLOROPROPANE	2	0.42	U		0.42 2	U		~~0.42~~ 2	U		0.42 2	U	
1,4-DICHLOROBENZENE	1.5	0.58	U		0.58 1.5	U		~~0.58~~ 1.5	U		0.58 1.5	U	
2,2-DICHLOROPROPANE	17.5	0.53	U		0.53 17.5	U		~~0.53~~ 17.5	U		0.53 17.5	U	
2-CHLOROTOLUENE	2	0.55	U		0.55 2	U		~~0.55~~ 2	U		0.55 2	U	
4-CHLOROTOLUENE	3	0.52	U		0.52 3	U		~~0.52~~ 3	U		0.52 3	U	
4-ISOPROPYLTOLUENE		2	J	P	0.51 6	U		6.8			0.51 6	U	
BENZENE		17			0.53 1	U		1			0.53 1	U	
BROMOBENZENE	1.5	0.52	U		0.52 1.5	U		~~0.52~~ 1.5	U		0.52 1.5	U	
BROMOCHLOROMETHANE	2	0.59	U		0.59 2	U		~~0.59~~ 2	U		0.59 2	U	
BROMODICHLOROMETHANE	4	0.49	U		0.49 4	U		~~0.49~~ 4	U		0.49 4	U	
BROMOFORM	6	0.3	U		0.3 6	U		~~0.3~~ 6	U		0.3 6	U	
BROMOMETHANE	5.5	0.46	U		0.46 5.5	U		~~0.46~~ 5.5	U		0.46 5.5	U	
CARBON TETRACHLORIDE	10.5	1.3	U		1.3 10.5	U		~~1.3~~ 10.5	U		1.3 10.5	U	
CHLOROBENZENE	2	0.54	U		0.54 2	U		~~0.54~~ 2	U		0.54 2	U	
CHLORODIBROMOMETHANE	2.5	0.37	U		0.37 2.5	U		~~0.37~~ 2.5	U		0.37 2.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:		DUP-3			EB-2			MW-16			MW-2			
SAMPLE DATE:		05/06/01			05/05/01			05/05/01			05/06/01			
LABORATORY ID:		AC13009			AC13008			AC13001			AC13007			
QC_TYPE:		NORMAL			NORMAL			NORMAL			NORMAL			
% SOLIDS:		0.0 %			0.0 %			0.0 %			0.0 %			
UNITS:		UG/L			UG/L			UG/L			UG/L			
FIELD DUPLICATE OF:														
		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	
VOLATILES														
CHLOROETHANE	5	~~0.34~~	U		~~0.34~~ 5	U		~~0.34~~ 5	U		~~0.34~~ 5	U		
CHLOROFORM	1.5	~~0.53~~	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		~~0.53~~ 1.5	U		
CHLOROMETHANE	6.5	~~0.45~~	U		0.64	J	P	~~0.45~~ 6.5	U		~~0.45~~ 6.5	U		
CIS-1,2-DICHLOROETHENE	6	~~0.55~~	U		~~0.55~~ 6	U		~~0.55~~ 6	U		~~0.55~~ 6	U		
DIBROMOMETHANE	12	~~0.51~~	U		~~0.51~~ 12	U		~~0.51~~ 12	U		~~0.51~~ 12	U		
DICHLORODIFLUOROMETHANE	5	~~0.51~~	U		~~0.51~~ 5	U		~~0.51~~ 5	U		~~0.51~~ 5	U		
ETHYLBENZENE		39			~~0.52~~ 3	U		30			~~0.52~~ 3	U		
HEXACHLOROBUTADIENE	5.5	~~0.6~~	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		~~0.6~~ 5.5	U		
ISOPROPYLBENZENE		7.6			~~0.49~~ 2.5	U		5.7			~~0.49~~ 2.5	U		
METHYLENE CHLORIDE	1.5	1.3	U		1.4	J	P	~~1.3~~ 1.5	U		~~1.3~~ 1.5	U		
N-BUTYLBENZENE	5.5	~~0.47~~	U		~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		~~0.47~~ 5.5	U		
N-PROPYLBENZENE		12			~~0.62~~ 2	U		9.5			~~0.62~~ 2	U		
NAPHTHALENE		210	E		~~0.57~~ 2	U		110			~~0.57~~ 2	U		
SEC-BUTYLBENZENE		3.4	J	P	~~0.53~~ 6.5	U		3.4	J	P	~~0.53~~ 6.5	U		
STYRENE	2	~~0.44~~	U		~~0.44~~ 2	U		~~0.44~~ 2	U		~~0.44~~ 2	U		
TERT-BUTYLBENZENE		0.69	J	P	~~0.48~~ 7	U		~~0.64~~ 0.64	J	P	~~0.48~~ 7	U		
TETRACHLOROETHENE	7	~~0.49~~	U		~~0.49~~ 7	U		~~0.49~~ 7	U		~~0.49~~ 7	U		
TOLUENE	5.5	~~0.54~~	~~J~~ U	~~B~~	0.73	J	P	~~0.52~~ 5.5	U		~~0.52~~ 5.5	U		
TOTAL XYLENES	5	~~0.95~~	U		~~0.95~~ 5	U		~~0.95~~ 5	U		~~0.95~~ 5	U		
TRANS-1,2-DICHLOROETHENE	3	~~0.58~~	U		~~0.58~~ 3	U		~~0.58~~ 3	U		~~0.58~~ 3	U		
TRANS-1,3-DICHLOROPROPENE	5	~~0.43~~	U		~~0.43~~ 5	U		~~0.43~~ 5	U		~~0.43~~ 5	U		
TRICHLOROETHENE	5	~~0.53~~	U		~~0.53~~ 5	U		~~0.53~~ 5	U		~~0.53~~ 5	U		
TRICHLOROFLUOROMETHANE	4	~~0.55~~	U		~~0.55~~ 4	U		~~0.55~~ 4	U		~~0.55~~ 4	U		
VINYL CHLORIDE	5.5	~~0.56~~	U		~~0.56~~ 5.5	U		0.56 5.5	U		~~0.56~~ 5.5	U		
cis-1,3-dichloropropene		5	U		5	U		5	U		5	U		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES													
1,1,1,2-TETRACHLOROETHANE	2.5	0.41	U		0.41 2.5	U		0.41 2.5	U		0.41 2.5	U	
1,1,1-TRICHLOROETHANE	4	0.56	U		0.56 4	U		0.56 4	U		0.56 4	U	
1,1,2,2-TETRACHLOROETHANE	2	0.42	U		0.42 2	U		0.42 2	U		0.42 2	U	
1,1,2-TRICHLOROETHANE	5	0.49	U		0.49 5	U		0.49 5	U		0.49 5	U	
1,1-DICHLOROETHANE	2	0.55	U		0.55 2	U		0.55 2	U		0.55 2	U	
1,1-DICHLOROETHENE	6	0.61	U		0.61 6	U		0.61 6	U		0.61 6	U	
1,2,3-TRICHLOROBENZENE	1.5	0.4	U		0.4 1.5	U		0.4 1.5	U		0.4 1.5	U	
1,2,3-TRICHLOROPROPANE	16	0.86	U		0.86 16	U		0.86 16	U		0.86 16	U	
1,2,4-TRICHLOROBENZENE	2	0.45	U		0.45 2	U		0.45 2	U		0.45 2	U	
1,2,4-TRIMETHYLBENZENE	2.9	~~0.54~~	~~U~~ J		0.54 ~~4~~ ~~U~~ 6.5	U		0.54 ~~4~~ ~~U~~ 6.5	U		0.54 ~~4~~ ~~U~~ 6.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	13	0.37	U		0.37 13	U		0.37 13	U		0.37 13	U	
1,2-DIBROMOETHANE	0.05	~~0.52~~	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U		~~0.52~~ 0.05	U	
1,2-DICHLOROBENZENE	1.5	0.54	U		0.54 1.5	U		0.54 1.5	U		0.54 1.5	U	
1,2-DICHLOROETHANE	3	0.52	U		0.52 3	U		0.52 3	U		0.52 3	U	
1,2-DICHLOROPROPANE	2	0.54	U		0.54 2	U		0.54 2	U		0.54 2	U	
1,3,5-TRIMETHYLBENZENE		3.7			0.6 2.5	U		0.6 2.5	U		0.6 2.5	U	
1,3-DICHLOROBENZENE	6	0.46	U		0.46 6	U		0.46 6	U		0.46 6	U	
1,3-DICHLOROPROPANE	2	0.42	U		0.42 2	U		0.42 2	U		0.42 2	U	
1,4-DICHLOROBENZENE	1.5	0.58	U		0.58 1.5	U		0.58 1.5	U		0.58 1.5	U	
2,2-DICHLOROPROPANE	17.5	0.53	U		0.53 17.5	U		0.53 17.5	U		0.53 17.5	U	
2-CHLOROTOLUENE	2	0.55	U		0.55 2	U		0.55 2	U		0.55 2	U	
4-CHLOROTOLUENE	3	0.52	U		0.52 3	U		0.52 3	U		0.52 3	U	
4-ISOPROPYLTOLUENE		2.2	J	P	0.51 6	U		0.51 6	U		0.51 6	U	
BENZENE		19			0.53 1	U		0.53 1	U		0.53 1	U	
BROMOBENZENE	1.5	0.52	U		0.52 1.5	U		0.52 1.5	U		0.52 1.5	U	
BROMOCHLOROMETHANE	2	0.59	U		0.59 2	U		0.59 2	U		0.59 2	U	
BROMODICHLOROMETHANE	4	0.49	U		0.49 4	U		0.49 4	U		0.49 4	U	
BROMOFORM	6	0.3	U		0.3 6	U		0.3 6	U		0.3 6	U	
BROMOMETHANE	5.5	0.46	U		0.46 5.5	U		0.46 5.5	U		0.46 5.5	U	
CARBON TETRACHLORIDE	10.5	1.3	U		1.3 10.5	U		1.3 10.5	U		1.3 10.5	U	
CHLOROBENZENE	2	0.54	U		0.54 2	U		0.54 2	U		0.54 2	U	
CHLORODIBROMOMETHANE	2.5	0.37	U		0.37 2.5	U		0.37 2.5	U		0.37 2.5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
CHLOROETHANE	0.34 5	U		0.34 5	U		0.34 5	U		0.34 5	U	
CHLOROFORM	0.53 1.5	U		0.53 1.5	U		0.53 1.5	U		0.53 1.5	U	
CHLOROMETHANE	0.45 6.5	U		0.45 6.5	U		0.45 6.5	U		0.45 6.5	U	
CIS-1,2-DICHLOROETHENE	0.55 6	U		11			0.55 6	U		0.55 6	U	
DIBROMOMETHANE	0.51 12	U		0.51 12	U		0.51 12	U		0.51 12	U	
DICHLORODIFLUOROMETHANE	0.51 5	U		0.51 5	U		0.51 5	U		0.51 5	U	
ETHYLBENZENE	55			0.52 3	U		2	J	P	0.52 3	U	
HEXACHLOROBUTADIENE	~~0.6~~ 5.5	U		0.6 5.5	U		~~0.6~~ 5.5	U		0.6 5.5	U	
ISOPROPYLBENZENE	8.4			0.49 2.5	U		0.87	J	P	0.49 2.5	U	
METHYLENE CHLORIDE	1.3 1.5	U		1.3 1.5	U		1.3 1.5	U		1.3 1.5	U	
N-BUTYLBENZENE	0.47 5.5	U		0.47 5.5	U		0.47 5.5	U		0.47 5.5	U	
N-PROPYLBENZENE	13			0.62 2	U		0.62 2	U		0.62 2	U	
NAPHTHALENE	190			0.57 2	U		12			0.57 2	U	
SEC-BUTYLBENZENE	3.7	J	P	0.53 6.5	U		1.2	J	P	0.53 6.5	U	
STYRENE	~~0.44~~ 2	U		0.44 2	U		~~0.44~~ 2	U		0.44 2	U	
TERT-BUTYLBENZENE	0.8	J	P	0.48 7	U		0.57	J	P	0.48 7	U	
TETRACHLOROETHENE	~~0.49~~ 7	U		0.49 7	U		0.49 7	U		0.49 7	U	
TOLUENE	5.5 ~~0.56~~ U	/	B P	0.52 5.5	U		0.52 5.5	U		0.52 5.5	U	
TOTAL XYLENES	0.95 5	U		0.95 5	U		0.95 5	U		0.95 5	U	
TRANS-1,2-DICHLOROETHENE	0.58 3	U		0.58 3	U		0.58 3	U		0.58 3	U	
TRANS-1,3-DICHLOROPROPENE	0.43 5	U		0.43 5	U		0.43 5	U		0.43 5	U	
TRICHLOROETHENE	0.53 5	U		2.3	J	P	0.53 5	U		0.53 5	U	
TRICHLOROFLUOROMETHANE	0.55 4	U		~~0.55~~ 4	U		0.55 4	U		0.55 4	U	
VINYL CHLORIDE	0.56 5.5	U		3.1	J	P	0.56 5.5	U		0.56 5.5	U	
cis-1,3-Dichloro propene	5	U		5	U		5	U		5	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			TB27818								
SAMPLE DATE:	05/05/01			05/05/01			/ /			/ /		
LABORATORY ID:	AC13002			AC13010								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1,2-TETRACHLOROETHANE	~~0.41~~ 2.5	U		2.5	U							
1,1,1-TRICHLOROETHANE	~~0.56~~ 4	U		4	U							
1,1,2,2-TETRACHLOROETHANE	~~0.42~~ 2	U		2	U							
1,1,2-TRICHLOROETHANE	~~0.49~~ 5	U		5	U							
1,1-DICHLOROETHANE	~~0.55~~ 2	U		2	U							
1,1-DICHLOROETHENE	~~0.61~~ 6	U		6	U							
1,2,3-TRICHLOROBENZENE	~~0.4~~ 1.5	U		1.5	U							
1,2,3-TRICHLOROPROPANE	~~0.86~~ 16	U		16	U							
1,2,4-TRICHLOROBENZENE	~~0.45~~ 2	U		2	U							
1,2,4-TRIMETHYLBENZENE *	~~0.54~~ 14	~~U~~		6.5	U							
1,2-DIBROMO-3-CHLOROPROPANE	~~0.87~~ 13	U		13	U							
1,2-DIBROMOETHANE	~~0.52~~ 0.05	U		3	U							
1,2-DICHLOROBENZENE	~~0.54~~ 1.5	U		1.5	U							
1,2-DICHLOROETHANE	~~0.52~~ 3	U		3	U							
1,2-DICHLOROPROPANE	~~0.64~~ 2	U		2	U							
1,3,5-TRIMETHYLBENZENE *	19			2.5	U							
1,3-DICHLOROBENZENE	~~0.46~~ 6	U		6	U							
1,3-DICHLOROPROPANE	~~0.42~~ 2	U		2	U							
1,4-DICHLOROBENZENE	~~0.58~~ 1.5	U		1.5	U							
2,2-DICHLOROPROPANE	~~0.53~~ 17.5	U		17.5	U							
2-CHLOROTOLUENE	~~0.55~~ 2	U		2	U							
4-CHLOROTOLUENE	~~0.52~~ 3	U		3	U							
4-ISOPROPYLTOLUENE *	2.3	J	P	6	U							
BENZENE *	8.4			1	U							
BROMOBENZENE	~~0.52~~ 1.5	U		1.5	U							
BROMOCHLOROMETHANE	~~0.59~~ 2	U		2	U							
BROMODICHLOROMETHANE	~~0.49~~ 4	U		4	U							
BROMOFORM	~~0.3~~ 6	U		6	U							
BROMOMETHANE	~~0.46~~ 5.5	U		5.5	U							
CARBON TETRACHLORIDE	~~1.3~~ 10.5	U		10.5	U							
CHLOROBENZENE	~~0.54~~ 2	U		2	U							
CHLORODIBROMOMETHANE	~~0.37~~ 2.5	U		2.5	U							

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			TB27818			/ /			/ /		
SAMPLE DATE:	05/05/01			05/05/01								
LABORATORY ID:	AC13002			AC13010								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
CHLOROETHANE	0.14 5	U		5 U								
CHLOROFORM	0.33 1.5	U		1.5 U								
CHLOROMETHANE	0.45 6.5	U		6.5 U								
CIS-1,2-DICHLOROETHENE	0.55 6	U		6 U								
DIBROMOMETHANE	0.51 12	U		12 U								
DICHLORODIFLUOROMETHANE	0.51 5	U		5 U								
ETHYLBENZENE •	56			3 U								
HEXACHLOROBUTADIENE	~~0.0~~ 5.5	U		5.5 U								
ISOPROPYLBENZENE •	4.5			2.5 U								
METHYLENE CHLORIDE	1.3 1.5	U		5.6								
N-BUTYLBENZENE	0.47 5.5	U		5.5 U								
N-PROPYLBENZENE •	5.9			2 U								
NAPHTHALENE •	150			2 U								
SEC-BUTYLBENZENE	0.53 6.5	U		6.5 U								
STYRENE	0.44 2	U		2 U								
TERT-BUTYLBENZENE	0.48 7	U		7 U								
TETRACHLOROETHENE	0.49 7	U		7 U								
TOLUENE	5.5 ~~1.5~~	U ~~J~~	B ~~J~~	2.1 J		P						
TOTAL XYLENES	26			5 U								
TRANS-1,2-DICHLOROETHENE	0.58 3	U		3 U								
TRANS-1,3-DICHLOROPROPENE	0.43 5	U		5 U								
TRICHLOROETHENE	0.53 5	U		5 U								
TRICHLOROFLUOROMETHANE	0.55 4	U		4 U								
VINYL CHLORIDE	0.56 5.5	U		5.5 U								
cis-1,3-Dichloropropene	5	U		5 U								

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,2,4-TRICHLOROBENZENE	1.6 100	U		1.6 10	U		~~1.0~~ 10	U		1.6 50	U	
1,2-DICHLOROBENZENE	1.9	U		1.9	U		~~1.0~~	U		1.9	U	
1,3-DICHLOROBENZENE	1.7	U		1.7	U		~~1.7~~	U		1.7	U	
1,4-DICHLOROBENZENE	1.7	U		1.7	U		~~1.7~~	U		1.7	U	
2,4,5-TRICHLOROPHENOL	1.6 500	U		1.6 50	U		~~1.6~~ 50	U		1.6 250	U	
2,4,6-TRICHLOROPHENOL	1.6 100	U		1.6 10	U		~~1.0~~ 10	U		1.6 50	U	
2,4-DICHLOROPHENOL	1.6	U		1.6	U		~~1.6~~	U		1.6	U	
2,4-DIMETHYLPHENOL	1.6	U		1.6	U		~~1.6~~	U		1.6	U	
2,4-DINITROPHENOL	10 500	U		10 50	U		~~10~~ 50	U		10 250	U	
2,4-DINITROTOLUENE	2.4 100	U		2.4 10	U		~~2.4~~ 10	U		2.4 50	U	
2,6-DINITROTOLUENE	1.3	U		1.3	U		~~1.8~~	U		1.3	U	
2-CHLORONAPHTHALENE	1.8	U		1.8	U		~~1.8~~	U		1.8	U	
2-CHLOROPHENOL	1.5	U		1.5	U		~~1.5~~	U		1.5	U	
2-METHYLNAPHTHALENE	160			1.8	U		87			39	J	P
2-METHYLPHENOL	1.4 100	U		1.4	U		~~1.4~~ 10	U		1.4 50	U	
2-NITROANILINE	1.6 500	U		1.6 50	U		~~1.6~~ 50	U		1.6 250	U	
2-NITROPHENOL	1.8 100	U		1.8 10	U		~~1.8~~ 10	U		1.8 50	U	
3,3'-DICHLOROBENZIDINE	1 200	U		1 20	U		~~1~~ 20	U		1 100	U	
3-NITROANILINE	3 500	U		3 50	U		~~3~~ 50	U		3 250	U	
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U		~~1.9~~	U		1.9	U	
4-BROMOPHENYL PHENYL ETHER	1.2 100	U		1.2 10	U		~~1.2~~ 10	U		1.2 50	U	
4-CHLORO-3-METHYLPHENOL	1.3 200	U		1.3 20	U		~~1.3~~ 20	U		1.3 100	U	
4-CHLOROANILINE	3.5	U		3.5	U		~~3.5~~ 20	U		3.5	U	
4-CHLOROPHENYL PHENYL ETHER	1.1 100	U		1.1 10	U		~~1.1~~ 10	U		1.1 50	U	
4-NITROANILINE	3.8 500	U		3.8 50	U		~~3.8~~ 50	U		3.8 250	U	
4-NITROPHENOL	4.4	U		4.4	U		~~4.4~~	U		16	J	P
ACENAPHTHENE	1.2 100	U		1.2 10	U		6	J	P	1.2 50	U	
ACENAPHTHYLENE	1.4	U		1.4	U		~~1.4~~ 10	U		1.4	U	
ANTHRACENE	1	U		1	U		~~1~~	U		1	U	
BENZO(A)ANTHRACENE	0.48	U		0.48	U		~~0.48~~	U		0.48	U	
BENZO(A)PYRENE	0.79	U		0.79	U		0.79	U		0.79	U	
BENZO(B)FLUORANTHENE	1	U		1	U		~~1~~	U		1	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3	EB-2	MW-16	MW-2
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/06/01
LABORATORY ID:	AC13009	AC13008	AC13001	AC13007
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.75 100	U		0.75 10	U		~~0.75~~ 10	U		0.75 50	U	
BENZO(K)FLUORANTHENE	1.4 ↓	U		1.4 ↓	U		~~1.4~~ ↓	U		1.4 ↓	U	
BENZOIC ACID	50 500	U		50 50	U		50	U		50 250	U	
BENZYL ALCOHOL	1.9 200	U		1.9 20	U		~~1.9~~ 20	U		1.9 100	U	
BIS(2-CHLOROETHOXY)METHANE	1.4 100	U		1.4 10	U		~~1.4~~ 10	U		1.4 50	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.67 ↓	U		0.67	U	
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U		1.8 ↓	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U		~~0.78~~ 10	U		0.78	U	
DIBENZOFURAN	1.2	U		1.2	U		5.7	J	P	1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		~~1.2~~ 10	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		~~0.94~~	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		~~1.6~~ ↓	U		1.6	U	
FLUORENE	1.5	U		1.5	U		9	J	P	1.5	U	
HEXACHLOROBENZENE	0.95	U		0.95	U		~~0.95~~ 10	U		0.95	U	
HEXACHLOROBUTADIENE	0.86	U		0.86	U		~~0.86~~	U		0.86	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		~~0.86~~	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		~~1.7~~	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		~~0.75~~	U		0.75	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		~~1.4~~	U		1.4	U	
N-NITROSODIPHENYLAMINE	1 ↓	U		1	U		~~1~~ ↓	U		1 ↓	U	
NAPHTHALENE	120			1.9	U		52			62		
NITROBENZENE	1.5 100	U		1.5 ↓	U		~~1.5~~ 10	U		1.5 50	U	
PENTACHLOROPHENOL	1.8 500	U		1.8 50	U		~~1.8~~ 50	U		1.8 250	U	
PHENANTHRENE	0.86 100	U		0.86 10	U		~~0.86~~ 10	U		0.86 50	U	
PHENOL	1.5 ↓	U		1.5 ↓	U		~~1.5~~ ↓	U		7.1	J	P
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~39~~	~~J~~	~~P~~

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PYRENE	100	U		10	U		10	U		50	U	
3+4-Methylphenol	200	U		20	U		20	U		39	J	P

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	1.6 100	U		1.6 10	U		1.6 100	U		1.6 100	U	
1,2-DICHLOROBENZENE	1.9	U		1.9	U		1.9	U		1.9	U	
1,3-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
1,4-DICHLOROBENZENE	1.7	U		1.7	U		1.7	U		1.7	U	
2,4,5-TRICHLOROPHENOL	1.6 500	U		1.6 50	U		1.6 500	U		1.6 500	U	
2,4,6-TRICHLOROPHENOL	1.6 100	U		1.6 10	U		1.6 100	U		1.6 100	U	
2,4-DICHLOROPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DIMETHYLPHENOL	1.6	U		1.6	U		1.6	U		1.6	U	
2,4-DINITROPHENOL	10 500	U		10 50	U		10 500	U		10 500	U	
2,4-DINITROTOLUENE	2.4 100	U		2.4 10	U		2.4 100	U		2.4 100	U	
2,6-DINITROTOLUENE	1.3	U		1.3	U		1.3	U		1.3	U	
2-CHLORONAPHTHALENE	1.8	U		1.8	U		1.8	U		1.8	U	
2-CHLOROPHENOL	1.5	U		1.5	U		1.5	U		1.5	U	
2-METHYLNAPHTHALENE	160			1.8	U		1.8	U		1.8	U	
2-METHYLPHENOL	1.4 100	U		1.4	U		1.4	U		1.4	U	
2-NITROANILINE	1.6 500	U		1.6 50	U		1.6 500	U		1.6 500	U	
2-NITROPHENOL	1.8 100	U		1.8 10	U		1.8 100	U		1.8 100	U	
3,3'-DICHLOROBENZIDINE	1 200	U		1 20	U		1 200	U		1 200	U	
3-NITROANILINE	3 500	U		3 50	U		3 500	U		3 500	U	
4,6-DINITRO-2-METHYLPHENOL	1.9	U		1.9	U		1.9	U		1.9	U	
4-BROMOPHENYL PHENYL ETHER	1.2 100	U		1.2 10	U		1.2 100	U		1.2 100	U	
4-CHLORO-3-METHYLPHENOL	1.3 200	U		1.3 20	U		1.3 200	U		1.3 200	U	
4-CHLOROANILINE	3.5	U		3.5	U		3.5	U		3.5	U	
4-CHLOROPHENYL PHENYL ETHER	1.1 100	U		1.1 10	U		1.1 100	U		1.1 100	U	
4-NITROANILINE	3.8 500	U		3.8 50	U		3.8 500	U		3.8 500	U	
4-NITROPHENOL	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHENE	1.2 100	U		1.2 10	U		1.2 100	U		1.2 100	U	
ACENAPHTHYLENE	1.4	U		1.4	U		1.4	U		1.4	U	
ANTHRACENE	1	U		1	U		1	U		1	U	
BENZO(A)ANTHRACENE	0.48	U		0.48	U		0.48	U		0.48	U	
BENZO(A)PYRENE	0.79	U		0.79	U		0.79	U		0.79	U	
BENZO(B)FLUORANTHENE	1	U		1	U		1	U		1	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.75 100	U		0.75 10	U		0.75 100	U		0.75 100	U	
BENZO(K)FLUORANTHENE	1.4 ↓	U		1.4 ↓	U		1.4 ↓	U		1.4 ↓	U	
BENZOIC ACID	50 500	U		50 50	U		50 500	U		50 500	U	
BENZYL ALCOHOL	1.9 200	U		1.9 20	U		1.9 200	U		1.9 200	U	
BIS(2-CHLOROETHOXY)METHANE	1.4 100	U		1.4 10	U		1.4 100	U		1.4 100	U	
BIS(2-CHLOROETHYL)ETHER	1.4	U		1.4	U		1.4	U		1.4	U	
BIS(2-CHLOROISOPROPYL)ETHER	1	U		1	U		1	U		1	U	
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U		3.1	U		3.1	U		3.1	U	
BUTYL BENZYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
CARBAZOLE	1.9	U		1.9	U		1.9	U		1.9	U	
CHRYSENE	0.67	U		0.67	U		0.67	U		0.67	U	
DI-N-BUTYL PHTHALATE	0.68	U		0.68	U		0.68	U		0.68	U	
DI-N-OCTYL PHTHALATE	1.8	U		1.8	U		1.8	U		1.8	U	
DIBENZO(A,H)ANTHRACENE	0.78	U		0.78	U		0.78	U		0.78	U	
DIBENZOFURAN	1.2	U		1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	1.2	U		1.2	U		1.2	U		1.2	U	
DIMETHYL PHTHALATE	0.94	U		0.94	U		0.94	U		0.94	U	
FLUORANTHENE	1.6	U		1.6	U		1.6	U		1.6	U	
FLUORENE	1.5	U		1.5	U		1.5	U		1.5	U	
HEXACHLOROBENZENE	0.95	U		0.95	U		0.95	U		0.95	U	
HEXACHLOROBUTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROCYCLOPENTADIENE	0.86	U		0.86	U		0.86	U		0.86	U	
HEXACHLOROETHANE	1.7	U		1.7	U		1.7	U		1.7	U	
INDENO(1,2,3-CD)PYRENE	0.75	U		0.75	U		0.75	U		0.75	U	
N-NITROSO-DI-N-PROPYLAMINE	1.4	U		1.4	U		1.4	U		1.4	U	
N-NITROSODIPHENYLAMINE	1 ↓	U		1	U		1	U		1	U	
NAPHTHALENE	130			1.9	U		1.9	U		1.9	U	
NITROBENZENE	1.5 100	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
PENTACHLOROPHENOL	1.8 500	U		1.8 50	U		1.8 500	U		1.8 500	U	
PHENANTHRENE	0.86 100	U		0.86 10	U		0.86 100	U		0.86 100	U	
PHENOL	1.5 ↓	U		1.5 ↓	U		1.5 ↓	U		1.5 ↓	U	
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.5~~	~~U~~		~~1.5~~	~~U~~	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
PYRENE	100	U		← 10	U		← 100	U		← 100	U	
3+4 methylphenol	200	U		20	U		200	U		200	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8			/ /			/ /			/ /		
SAMPLE DATE:	05/05/01											
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1,2,4-TRICHLOROBENZENE	1.6 10	U										
1,2-DICHLOROBENZENE	1.9	U										
1,3-DICHLOROBENZENE	1.7	U										
1,4-DICHLOROBENZENE	1.7	U										
2,4,5-TRICHLOROPHENOL	1.6 50	U										
2,4,6-TRICHLOROPHENOL	1.5 10	U										
2,4-DICHLOROPHENOL	1.5	U										
2,4-DIMETHYLPHENOL	1.6	U										
2,4-DINITROPHENOL	10 50	U										
2,4-DINITROTOLUENE	2.4 10	U										
2,6-DINITROTOLUENE	1.3	U										
2-CHLORONAPHTHALENE	1.3	U										
2-CHLOROPHENOL	1.5	U										
2-METHYLNAPHTHALENE	1.8	U										
2-METHYLPHENOL	1.4	U										
2-NITROANILINE	1.6 50	U										
2-NITROPHENOL	1.8 10	U										
3,3'-DICHLOROBENZIDINE	1 20	U										
3-NITROANILINE	3 50	U										
4,6-DINITRO-2-METHYLPHENOL	1.9	U										
4-BROMOPHENYL PHENYL ETHER	1.2 10	U										
4-CHLORO-3-METHYLPHENOL	1.3 20	U										
4-CHLOROANILINE	3.5	U										
4-CHLOROPHENYL PHENYL ETHER	1.1 10	U										
4-NITROANILINE	3.8 50	U										
4-NITROPHENOL	4.4	U										
ACENAPHTHENE	1.2 10	U										
ACENAPHTHYLENE	1.4	U										
ANTHRACENE	1	U										
BENZO(A)ANTHRACENE	0.48	U										
BENZO(A)PYRENE	0.79	U										
BENZO(B)FLUORANTHENE	1	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
BENZO(G,H,I)PERYLENE	0.75 10	U										
BENZO(K)FLUORANTHENE	1.4 ↓	U										
BENZOIC ACID	50 50	U										
BENZYL ALCOHOL	1.9 20	U										
BIS(2-CHLOROETHOXY)METHANE	1.4 10	U										
BIS(2-CHLOROETHYL)ETHER	1.4	U										
BIS(2-CHLOROISOPROPYL)ETHER	1	U										
BIS(2-ETHYLHEXYL)PHTHALATE	3.1	U										
BUTYL BENZYL PHTHALATE	1.2	U										
CARBAZOLE	1.9	U										
CHRYSENE	0.67	U										
DI-N-BUTYL PHTHALATE	0.68	U										
DI-N-OCTYL PHTHALATE	1.8	U										
DIBENZO(A,H)ANTHRACENE	0.78	U										
DIBENZOFURAN	1.2	U										
DIETHYL PHTHALATE	1.2	U										
DIMETHYL PHTHALATE	0.94	U										
FLUORANTHENE	1.6	U										
FLUORENE	1.5	U										
HEXACHLOROBENZENE	0.95	U										
HEXACHLOROBUTADIENE	0.86	U										
HEXACHLOROCYCLOPENTADIENE	0.86	U										
HEXACHLOROETHANE	1.7	U										
INDENO(1,2,3-CD)PYRENE	0.75	U										
N-NITROSO-DI-N-PROPYLAMINE	1.4	U										
N-NITROSODIPHENYLAMINE	1	U										
NAPHTHALENE	1.9	U										
NITROBENZENE	1.5 ↓	U										
PENTACHLOROPHENOL	1.4 50	U										
PHENANTHRENE	0.86 10	U										
PHENOL	1.5 ↓	U										
~~PHOSPHORUS, TOTAL AS P~~	~~1.5~~	~~U~~										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
SEMIVOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
PYRENE	~~T~~ 10	U										
3+4 Methylphenol	20	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	110			0.31 1.0	U		55			35		
2-METHYLNAPHTHALENE	170			0.3	U		82			40		
ACENAPHTHENE	9.6	J	P	0.29	U		6.4			6.6		
ACENAPHTHYLENE	0.2 10	U		0.2	U		0.2 1.0	U		0.2 5.0	U	
ANTHRACENE	0.11	U		0.11	U		0.11	U		0.11	U	
BENZO(A)ANTHRACENE	0.17	U		0.17	U		0.17	U		0.17	U	
BENZO(A)PYRENE	0.21	U		0.21	U		0.21	U		0.21	U	
BENZO(B)FLUORANTHENE	0.14	U		0.14	U		0.14	U		0.14	U	
BENZO(G,H,I)PERYLENE	0.31	U		0.31	U		0.31	U		0.31	U	
BENZO(K)FLUORANTHENE	0.29	U		0.29	U		0.29	U		0.29	U	
CHRYSENE	0.16	U		0.16	U		0.16	U		0.16	U	
DIBENZO(A,H)ANTHRACENE	0.18	U		0.18	U		0.18	U		0.18	U	
FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORENE	14			0.27	U		8.6			6.7		
INDENO(1,2,3-CD)PYRENE	~~0.25~~ 10	U		0.25	U		~~0.25~~ 1.0	U		~~0.25~~ 5.0	U	
NAPHTHALENE	130			0.3	U		53			64		
PHENANTHRENE	9	J	P	0.26	U		7.2			2.9	J	P
PYRENE	~~0.28~~ 10	U		0.28	U		~~0.28~~ 1.0	U		~~0.28~~ 5.0	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	110			~~0.31~~ 1.0	U		11			~~0.31~~ 10	U	
2-METHYLNAPHTHALENE	160			~~0.3~~	U		3.1	J	P	~~0.3~~	U	
ACENAPHTHENE	9.8	J	P	~~0.29~~	U		3.9	J	P	~~0.29~~	U	
ACENAPHTHYLENE	~~0.2~~ 10	U		~~0.2~~	U		~~0.2~~ 10	U		~~0.2~~	U	
ANTHRACENE	~~0.11~~	U		~~0.11~~	U		~~0.11~~	U		~~0.11~~	U	
BENZO(A)ANTHRACENE	~~0.17~~	U		~~0.17~~	U		~~0.17~~	U		~~0.17~~	U	
BENZO(A)PYRENE	~~0.21~~	U		~~0.21~~	U		~~0.21~~	U		~~0.21~~	U	
BENZO(B)FLUORANTHENE	~~0.14~~	U		~~0.14~~	U		~~0.14~~	U		~~0.14~~	U	
BENZO(G,H,I)PERYLENE	~~0.31~~	U		~~0.31~~	U		~~0.31~~	U		~~0.31~~	U	
BENZO(K)FLUORANTHENE	~~0.29~~	U		~~0.29~~	U		~~0.29~~	U		~~0.29~~	U	
CHRYSENE	~~0.16~~	U		~~0.16~~	U		~~0.16~~	U		~~0.16~~	U	
DIBENZO(A,H)ANTHRACENE	~~0.18~~	U		~~0.18~~	U		~~0.18~~	U		~~0.18~~	U	
FLUORANTHENE	~~0.2~~	U		~~0.2~~	U		~~0.2~~	U		~~0.2~~	U	
FLUORENE	13			~~0.27~~	U		5.6	J	P	~~0.27~~	U	
INDENO(1,2,3-CD)PYRENE	~~0.25~~ 10	U		~~0.25~~	U		~~0.25~~ 10	U		~~0.25~~	U	
NAPHTHALENE	130			~~0.3~~	U		~~0.3~~	U		~~0.3~~	U	
PHENANTHRENE	8.9	J	P	~~0.26~~	U		~~0.26~~	U		~~0.26~~	U	
PYRENE	~~0.28~~ 10	U		~~0.28~~	U		~~0.28~~	U		~~0.28~~	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:		MW-8										
SAMPLE DATE:		05/05/01			/ /			/ /			/ /	
LABORATORY ID:		AC13002										
QC_TYPE:		NORMAL										
% SOLIDS:		0.0 %			100.0 %			100.0 %			100.0 %	
UNITS:		UG/L										
FIELD DUPLICATE OF:												
		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS													
1-METHYLNAPHTHALENE	1.0	0.31	U										
2-METHYLNAPHTHALENE		0.3	U										
ACENAPHTHENE		0.29	U										
ACENAPHTHYLENE		0.2	U										
ANTHRACENE		0.11	U										
BENZO(A)ANTHRACENE		0.17	U										
BENZO(A)PYRENE		0.21	U										
BENZO(B)FLUORANTHENE		0.14	U										
BENZO(G,H,I)PERYLENE		0.31	U										
BENZO(K)FLUORANTHENE		0.29	U										
CHRYSENE		0.16	U										
DIBENZO(A,H)ANTHRACENE		0.18	U										
FLUORANTHENE		0.2	U										
FLUORENE		0.27	U										
INDENO(1,2,3-CD)PYRENE		0.25	U										
NAPHTHALENE		0.3	U										
PHENANTHRENE		0.26	U										
PYRENE		0.28	U										

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:	AC13009			AC13008			AC13001			AC13007		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	29			0.55	JB		5.4			~~0.9~~ 1.0	~~JB~~ U	B

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20			MW-24D			MW-5			MW-6		
SAMPLE DATE:	05/06/01			05/05/01			05/05/01			05/05/01		
LABORATORY ID:	AC13006			AC13004			AC13003			AC13005		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	26			~~0.45~~ 1.0	~~JB~~ U	B	6.1			10		

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-8											
SAMPLE DATE:	05/05/01			/ /			/ /			/ /		
LABORATORY ID:	AC13002											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	16											

27818

HOLDING TIME
06/21/01

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	DUP-3	AC13009	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	EB-2	AC13008	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-16	AC13001	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-2	AC13007	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	MW-20	AC13006	NORMAL	27818	EDB	05/06/01	05/14/01	05/15/01	8	1	9
UG/L	MW-24D	AC13004	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-5	AC13003	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-6	AC13005	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
UG/L	MW-8	AC13002	NORMAL	27818	EDB	05/05/01	05/14/01	05/15/01	9	1	10
MG/L	DUP-3	AC13009	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	EB-2	AC13008	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-16	AC13001	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-2	AC13007	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	MW-20	AC13006	NORMAL	27818	M	05/06/01	05/23/01	05/25/01	17	2	19
MG/L	MW-24D	AC13004	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-5	AC13003	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-6	AC13005	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
MG/L	MW-8	AC13002	NORMAL	27818	M	05/05/01	05/23/01	05/25/01	18	2	20
UG/L	DUP-3	AC13009	NORMAL	27818	OS	05/06/01	05/11/01	05/16/01	5	5	10
UG/L	EB-2	AC13008	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-16	AC13001	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-2	AC13007	NORMAL	27818	OS	05/06/01	05/11/01	05/17/01	5	6	11
UG/L	MW-20	AC13006	NORMAL	27818	OS	05/06/01	05/11/01	05/16/01	5	5	10
UG/L	MW-24D	AC13004	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-5	AC13003	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/L	MW-6	AC13005	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	MW-8	AC13002	NORMAL	27818	OS	05/05/01	05/11/01	05/16/01	6	5	11
UG/L	DUP-3	AC13009	NORMAL	27818	OV	05/06/01	05/14/01	05/14/01	8	0	8
UG/L	EB-2	AC13008	NORMAL	27818	OV	05/05/01	05/16/01	05/16/01	11	0	11
UG/L	MW-16	AC13001	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-2	AC13007	NORMAL	27818	OV	05/06/01	05/16/01	05/16/01	10	0	10
UG/L	MW-20	AC13006	NORMAL	27818	OV	05/06/01	05/14/01	05/14/01	8	0	8
UG/L	MW-24D	AC13004	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-5	AC13003	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-6	AC13005	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	MW-8	AC13002	NORMAL	27818	OV	05/05/01	05/14/01	05/14/01	9	0	9
UG/L	TRIP BLANK	AC13010	NORMAL	27818	OV	05/05/01	05/16/01	05/16/01	11	0	11
UG/L	DUP-3	AC13009	NORMAL	27818	PAH	05/06/01	05/11/01	05/21/01	5	10	15
UG/L	EB-2	AC13008	NORMAL	27818	PAH	05/05/01	05/11/01	05/21/01	6	10	16
UG/L	MW-16	AC13001	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-2	AC13007	NORMAL	27818	PAH	05/06/01	05/11/01	05/22/01	5	11	16
UG/L	MW-20	AC13006	NORMAL	27818	PAH	05/06/01	05/11/01	05/21/01	5	10	15
UG/L	MW-24D	AC13004	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-5	AC13003	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
UG/L	MW-6	AC13005	NORMAL	27818	PAH	05/05/01	05/11/01	05/21/01	6	10	16
UG/L	MW-8	AC13002	NORMAL	27818	PAH	05/05/01	05/11/01	05/20/01	6	9	15
MG/L	DUP-3	AC13009	NORMAL	27818	TPH	05/06/01	05/10/01	05/15/01	4	5	9
MG/L	EB-2	AC13008	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-16	AC13001	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-2	AC13007	NORMAL	27818	TPH	05/06/01	05/10/01	05/14/01	4	4	8
MG/L	MW-20	AC13006	NORMAL	27818	TPH	05/06/01	05/10/01	05/15/01	4	5	9
MG/L	MW-24D	AC13004	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
MG/L	MW-5	AC13003	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-6	AC13005	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10
MG/L	MW-8	AC13002	NORMAL	27818	TPH	05/05/01	05/10/01	05/15/01	5	5	10

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:		DUP-3			EB-2			MW-16			MW-2		
SAMPLE DATE:		05/06/01			05/05/01			05/05/01			05/06/01		
LABORATORY ID:		AC13009			AC13008			AC13001			AC13007		
QC_TYPE:		NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:		0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:		MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:													
		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS													
ARSENIC	0.050	~~0.0052~~	U		~~0.0052~~ 0.050	U		~~0.0052~~ 0.050	U		~~0.0052~~ 0.050	U	
CADMIUM	0.0050	~~0.00039~~	U		~~0.00039~~	U 0.0050		~~0.00039~~	U 0.0050		~~0.00039~~	U 0.0050	
CHROMIUM		0.0023	J	P	~~0.0012~~	U 0.050		~~0.0012~~ 0.050	U		0.0016	J	P
LEAD	0.010	~~0.0030~~	U		~~0.0030~~ 0.010	U		~~0.0030~~ 0.010	U		~~0.0030~~ 0.010	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:	MW-20	MW-24D	MW-5	MW-6
SAMPLE DATE:	05/06/01	05/05/01	05/05/01	05/05/01
LABORATORY ID:	AC13006	AC13004	AC13003	AC13005
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS													
ARSENIC	0.050	~~0.0052~~	U		~~0.0052~~ 0.050	U		~~0.0052~~ 0.050	U		~~0.0052~~ 0.050	U	
CADMIUM	0.0050	~~0.00039~~	U		~~0.00039~~	U 0.0050		~~0.00039~~	U 0.0050		~~0.00039~~	U 0.0050	
CHROMIUM		0.0025	J	P	0.0013	J	P	0.0016	J	P	0.0015	J	P
LEAD	0.010	~~0.0038~~	U		~~0.0030~~ 0.010	U		~~0.0030~~ 0.010	U		~~0.0038~~ 0.010	U	

CTO140-NAS PENSACOLA
WATER DATA
AAL
SDG: 27818

SAMPLE NUMBER:		MW-8										
SAMPLE DATE:		05/05/01			/ /			/ /			/ /	
LABORATORY ID:		AC13002										
QC_TYPE:		NORMAL										
% SOLIDS:		0.0 %			100.0 %			100.0 %			100.0 %	
UNITS:		MG/L										
FIELD DUPLICATE OF:												
		RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
ARSENIC	0.050	~~0.0052~~	U									
CADMIUM	0.0050	~~0.00039~~	U									
CHROMIUM	0.0028	~~0~~	J	P								
LEAD	0.0071	~~0.01~~	J	P								

Original submittal

-ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27818
Client Project: NAS Pensacola, Bldg. 1932 / N0547/CTO 140
CTO Manager: Gerry Walker

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 05/08/01 at 1015:

Client I.D.	Laboratory I.D.
MW-16	AC13001
MW-8	AC13002
MW-5	AC13003
MW-24D	AC13004
MW-6	AC13005
MW-20	AC13006
MW-2	AC13007
EB-2	AC13008
DUP-3	AC13009
Trip Blank	AC13010

2. The sample cooler temperature was noted to be 2^{0}C upon receipt.

3. The "J" values noted for the PAH's-Low Level, FLA-PRO, Metals, SVOC, and VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

4. The "B" values noted for the Metals analysis indicate that the compounds were detected in the samples and in the blank, and the results should be considered estimated due to blank contamination.

5. The pH of the samples was 1.0 for the VOC analysis.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

6. The following samples required dilution due to high analyte concentration and/or matrix interference, resulting in elevated detection limits:

FLA-PRO	VOC – SW-846-8260B
MW-8	MW-16
MW-6	MW-8
MW-20	MW-20
DUP-3	DUP-3

SVOC – SW-846-8270C	PAH by Low Level – SW-846-8270C
MW-5	MW-5
MW-6	MW-6
MW-20	MW-20
MW-2	MW-2
DUP-3	DUP-3

7. The following surrogate was outside the method specified limit due to matrix interference as indicated by "Z" qualifier:

VOC – SW-846-8260B

1,2-Dichloroethane-d4 -	DUP-3

8. The following surrogates were outside the method specified limits as indicated by "Z" qualifier:

FLA-PRO

(Nonatriacontane/C39) -	MW-16
	MW-5
	MW-24D
	MW-2
	EB-2
	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate
o-Terphenyl -	EB-2
	Matrix Spike
	Matrix Spike Duplicate

SVOC – SW-846-8270C

2,4,6-Tribromophenol -	Matrix Spike
	Matrix Spike Duplicate

The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

9. The surrogates were diluted out for the following samples; therefore no recoveries could be reported:

SVOC – SW-846-8270C	FLA-PRO
MW-5	MW-8
MW-6	MW-6
MW-20	MW-20
DUP-3	DUP-3

10. The response of one or more internal standards was outside the method specified limits for the following sample:

SVOC – SW-846-8270C
EB-2

No results were affected by the internal standard.

11. The following analyte concentration was above the calibration range as indicated by "E" qualifier:

VOC – SW-846-8260B
Naphthalene - DUP-3

The result for this analyte should be considered estimated.

12. The laboratory control sample recoveries (LCS) were outside the project specified limit for the following analytes:

SVOC – SW-846-8270C
LCS - 2-Nitroaniline 3,3-Dichlorobenzidine 3-Nitroaniline
4-Chloroaniline 4-Nitroaniline
Bis(2-chloroethoxy)methane Hexachlorocyclopentadiene

The recoveries were bias low. The results for these analytes should be considered estimated.

13. The laboratory control sample recovery was outside the project specified limit for the following analyte:

FL-PRO

The recovery was within historical limits established in the laboratory; therefore the data was accepted.

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

14. The following spike recoveries were outside the project specified limits due to matrix interference:

VOC – SW-46-8260B
Matrix Spike - 1,2-Dibromo-3-chloropropane Naphthalene

SVOC – SW-846-8270C
Matrix Spike - 2-Methylnaphthalene 2-Nitroaniline 3,3'-Dichlorobenzidine 3-Nitroaniline 4-Chloroaniline 4-Nitroaniline Acenaphthylene Benzyl Alcohol Bis(2-chloroethoxy)methane Hexachlorocyclopentadiene n-Nitrosodiphenylamine Naphthalene 4-Nitrophenol Phenol Carbazole
Matrix Spike Duplicate - 2-Methylnaphthalene 2-Nitroaniline 3,3'-Dichlorobenzidine 3-Nitroaniline 4-Chloroaniline 4-Nitroaniline Acenaphthylene Benzyl Alcohol Bis(2-chloroethoxy)methane Hexachlorocyclopentadiene n-Nitrosodiphenylamine 2,4-Dinitrophenol Naphthalene 4-Nitrophenol Phenol Carbazole

PAH by Low Level – SW-846-8270C
Matrix Spike - 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Fluorene
Matrix Spike Duplicate - 1-Methylnaphthalene 2-Methylnaphthalene Fluorene

15. The relative percent difference between the laboratory control sample and laboratory control sample duplicate was outside the project specified limit for the following analytes:

SVOC – SW-846-8270C
3,3-Dichlorobenzidine 3-Nitroaniline 4-Nitroaniline Benzyl alcohol Bis(2-chloroethoxy)methane Naphthalene

PAH by Low Level – SW-846-8270C
Naphthalene Fluorene Acenapthylene 2-Methylnaphthalene 1-Methylnaphthalene

16. The following spike recoveries could not be determined due to high sample concentration:

PAH by Low Level – SW-846-8270C
Matrix Spike/Matrix Spike Duplicate - Naphthalene

Quality Assurance Officer
Camden L. Robinson

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

I Camden Robinson, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (970) 449-8800 if there are any questions or problems with the enclosed electronic deliverables.

Signature: Camden Robinson Title: Q.C. Officer Date: 6/13/01

29917

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Tetra Tech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola, Bldg 1932
Project Number: CTO 140, N0547

For Laboratory Use Only
Custody Seal: Y N Page 1 OF 1
QC Level: N 1 2 3 4 Init/Temp: AGL/2°C
Sample Condition: AAL Lab Project #: 27618

Samplers: (signature): Dan Hartnett
Samplers: (printed): Dan Hartnett

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	Pb (Cd) As	SVOC	PAHs	FL-PRO				Remarks	Accura Sample ID No. AAL
MW-16	5/5/01 1205		X	W	Y	Bldg 1932	12	3	2	1	2	2	2				Hot	13001
MW-8	5/5/01 1550		X	W	Y	" "	12	3	2	1	2	2	2					13002
MW-5	5/5/01 0900		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13003
MW-24D	5/5/01 1645		X	W	Y	" "	12	3	2	1	2	2	2					13004
MW-6	5/5/01 1220		X	W	Y	Bldg 1932	12	3	2	1	2	2	2					13005
MW-20	5/6/01 1205		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13006
MW-2	5/5/01		X	W	Y	" "	15	3	2	1	3	3	3				MS/MSD	13007
EB-2	5/5/01 1615		X	W	Y	" "	12	3	2	1	2	2	2					13008
DUP-3	5/6/01		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13009
Trip Blank				W	Y		2	3										13010

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/7/01 1700	FED EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX	5-8-01 1015	Amanda Knight	5-8-01 1015	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

29917

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Tetra Tech NUS
Billing address:
Address: 1401 Oven Park Dr. Tallahassee
Client P.O. #
Report Sent to: (Client Contact): Gerry Walker
Contact Phone # 850-385-9899 Fax # 850-385-9860
Project Name: NAS Pensacola, Bldg 1932
Project Number: CTO 140, N0547

For Laboratory Use Only
Custody Seal: Y N Page 1 OF 1
QC Level: N 1 2 3 4 Inlet Temp: 8.6°C/2°C
Sample Condition: AAL Lab Project # 27818.

Samplers: (signature): Dan Hartnett
Samplers: (printed): Dan Hartnett

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	VOC	EDB	Pb (ccl) As	5 VOC	PAHs	FL-PRO				Remarks	Accura Sample ID No. AK
MW-16	5/5/01 1205		X	W	Y	Bldg 1932	12	3	2	1	2	2	2				Hot	13001
MW-8	5/5/01 1550		X	W	Y	" "	12	3	2	1	2	2	2					13002
MW-5	5/5/01 0900		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13003
MW-24D	5/5/01 1645		X	W	Y	" "	12	3	2	1	2	2	2					13004
MW-6	5/5/01 1220		X	W	Y	Bldg 1932	12	3	2	1	2	2	2					13005
MW-20	5/6/01 1205		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13006
MW-2	5/6/01		X	W	Y	" "	15	3	2	1	3	3	3				MS/MSD	13007
EB-2	5/5/01 1615		X	W	Y	" "	12	3	2	1	2	2	2					13008
DUP-3	5/6/01		X	W	Y	" "	12	3	2	1	2	2	2				Hot	13009
Trip Blank				W	Y		2	3										13010

AK 14-5-8-01

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Dan Hartnett	5/7/01 1700	FED EX.		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX.	5-8-01 1015	Arnold Right	5-8-01 1015.	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13001** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-16**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	55		1.0
2-Methylnaphthalene	82		1.0
Acenaphthene	6.4		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	8.6		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	53		1.0
Phenanthrene	7.2		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	5.4		1.0

ANALYSIS: SVOC's Navy

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	87		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	6.0	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	5.7	J	10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL		10
Fluorene	9.0	J	10
Hexachlorobenzene	<RL		10
Hexachlorobutadiene	<RL		10
Hexachlorocyclopentadiene	<RL		10
Hexachloroethane	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	52		10
Nitrobenzene	<RL		10
N-Nitroso-di-n-propylamine	<RL		10
N-Nitrosodiphenylamine	<RL		10
Pentachlorophenol	<RL		50
Phenanthrene	<RL		10
Phenol	<RL		10
Pyrene	<RL		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	15		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	1.0		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	30		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	5.7		2.5
Methylene chloride	<RL		1.5
Naphthalene	110		10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	9.5		2
p-Isopropyltoluene	6.8		6
Sec-Butylbenzene	3.4	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	0.64	J	7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	69		
Nitrobenzene-d5	(Range 37-104)	71		
p-Terphenyl-d14	(Range 15-132)	86		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	32	Z	
o-Terphenyl (Range 82-142)	84		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	92		
4-Bromofluorobenzene (80-120)	94		
Toluene-d8 (80-119)	96		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	85		
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	29		
Nitrobenzene-d5	(Range 16-125)	70		
Phenol-d6	(Range 9-109)	47		
p-Terphenyl-d14	(Range 5-157)	79		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13002** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-8**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0028	J	0.050
Lead	0.0071	J	0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	16	10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	14		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	19		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	8.4		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	56		15
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	4.5		2.5
Methylene chloride	<RL		1.5
Naphthalene	150		10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	5.9		2
p-Isopropyltoluene	2.3	J	6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	1.3	J	5.5
Total Xylenes	26		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	76		
Nitrobenzene-d5	(Range 37-104)	73		
p-Terphenyl-d14	(Range 15-132)	102		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	97		
4-Bromofluorobenzene (80-120)	95		
Toluene-d8 (80-119)	96		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	93		
2-Fluorobiphenyl	(Range 21-122)	80		
2-Fluorophenol	(Range 11-114)	24		
Nitrobenzene-d5	(Range 16-125)	79		
Phenol-d6	(Range 9-109)	52		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13003** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-5**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	11		10
2-Methylnaphthalene	3.1	J	10
Acenaphthene	3.9	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	5.6	J	10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	6.1	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	2.0	J	3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	0.87	J	2.5
Methylene chloride	<RL		1.5
Naphthalene	12		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	1.2	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	0.57	J	7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	72		
Nitrobenzene-d5	(Range 37-104)	69		
p-Terphenyl-d14	(Range 15-132)	80		

ANALYSIS: X PRO Sample Surrogates (Water)

Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	4.6	Z	
o-Terphenyl (Range 82-142)	91		

ANALYSIS: X VOC Sample Surrogates-Waters

Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	86		
4-Bromofluorobenzene (80-120)	93		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13004** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee**

Client Contact: GERRY WALKER

Client Project Number: NO547/CTO140

Client Project Name: NAS PENSACOLA, BLDG 1932

Client Sample ID: **MW-24D**

Date Sampled: 5/5/01
Date Received: 5/8/01
Date Reported: 5/30/01
Sample Matrix: WATER

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0013	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.48	JB	1.0

ANALYSIS: SVOC's Navy

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	11		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	2.3	J	5
Trichlorofluoromethane	<RL		4
Vinyl chloride	3.1	J	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	77		
Nitrobenzene-d5	(Range 37-104)	75		
p-Terphenyl-d14	(Range 15-132)	112		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	16	Z	
o-Terphenyl (Range 82-142)	82		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	91		
4-Bromofluorobenzene (80-120)	99		
Toluene-d8 (80-119)	98		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	92		
2-Fluorobiphenyl	(Range 21-122)	79		
2-Fluorophenol	(Range 11-114)	31		
Nitrobenzene-d5	(Range 16-125)	81		
Phenol-d6	(Range 9-109)	57		
p-Terphenyl-d14	(Range 5-157)	106		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13005** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-6**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0015	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		10
2-Methylnaphthalene	<RL		10
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	<RL		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	<RL		10
Phenanthrene	<RL		10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	10		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	<RL		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Naphthalene	<RL	100
Nitrobenzene	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	85		
Nitrobenzene-d5	(Range 37-104)	77		
p-Terphenyl-d14	(Range 15-132)	88		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	87		
4-Bromofluorobenzene (80-120)	96		
Toluene-d8 (80-119)	97		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13006** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/6/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **MW-20**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0025	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	110		10
2-Methylnaphthalene	160		10
Acenaphthene	9.8	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	13		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	130		10
Phenanthrene	8.9	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	26		10

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	160		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Naphthalene	130	100
Nitrobenzene	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	2.9	J	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	3.7		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	19		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	55		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	8.4		2.5
Methylene chloride	<RL		1.5
Naphthalene	190		10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	13		2
p-Isopropyltoluene	2.2	J	6
Sec-Butylbenzene	3.7	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	0.80	J	7
Tetrachloroethylene	<RL		7
Toluene	0.56	J	5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	88		
Nitrobenzene-d5	(Range 37-104)	102		
p-Terphenyl-d14	(Range 15-132)	77		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	86		
4-Bromofluorobenzene (80-120)	94		
Toluene-d8 (80-119)	95		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13007** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee**

Client Contact: GERRY WALKER

Client Project Number: NO547/CTO140

Client Project Name: NAS PENSACOLA, BLDG 1932

Client Sample ID: **MW-2**

Date Sampled: 5/6/01
Date Received: 5/8/01
Date Reported: 5/30/01
Sample Matrix: WATER

ANALYSIS: EDB

Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals

Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0016	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/22/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	35		5.0
2-Methylnaphthalene	40		5.0
Acenaphthene	6.6		5.0
Acenaphthylene	<RL		5.0
Anthracene	<RL		5.0
Benzo(a)anthracene	<RL		5.0
Benzo(a)pyrene	<RL		5.0
Benzo(b)fluoranthene	<RL		5.0
Benzo(g,h,i)perylene	<RL		5.0
Benzo(k)fluoranthene	<RL		5.0
Chrysene	<RL		5.0
Dibenz(a,h)anthracene	<RL		5.0
Fluoranthene	<RL		5.0
Fluorene	6.7		5.0
Indeno(1,2,3-cd)pyrene	<RL		5.0
Naphthalene	64		5.0
Phenanthrene	2.9	J	5.0
Pyrene	<RL		5.0

ANALYSIS: Petroleum Range Organics (PRO)

Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.50	JB	1.0

ANALYSIS: SVOC's Navy

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		50
1,2-Dichlorobenzene	<RL		50
1,3-Dichlorobenzene	<RL		50
1,4-Dichlorobenzene	<RL		50
2,4,5-Trichlorophenol	<RL		250
2,4,6-Trichlorophenol	<RL		50
2,4-Dichlorophenol	<RL		50
2,4-Dimethylphenol	<RL		50
2,4-Dinitrophenol	<RL		250
2,4-Dinitrotoluene	<RL		50
2,6-Dinitrotoluene	<RL		50
2-Chloronaphthalene	<RL		50
2-Chlorophenol	<RL		50
2-Methylnaphthalene	39	J	50
2-Methylphenol	<RL		50
2-Nitroaniline	<RL		250
2-Nitrophenol	<RL		50
3,3'-Dichlorobenzidine	<RL		100
3,4-Methylphenol	39	J	100
3-Nitroaniline	<RL		250
4,6-Dinitro-2-methylphenol	<RL		250
4-Bromophenyl phenyl ether	<RL		50
4-Chloro-3-methylphenol	<RL		100
4-Chloroaniline	<RL		100
4-Chlorophenyl phenyl ether	<RL		50
4-Nitroaniline	<RL		250
4-Nitrophenol	16	J	250
Acenaphthene	<RL		50
Acenaphthylene	<RL		50
Anthracene	<RL		50
Benzo(a)anthracene	<RL		50
Benzo(a)pyrene	<RL		50
Benzo(b)fluoranthene	<RL		50
Benzo(g,h,i)perylene	<RL		50
Benzo(k)fluoranthene	<RL		50
Benzoic acid	<RL		250
Benzyl alcohol	<RL		100
bis(2-Chloroethoxy)methane	<RL		50
bis(2-Chloroethyl)ether	<RL		50
bis(2-Chloroisopropyl)ether	<RL		50
bis(2-Ethylhexyl)phthalate	<RL		50
Butyl benzyl phthalate	<RL		50
Carbazole	<RL		50
Chrysene	<RL		50
Dibenz(a,h)anthracene	<RL		50
Dibenzofuran	<RL		50
Diethylphthalate	<RL		50
Dimethylphthalate	<RL		50
Di-n-butylphthalate	<RL		50
Di-n-octylphthalate	<RL		50

Fluoranthene	<RL		50
Fluorene	<RL		50
Hexachlorobenzene	<RL		50
Hexachlorobutadiene	<RL		50
Hexachlorocyclopentadiene	<RL		50
Hexachloroethane	<RL		50
Indeno(1,2,3-cd)pyrene	<RL		50
Naphthalene	62		50
Nitrobenzene	<RL		50
N-Nitroso-di-n-propylamine	<RL		50
N-Nitrosodiphenylamine	<RL		50
Pentachlorophenol	<RL		250
Phenanthrene	<RL		50
Phenol	7.1	J	50
Pyrene	<RL		50

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/22/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	72		
Nitrobenzene-d5	(Range 37-104)	74		
p-Terphenyl-d14	(Range 15-132)	64		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	16	Z	
o-Terphenyl (Range 82-142)	85		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	115		
4-Bromofluorobenzene (80-120)	117		
Toluene-d8 (80-119)	118		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	99		
2-Fluorobiphenyl	(Range 21-122)	68		
2-Fluorophenol	(Range 11-114)	17		
Nitrobenzene-d5	(Range 16-125)	66		
Phenol-d6	(Range 9-109)	40		
p-Terphenyl-d14	(Range 5-157)	75		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13008** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **EB-2**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.55	JB	1.0

ANALYSIS: SVOC's Navy

Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.64	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.4	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	0.73	J	5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	79		
Nitrobenzene-d5	(Range 37-104)	70		
p-Terphenyl-d14	(Range 15-132)	107		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	23	Z	
o-Terphenyl (Range 82-142)	78	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	112		
4-Bromofluorobenzene (80-120)	114		
Toluene-d8 (80-119)	112		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	82		
2-Fluorobiphenyl	(Range 21-122)	76		
2-Fluorophenol	(Range 11-114)	51		
Nitrobenzene-d5	(Range 16-125)	74		
Phenol-d6	(Range 9-109)	20		
p-Terphenyl-d14	(Range 5-157)	99		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13009** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/6/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **DUP-3**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	0.0023	J	0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	110		10
2-Methylnaphthalene	170		10
Acenaphthene	9.6	J	10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Fluoranthene	<RL		10
Fluorene	14		10
Indeno(1,2,3-cd)pyrene	<RL		10
Naphthalene	130		10
Phenanthrene	9.0	J	10
Pyrene	<RL		10

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		100
1,2-Dichlorobenzene	<RL		100
1,3-Dichlorobenzene	<RL		100
1,4-Dichlorobenzene	<RL		100
2,4,5-Trichlorophenol	<RL		500
2,4,6-Trichlorophenol	<RL		100
2,4-Dichlorophenol	<RL		100
2,4-Dimethylphenol	<RL		100
2,4-Dinitrophenol	<RL		500
2,4-Dinitrotoluene	<RL		100
2,6-Dinitrotoluene	<RL		100
2-Chloronaphthalene	<RL		100
2-Chlorophenol	<RL		100
2-Methylnaphthalene	160		100
2-Methylphenol	<RL		100
2-Nitroaniline	<RL		500
2-Nitrophenol	<RL		100
3,3'-Dichlorobenzidine	<RL		200
3,4-Methylphenol	<RL		200
3-Nitroaniline	<RL		500
4,6-Dinitro-2-methylphenol	<RL		500
4-Bromophenyl phenyl ether	<RL		100
4-Chloro-3-methylphenol	<RL		200
4-Chloroaniline	<RL		200
4-Chlorophenyl phenyl ether	<RL		100
4-Nitroaniline	<RL		500
4-Nitrophenol	<RL		500
Acenaphthene	<RL		100
Acenaphthylene	<RL		100
Anthracene	<RL		100
Benzo(a)anthracene	<RL		100
Benzo(a)pyrene	<RL		100
Benzo(b)fluoranthene	<RL		100
Benzo(g,h,i)perylene	<RL		100
Benzo(k)fluoranthene	<RL		100
Benzoic acid	<RL		500
Benzyl alcohol	<RL		200
bis(2-Chloroethoxy)methane	<RL		100
bis(2-Chloroethyl)ether	<RL		100
bis(2-Chloroisopropyl)ether	<RL		100
bis(2-Ethylhexyl)phthalate	<RL		100
Butyl benzyl phthalate	<RL		100
Carbazole	<RL		100
Chrysene	<RL		100
Dibenz(a,h)anthracene	<RL		100
Dibenzofuran	<RL		100
Diethylphthalate	<RL		100
Dimethylphthalate	<RL		100
Di-n-butylphthalate	<RL		100
Di-n-octylphthalate	<RL		100

Fluoranthene	<RL	100
Fluorene	<RL	100
Hexachlorobenzene	<RL	100
Hexachlorobutadiene	<RL	100
Hexachlorocyclopentadiene	<RL	100
Hexachloroethane	<RL	100
Indeno(1,2,3-cd)pyrene	<RL	100
Naphthalene	120	100
Nitrobenzene	<RL	100
N-Nitroso-di-n-propylamine	<RL	100
N-Nitrosodiphenylamine	<RL	100
Pentachlorophenol	<RL	500
Phenanthrene	<RL	100
Phenol	<RL	100
Pyrene	<RL	100

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	3.9	J	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	4.1		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	17		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	39		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	7.6		2.5
Methylene chloride	<RL		1.5
Naphthalene	210	E	10
n-Butylbenzene	<RL		5.5
n-Propylbenzene	12		2
p-Isopropyltoluene	2.0	J	6
Sec-Butylbenzene	3.4	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	0.69	J	7
Tetrachloroethylene	<RL		7
Toluene	0.54	J	5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X B/N Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/21/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 43-111)	86		
Nitrobenzene-d5	(Range 37-104)	87		
p-Terphenyl-d14	(Range 15-132)	58		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	<RL	DO	
o-Terphenyl (Range 82-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	79	Z	
4-Bromofluorobenzene (80-120)	88		
Toluene-d8 (80-119)	89		

ANALYSIS: X SVOC Sample Surrogates (Waters Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 28-142)	<RL	DO	
2-Fluorobiphenyl	(Range 21-122)	<RL	DO	
2-Fluorophenol	(Range 11-114)	<RL	DO	
Nitrobenzene-d5	(Range 16-125)	<RL	DO	
Phenol-d6	(Range 9-109)	<RL	DO	
p-Terphenyl-d14	(Range 5-157)	<RL	DO	

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13010** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/5/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **TRIP BLANK**

ANALYSIS: **VOC's Navy (25 ml purge)** Method Ref: 8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	5.6		1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	2.1	J	5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/16/01 Date Analyzed: 5/16/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	109		
4-Bromofluorobenzene (80-120)	115		
Toluene-d8 (80-119)	106		

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC13011** **Accura Project #:** **27818**

Client: **Tetra Tech Nus -Tallahassee** Date Sampled: 5/8/01

Client Contact: GERRY WALKER Date Received: 5/8/01

Client Project Number: NO547/CTO140 Date Reported: 5/30/01

Client Project Name: NAS PENSACOLA, BLDG 1932 Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: EDB Method Ref: 504.1

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/15/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dibromoethane (EDB)	<RL		0.05

ANALYSIS: Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 5/23/01 Date Analyzed: 5/25/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		0.050
Cadmium	<RL		0.0050
Chromium	<RL		0.050
Lead	<RL		0.010

ANALYSIS: PAH's - Low Level Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnaphthalene	<RL		1.0
2-Methylnaphthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		1.0
Anthracene	<RL		1.0
Benzo(a)anthracene	<RL		1.0
Benzo(a)pyrene	<RL		1.0
Benzo(b)fluoranthene	<RL		1.0
Benzo(g,h,i)perylene	<RL		1.0
Benzo(k)fluoranthene	<RL		1.0
Chrysene	<RL		1.0
Dibenz(a,h)anthracene	<RL		1.0
Fluoranthene	<RL		1.0
Fluorene	<RL		1.0
Indeno(1,2,3-cd)pyrene	<RL		1.0
Naphthalene	<RL		1.0
Phenanthrene	<RL		1.0
Pyrene	<RL		1.0

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

Petroleum Range Organics (PRO)	0.49	J	1.0

ANALYSIS: SVOC's Navy Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		10
1,2-Dichlorobenzene	<RL		10
1,3-Dichlorobenzene	<RL		10
1,4-Dichlorobenzene	<RL		10
2,4,5-Trichlorophenol	<RL		50
2,4,6-Trichlorophenol	<RL		10
2,4-Dichlorophenol	<RL		10
2,4-Dimethylphenol	<RL		10
2,4-Dinitrophenol	<RL		50
2,4-Dinitrotoluene	<RL		10
2,6-Dinitrotoluene	<RL		10
2-Chloronaphthalene	<RL		10
2-Chlorophenol	<RL		10
2-Methylnaphthalene	<RL		10
2-Methylphenol	<RL		10
2-Nitroaniline	<RL		50
2-Nitrophenol	<RL		10
3,3'-Dichlorobenzidine	<RL		20
3,4-Methylphenol	<RL		20
3-Nitroaniline	<RL		50
4,6-Dinitro-2-methylphenol	<RL		50
4-Bromophenyl phenyl ether	<RL		10
4-Chloro-3-methylphenol	<RL		20
4-Chloroaniline	<RL		20
4-Chlorophenyl phenyl ether	<RL		10
4-Nitroaniline	<RL		50
4-Nitrophenol	<RL		50
Acenaphthene	<RL		10
Acenaphthylene	<RL		10
Anthracene	<RL		10
Benzo(a)anthracene	<RL		10
Benzo(a)pyrene	<RL		10
Benzo(b)fluoranthene	<RL		10
Benzo(g,h,i)perylene	<RL		10
Benzo(k)fluoranthene	<RL		10
Benzoic acid	<RL		50
Benzyl alcohol	<RL		20
bis(2-Chloroethoxy)methane	<RL		10
bis(2-Chloroethyl)ether	<RL		10
bis(2-Chloroisopropyl)ether	<RL		10
bis(2-Ethylhexyl)phthalate	<RL		10
Butyl benzyl phthalate	<RL		10
Carbazole	<RL		10
Chrysene	<RL		10
Dibenz(a,h)anthracene	<RL		10
Dibenzofuran	<RL		10
Diethylphthalate	<RL		10
Dimethylphthalate	<RL		10
Di-n-butylphthalate	<RL		10
Di-n-octylphthalate	<RL		10

Fluoranthene	<RL	10
Fluorene	<RL	10
Hexachlorobenzene	<RL	10
Hexachlorobutadiene	<RL	10
Hexachlorocyclopentadiene	<RL	10
Hexachloroethane	<RL	10
Indeno(1,2,3-cd)pyrene	<RL	10
Naphthalene	<RL	10
Nitrobenzene	<RL	10
N-Nitroso-di-n-propylamine	<RL	10
N-Nitrosodiphenylamine	<RL	10
Pentachlorophenol	<RL	50
Phenanthrene	<RL	10
Phenol	<RL	10
Pyrene	<RL	10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X Base Neutral OC Surrogates (W Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/20/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2-Fluorobiphenyl	(Range 27-121)	80		
Nitrobenzene-d5	(Range 24-114)	81		
p-Terphenyl-d14	(Range 28-139)	94		

ANALYSIS: X PRO OC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/10/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	33	Z	
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC OC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/14/01 Date Analyzed: 5/14/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	96		
4-Bromofluorobenzene (81-118)	111		
Toluene-d8 (84-115)	108		

ANALYSIS: X SVOC OC Surrogates (Waters) Method Ref: 8270C

Date Ext/Dig/Prep: 5/11/01 Date Analyzed: 5/17/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 25-127)	83		
2-Fluorobiphenyl	(Range 27-121)	70		
2-Fluorophenol	(Range 24-101)	66		
Nitrobenzene-d5	(Range 24-114)	73		
Phenol-d6	(Range 26-104)	72		
p-Terphenyl-d14	(Range 28-139)	94		

PROJECT QUALITY CONTROL RESULTS
AAL #27818

Method No[1]	Analyte / Component	Project Control Rec. MS Water	Project Control Rec. MSD Water	Project Control Rec. MS Soil[2]	Project Control Rec. MSD Soil[2]	Accuracy Limits MS/MSD Recoveries Water	Accuracy Limits MS/MSD Recoveries Soil[2]	Project Control MS/MSD % Deviation Water	Project Control MS/MSD % Deviation Soil[2]	Precision Limits MS/MSD Deviation Water	Precision Limits MS/MSD Deviation Soil[2]	Project Control Recoveries LCS Water	Project Control Recoveries LCS Soil[2]	Accuracy Limits LCS Recoveries Water	Accuracy Limits LCS Recoveries Soil[2]	Project Control Field Dup % Deviation Water	Project Control Field Dup % Deviation Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%		
8260B	1,1,1,2-Tetrachloroethane	116	114			60-140	20-150	1%	#VALUE!	<30	<50	103		62-108	62-108		
8260B	1,1,1-Trichloroethane	104	102			60-140	20-150	1%	#VALUE!	<30	<50	95		65-135	65-135		
8260B	1,1,2,2-Tetrachloroethane	96	99			60-140	20-150	3%	#VALUE!	<30	<50	105		64-135	64-135		
8260B	1,1,2-Trichloroethane	109	113			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	1,1-Dichloroethane	102	102			60-140	20-150	1%	#VALUE!	<30	<50	98		62-135	62-135		
8260B	1,1-Dichloroethene	96	97			60-140	20-150	1%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	1,2,3-Trichlorobenzene	98	121			60-140	20-150	21%	#VALUE!	<30	<50	100		65-147	65-147		
8260B	1,2,3-Trichloropropane	115	102			60-140	20-150	12%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2,4-Trichlorobenzene	115	119			60-140	20-150	4%	#VALUE!	<30	<50	102		65-145	65-145		
8260B	1,2,4-Trimethylbenzene	103	105			60-140	20-150	1%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2-Dichloroethane	106	108			60-140	20-150	2%	#VALUE!	<30	<50	93		58-137	58-137		
8260B	1,2-Dichlorobenzene	102	106			60-140	20-150	3%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	1,2-Dibromo-3-chloropropane	154	136			60-140	20-150	13%	#VALUE!	<30	<50	99		49-135	49-135		
8260B	1,2-Dichloropropane	95	97			60-140	20-150	2%	#VALUE!	<30	<50	100		60-135	60-135		
8260B	1,2-Ethylene Dibromide	118	120			60-140	20-150	1%	#VALUE!	<30	<50	105		65-135	65-135		
8260B	1,3,5-Trimethylbenzene	100	102			60-140	20-150	2%	#VALUE!	<30	<50	101		62-135	62-135		
8260B	1,3-Dichlorobenzene	99	103			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	1,3-Dichloropropane	82	81			60-140	20-150	2%	#VALUE!	<30	<50	98		65-135	65-135		
8260B	1,4-Dichlorobenzene	99	103			60-140	20-150	4%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	2,2-Dichloropropane	82	81			60-140	20-150	2%	#VALUE!	<30	<50	98		65-135	65-135		
8260B	2-Chlorotoluene	97	101			60-140	20-150	4%	#VALUE!	<30	<50	100		63-135	63-135		
8260B	4-Chlorotoluene	105	107			60-140	20-150	2%	#VALUE!	<30	<50	102		64-135	64-135		
8260B	Benzene	92	94			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	Bromobenzene	98	102			60-140	20-150	4%	#VALUE!	<30	<50	101		65-135	65-135		
8260B	Bromochloromethane	97	97			60-140	20-150	0%	#VALUE!	<30	<50	103		63-135	63-135		
8260B	Bromodichloromethane	112	112			60-140	20-150	0%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Bromoform	106	106			60-140	20-150	0%	#VALUE!	<30	<50	94		65-135	65-135		
8260B	Bromomethane	62	68			60-140	20-150	10%	#VALUE!	<30	<50	85		62-135	62-135		
8260B	Carbon Tetrachloride	108	106			60-140	20-150	1%	#VALUE!	<30	<50	98		52-135	52-135		
8260B	Chlorobenzene	98	100			60-140	20-150	2%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	Chloroethane	92	91			60-140	20-150	1%	#VALUE!	<30	<50	92		55-135	55-135		
8260B	Chloroform	100	102			60-140	20-150	1%	#VALUE!	<30	<50	98		64-135	64-135		
8260B	Chloromethane	76	77			60-140	20-150	1%	#VALUE!	<30	<50	95		65-135	65-135		
8260B	Cis-1,2-Dichloroethene	93	95			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	Cis-1,3-Dichloropropene	93	93			60-140	20-150	1%	#VALUE!	<30	<50	99		64-135	64-135		
8260B	Dibromochloromethane	112	114			60-140	20-150	2%	#VALUE!	<30	<50	96		63-135	63-135		
8260B	Dibromomethane	110	112			60-140	20-150	2%	#VALUE!	<30	<50	104		59-137	59-137		
8260B	Dichlorodifluoromethane	85	84			60-140	20-150	2%	#VALUE!	<30	<50	84		65-135	65-135		
8260B	Ethylbenzene	102	104			60-140	20-150	1%	#VALUE!	<30	<50	101		65-135	65-135		
8260B	Hexachlorobutadiene	126	131			60-140	20-150	3%	#VALUE!	<30	<50	106		65-135	65-135		
8260B	Isopropylbenzene	90	92			60-140	20-150	2%	#VALUE!	<30	<50	100		65-135	65-135		
8260B	total-Xylene	102	102			60-140	20-150	1%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	Methylene Chloride	103	112			60-140	20-150	8%	#VALUE!	<30	<50	100		65-135	65-135		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27818

8260B	n-Butylbenzene	103	104			60-140	20-150	1%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	n-Propylbenzene	93	95			60-140	20-150	3%	#VALUE!	<30	<50	102		65-135	65-135		
8260B	Naphthalene	149	140			60-140	20-150	6%	#VALUE!	<30	<50	107		65-135	65-135		
8260B	p-Isopropyltoluene	99	101			60-140	20-150	2%	#VALUE!	<30	<50	104		65-135	65-135		
8260B	Sec-Butylbenzene	94	98			60-140	20-150	4%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Styrene	106	104			60-140	20-150	2%	#VALUE!	<30	<50	107		65-135	65-135		
8260B	Trichloroethylene	97	100			60-140	20-150	3%	#VALUE!	<30	<50	100		61-135	61-135		
8260B	Tert-Butylbenzene	96	98			60-140	20-150	2%	#VALUE!	<30	<50	103		65-135	65-135		
8260B	Tetrachloroethylene	102	104			60-140	20-150	2%	#VALUE!	<30	<50	98		61-135	61-135		
8260B	Toluene	98	102			60-140	20-150	4%	#VALUE!	<30	<50	98		64-135	64-135		
8260B	Trans-1,2-Dichloroethene	93	96			60-140	20-150	4%	#VALUE!	<30	<50	99		65-135	65-135		
8260B	Trans-1,3-Dichloropropene	103	100			60-140	20-150	3%	#VALUE!	<30	<50	96		56-135	56-135		
8260B	Trichlorofluoromethane	107	106			60-140	20-150	0%	#VALUE!	<30	<50	91		57-135	57-135		
8260B	Vinyl Chloride	86	87			60-140	20-150	1%	#VALUE!	<30	<50	91		36-144	36-144		
8260B	Toluene-d8 (surr)	101	101			75-125	65-135	1%	#VALUE!	NA	NA	97		NA	NA		
8260B	4-Bromofluorobenzene (surr)	105	107			75-1225	65-135	2%	#VALUE!	NA	NA	98		NA	NA		
8260B	1,2-Dichloroethane-d4 (surr)	111	113			62-139	52-149	2%	#VALUE!	NA	NA	92		NA	NA		
	SEMI-VOLATILES BY GC/MS					%	%			%	%			%	%		
8270C	1,2,4-Trichlorobenzene	78	76			60-140	20-150	3%	#DIV/0!	<30	<50	87		44-142	34-152		
8270C	1,2-Dichlorobenzene	72	74			60-140	20-150	3%	#DIV/0!	<30	<50	85		42-155	32-135		
8270C	1,3-Dichlorobenzene	70	70			60-140	20-150	0%	#DIV/0!	<30	<50	82		36-125	26-135		
8270C	1,4-Dichlorobenzene	67	75			60-140	20-150	11%	#DIV/0!	<30	<50	82		30-125	25-135		
8270C	2,4-Dinitrotoluene	83	86			60-140	20-150	4%	#DIV/0!	<30	<50	117		39-139	29-149		
8270C	2,6-Dinitrotoluene	81	79			60-140	20-150	3%	#DIV/0!	<30	<50	110		51-125	41-135		
8270C	2-Chloronaphthalene	71	74			60-140	20-150	4%	#DIV/0!	<30	<50	95		60-125	50-135		
8270C	2-Methylnaphthalene	4	4			60-140	20-150	0%	#DIV/0!	<30	<50	96		41-125	31-135		
8270C	2-Nitroaniline	28	24			60-140	20-150	15%	#DIV/0!	<30	<50	39		50-125	40-135		
8270C	3,3'-Dichlorobenzidine	0	0			60-140	20-150	#DIV/0!	#DIV/0!	<30	<50	2		29-175	25-175		
8270C	3-Nitroaniline	0	0			60-140	20-150	#DIV/0!	#DIV/0!	<30	<50	18		51-125	41-135		
8270C	4-Bromophenyl-phenyl ether	89	94			60-140	20-150	5%	#DIV/0!	<30	<50	109		53-127	43-137		
8270C	4-Chloroaniline	29	31			60-140	20-150	7%	#DIV/0!	<30	<50	32		45-136	35-146		
8270C	4-Chlorophenyl-phenyl ether	96	99			60-140	20-150	3%	#DIV/0!	<30	<50	112		51-132	41-142		
8270C	4-Nitroaniline	1	0			60-140	20-150	200%	#DIV/0!	<30	<50	3		40-143	30-153		
8270C	Acenaphthylene	29	29			60-140	20-150	0%	#DIV/0!	<30	<50	74		47-125	37-135		
8270C	Acenaphthene	83	86			60-140	20-150	4%	#DIV/0!	<30	<50	102		49-124	39-135		
8270C	Anthracene	82	84			60-140	20-150	2%	#DIV/0!	<30	<50	108		45-165	35-175		
8270C	Benzo (a) anthracene	85	86			60-140	20-150	1%	#DIV/0!	<30	<50	107		51-133	41-143		
8270C	Benzo (a) pyrene	88	86			60-140	20-150	2%	#DIV/0!	<30	<50	93		41-125	31-135		
8270C	Benzo (b) fluoranthene	89	116			60-140	20-150	26%	#DIV/0!	<30	<50	105		37-125	27-135		
8270C	Benzo (g,h,i) perylene	85	81			60-140	20-150	5%	#DIV/0!	<30	<50	100		34-149	25-159		
8270C	Benzyl alcohol	7	0			60-140	20-150	200%	#DIV/0!	<30	<50	77		35-125	25-135		
8270C	Bis (2-chloroethoxy) methane	5	3			60-140	20-150	50%	#DIV/0!	<30	<50	15		49-125	39-135		
8270C	Bis (2-chloroethyl) ether	80	79			60-140	20-150	1%	#DIV/0!	<30	<50	98		44-125	34-135		
8270C	Bis (2-chloroisopropyl) ether	83	86			60-140	20-150	4%	#DIV/0!	<30	<50	96		36-166	26-175		
8270C	Bis (2-ethylhexyl) phthalate	127	122			60-140	20-150	4%	#DIV/0!	<30	<50	116		33-129	25-139		
8270C	Butyl benzyl phthalate	92	93			60-140	20-150	1%	#DIV/0!	<30	<50	118		26-125	25-135		
8270C	Chrysene	96	91			60-140	20-150	5%	#DIV/0!	<30	<50	110		55-133	45-143		
8270C	Di-n-butyl phthalate	99	94			60-140	20-150	5%	#DIV/0!	<30	<50	115		34-126	25-136		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27818

8270C	Di-n-octyl phthalate	103	114			60-140	20-150	10%	#DIV/0!	<30	<50	110		38-127	28-137		
8270C	Dibenzo (a,h) anthracene	92	91			60-140	20-150	1%	#DIV/0!	<30	<50	103		50-125	40-135		
8270C	Dibenzofuran	88	90			60-140	20-150	2%	#DIV/0!	<30	<50	107		52-125	42-135		
8270C	Diethyl phthalate	102	99			60-140	20-150	3%	#DIV/0!	<30	<50	120		37-125	27-135		
8270C	Dimethyl phthalate	84	90			60-140	20-150	7%	#DIV/0!	<30	<50	113		25-175	25-175		
8270C	Fluoranthene	96	96			60-140	20-150	0%	#DIV/0!	<30	<50	115		47-125	37-135		
8270C	Fluorene	98	96			60-140	20-150	2%	#DIV/0!	<30	<50	113		48-139	38-149		
8270C	Hexachlorobenzene	93	97			60-140	20-150	4%	#DIV/0!	<30	<50	107		46-133	36-143		
8270C	Hexachlorobutadiene	76	77			60-140	20-150	1%	#DIV/0!	<30	<50	84		25-125	25-135		
8270C	Hexachlorocyclopentadiene	14	15			60-140	20-150	7%	#DIV/0!	<30	<50	12		41-125	31-135		
8270C	Hexachloroethane	66	73			60-140	20-150	10%	#DIV/0!	<30	<50	79		25-153	25-163		
8270C	Indeno (1,2,3-c,d) pyrene	93	82			60-140	20-150	13%	#DIV/0!	<30	<50	105		27-160	25-170		
8270C	Isophorone	92	91			60-140	20-150	1%	#DIV/0!	<30	<50	106		26-175	25-175		
8270C	N-Nitrosodi-n-propylamine	88	90			60-140	20-150	2%	#DIV/0!	<30	<50	101		37-125	27-135		
8270C	N-Nitrosodiphenylamine	5	4			60-140	20-150	22%	#DIV/0!	<30	<50	29		27-125	25-135		
8270C	Naphthalene	0	0			60-140	20-150	#DIV/0!	#DIV/0!	<30	<50	91		50-125	40-135		
8270C	Nitrobenzene	110	107			60-140	20-150	3%	#DIV/0!	<30	<50	101		46-133	36-143		
8270C	Phenanthrene	95	96			60-140	20-150	1%	#DIV/0!	<30	<50	110		54-125	44-135		
8270C	Pyrene	105	99			60-140	20-150	6%	#DIV/0!	<30	<50	116		47-136	37-146		
8270C	2,4,5-Trichlorophenol	73	84			60-140	20-150	14%	#DIV/0!	<30	<50	101		25-175	25-175		
8270C	2,4,6-Trichlorophenol	73	84			60-140	20-150	14%	#DIV/0!	<30	<50	101		39-128	29-138		
8270C	2,4-Dichlorophenol	72	73			60-140	20-150	1%	#DIV/0!	<30	<50	95		46-125	36-135		
8270C	2,4-Dimethylphenol	81	80			60-140	20-150	1%	#DIV/0!	<30	<50	105		45-139	35-149		
8270C	2,4-Dinitrophenol	73	59			60-140	20-150	21%	#DIV/0!	<30	<50	99		30-151	25-161		
8270C	2-Chlorophenol	66	64			60-140	20-150	3%	#DIV/0!	<30	<50	78		41-125	31-135		
8270C	2-Methylphenol	74	68			60-140	20-150	8%	#DIV/0!	<30	<50	86		25-125	25-135		
8270C	2-Nitrophenol	82	76			60-140	20-150	8%	#DIV/0!	<30	<50	93		44-125	34-135		
8270C	4,6-Dinitro-2-methyl phenol	66	68			60-140	20-150	3%	#DIV/0!	<30	<50	103		26-134	25-144		
8270C	4-Chloro-3-methyl phenol	88	85			60-140	20-150	3%	#DIV/0!	<30	<50	111		44-125	34-135		
8270C	4-Methylphenol	92	86			60-140	20-150	7%	#DIV/0!	<30	<50	87		33-125	25-135		
8270C	4-Nitrophenol	53	44			60-140	20-150	19%	#DIV/0!	<30	<50	119		25-131	25-141		
8270C	Benzoic acid	72	70			60-140	20-150	3%	#DIV/0!	<30	<50	106		25-162	25-172		
8270C	Pentachlorophenol	102	97			60-140	20-150	5%	#DIV/0!	<30	<50	120		28-136	38-146		
8270C	Phenol	48	48			60-140	20-150	0%	#DIV/0!	<30	<50	74		25-125	25-135		
8270C	3-Methylphenol	92	86			60-140	20-150	7%	#DIV/0!	<30	<50	87		25-125	25-135		
8270C	Benzo (k) fluoranthene	106	106			60-140	20-150	0%	#DIV/0!	<30	<50	98		37-123	37-123		
8270C	Carbazole	27	25			60-140	20-150	8%	#DIV/0!	<30	<50	63		34-132	34-132		
8270C	2,4,6-Tribromophenol	153	155			25-134	19-122	1%	#DIV/0!			93					
8270C	2-Fluorobiphenyl	64	66			43-125	34-135	3%	#DIV/0!			83					
8270C	2-Fluorophenol	66	69			25-125	25-135	4%	#DIV/0!			48					
8270C	Nitrobenzene-d5	65	63			32-125	25-135	3%	#DIV/0!			80					
8270C	Phenol-d5	78	82			25-125	25-135	5%	#DIV/0!			42					
8270C	Terphenyl-d14	88	86			42-126	32-136	2%	#DIV/0!			96					
	METALS BY ICP					%	%			%	%			%	%		
6010B	Arsenic	111	108			50-150	30-170	3%	#DIV/0!	<30	<50	110		79-115	79-115		
6010B	Cadmium	104	101			50-150	30-170	3%	#DIV/0!	<30	<50	108		78-118	78-118		
6010B	Chromium	106	103			50-150	30-170	3%	#DIV/0!	<30	<50	106		82-115	82-115		
6010B	Lead	112	109			50-150	30-170	3%	#DIV/0!	<30	<50	110		79-116	79-116		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL #27818

	PETROLEUM HYDROCARBONS					%	%			%	%			%	%		
FL-PRO	TPH	53	58			50-150	30-170	9%	#DIV/0!	<30	<50	65		75-125	70-130		
	LOW LEVEL PAH'S BY GC/MS					%	%			%	%			%	%		
8270C	1-Methylnaphthalene	13	25			41-125	31-135	63%	#DIV/0!	<30	<50	87		41-125	31-135		
8270C	2-Methylnaphthalene	7.1	20			41-125	31-135	95%	#DIV/0!	<30	<50	96		41-125	31-135		
8270C	Acenaphthylene	32	103			47-125	37-135	105%	#DIV/0!	<30	<50	74		47-125	37-135		
8270C	Acenaphthene	79	94			49-124	39-135	17%	#DIV/0!	<30	<50	96		49-124	39-135		
8270C	Anthracene	85	96			45-165	35-175	12%	#DIV/0!	<30	<50	102		45-165	35-175		
8270C	Benzo (a) anthracene	94	107			51-133	41-143	13%	#DIV/0!	<30	<50	110		51-133	41-143		
8270C	Benzo (a) pyrene	79	94			41-125	31-135	17%	#DIV/0!	<30	<50	122		41-125	31-135		
8270C	Benzo (b) fluoranthene	106	114			37-125	27-135	7%	#DIV/0!	<30	<50	116		37-125	27-135		
8270C	Benzo (g,h,i) perylene	94	100			34-149	25-159	6%	#DIV/0!	<30	<50	114		34-149	25-159		
8270C	Benzo (k) fluoranthene	95	102			37-123	37-123	7%	#DIV/0!	<30	<50	102		37-123	37-123		
8270C	Chrysene	93	106			55-133	45-143	13%	#DIV/0!	<30	<50	106		55-133	45-143		
8270C	Dibenzo (a,h) anthracene	120	122			50-125	40-135	2%	#DIV/0!	<30	<50	104		50-125	40-135		
8270C	Fluoranthene	107	117			47-125	37-135	9%	#DIV/0!	<30	<50	114		47-125	37-135		
8270C	Fluorene	35	50			48-139	38-149	35%	#DIV/0!	<30	<50	110		48-139	38-149		
8270C	Indeno (1,2,3-c,d) pyrene	95	99			27-160	25-170	4%	#DIV/0!	<30	<50	118		27-160	25-170		
8270C	Naphthalene	0	0			50-125	40-135	#DIV/0!	#DIV/0!	<30	<50	92		50-125	40-135		
8270C	Phenanthrene	92	103			54-125	44-135	11%	#DIV/0!	<30	<50	106		54-125	44-135		
8270C	Pyrene	95	110			47-136	37-146	15%	#DIV/0!	<30	<50	112		47-136	37-146		
8270C	2-Fluorobiphenyl	74	86			43-125	34-135	15%	#DIV/0!	<30	<50	79					
8270C	Nitrobenzene-d5	71	81			32-125	25-135	13%	#DIV/0!	<30	<50	81					
8270C	Terphenyl-d14	76	88			42-126	32-136	15%	#DIV/0!	<30	<50	93					
	EDB					%	%			%	%			%	%		
504.1	1,2-Dibromoethane	120	114			60-140	20-150	5%	#VALUE!	<30	<50	95		62-108	62-108		

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

APPENDIX E

SURVEY DATA CALCULATIONS

SURVEY DATA CALCULATIONS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

Project CTO 140 N0547 - Bldg. 1932 - NASP

Station	+	Height of Instrument	-	Elevation	Point	Horizontal Degree	Satdia Hi	Satdia Lo	Vertical Degree	X	Y	Distance (To Station)	Notes
													Set (0,0) for Station #1 and Y axis pointing to North
1	3.30	36.300		33.000	Benchmark-SE corner	248.0	3.920	2.680	90	-114.97	-46.45	124.00	
			5.050	31.250	MW-8	236.0	5.710	4.400	90	-108.60	-73.25	131.00	
			6.150	30.150	MW-17	161.0	6.930	5.370	90	50.79	-147.50	156.00	
			5.210	31.090	MW-10	194.0	5.890	4.530	90	-32.90	-131.96	136.00	
			6.400	29.900	MW-24D	221.0	7.290	5.510	90	-116.78	-134.34	178.00	
			6.230	30.070	[redacted]	222.0	7.050	5.400	90	-110.41	-122.62	165.00	
			5.020	31.280	MW-20	258.0	5.565	4.480	90	-106.13	-22.56	108.50	
			5.100	31.200	MW-21	249.0	5.930	4.270	90	-154.97	-59.49	166.00	
			4.820	31.480	MW-19	270.5	5.660	3.970	90	-168.99	1.47	169.00	
			4.460	31.840	[redacted]	285.0	5.800	3.130	90	-257.90	69.10	267.00	
			4.700	31.600	MW-4	283.0	6.260	3.140	90	-304.00	70.18	312.00	
			4.390	31.910	MW-18	288.5	5.510	3.270	90	-212.42	71.08	224.00	
			4.810	31.490	MW-3	323.0	5.780	3.890	90	-113.74	150.94	189.00	
			5.350	30.950	MW-2	320.0	6.300	4.390	90	-122.77	146.31	191.00	
			5.050	31.250	MW-16	295.5	5.900	4.210	90	-152.54	72.76	169.00	
			5.060	31.240	MW-5	316.5	5.460	4.660	90	-55.07	58.03	80.00	
			5.105	31.195	MW-15	287.0	5.700	4.515	90	-113.32	34.65	118.50	
			5.550	30.750	[redacted]	270.0	6.880	4.230	90	-265.00	0.00	265.00	
			5.540	30.760	[redacted]	249.0	6.730	4.360	90	-221.26	-84.93	237.00	
			5.660	30.640	MW-11	219.5	6.930	4.400	90	-160.93	-195.22	253.00	
1	3.31	36.305		33.000	Benchmark-SE corner	248.5	3.925	2.670	90	-116.77	-46.00	125.50	
The following stations were set with zero degrees approx parallel to the street as above (see Map), but angle between wells should be used to establish the relative locations.													
2	3.54	36.540		33.000	Benchmark-SE corner	199.0	4.500	2.580	90	-62.51	-181.54	192.00	
			5.140	31.400	MW-14	258.0	5.570	4.710	90	-84.12	-17.88	86.00	
			5.470	31.070	MW-2	278.0	5.930	5.210	90	-71.30	10.02	72.00	
			5.290	31.250	MW-5	182.0	5.680	4.900	90	-2.72	-77.95	78.00	
Following restablishes instrument height based on MW-19													
3	5.89	37.370		31.480	MW-19	143.0	6.215	5.560	90	39.42	-52.31	65.50	
			5.535	31.835	[redacted]	286.5	5.800	5.270	90	-50.82	15.05	53.00	
			6.315	31.055	MW-1	27.5	6.315	5.710	90	27.94	53.66	60.50	
			6.405	30.965	MW-23	234.0	6.775	6.035	90	-59.87	-43.50	74.00	
			6.610	30.760	[redacted]	227.0	7.010	6.210	90	-58.51	-54.56	80.00	
			7.570	29.800	[redacted]	225.0	8.270	6.865	90	-99.35	-99.35	140.50	
4	4.60	37.600		33.000	Benchmark-SE corner	60.0	5.460	3.750	90	148.09	85.50	171.00	
			8.390	29.210	[redacted]	206.0	8.910	7.860	90	-46.03	-94.37	105.00	
			8.330	29.270	Sta 5 Loc	206.5	8.610	8.050	90	-24.99	-50.12	56.00	
			7.530	30.070	[redacted]	87.0	8.300	6.750	90	154.79	8.11	155.00	
			6.830	30.770	[redacted]	43.0	7.145	6.520	90	42.62	45.71	62.50	
			7.790	29.810	[redacted]	334	8.270	7.310	90	-42.08	86.28	96.00	Stadia Hi is derived from Stadia Mi & Lo
Following restablishes instrument height based on MW-7													
5	3.57	34.330		30.760	[redacted]	39.0	4.170	2.990	90	74.26	91.70	118.00	
			5.130	29.200	[redacted]	208	5.370	4.890	90	-22.53	-42.38	48.00	Stadia Hi is derived from Stadia Mi & Lo
			5.500	28.830	MW-13	156	6.225	4.780	90	58.77	-132.01	144.50	

APPENDIX F

SLUG TEST DATA

SLUG TEST DATA SET
SITE / JOB NO.: NASP Building 1932

Insert values into first table; use second table to build AQTESOLV data sets.

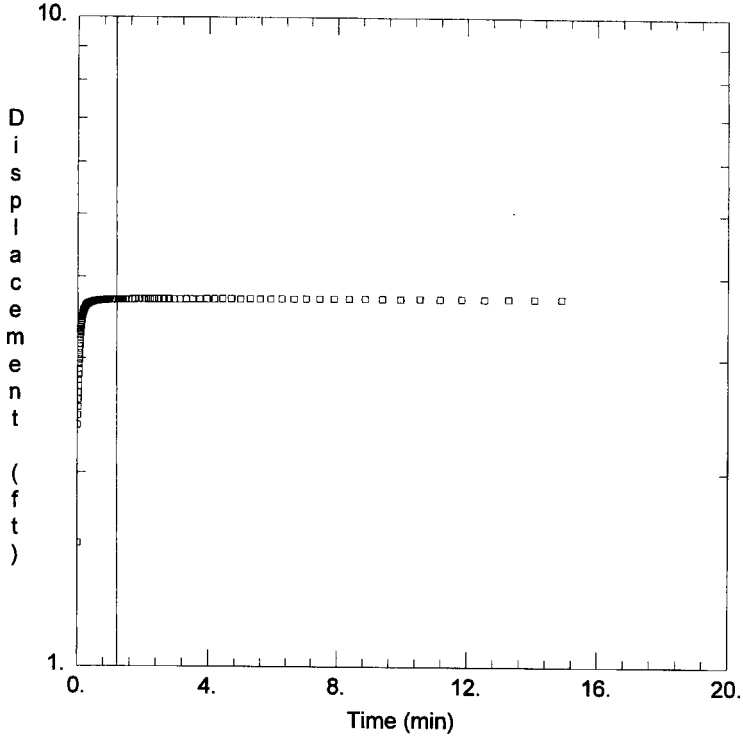
Site	NASP Building 1932									
Well No.	**MW-2**	**MW-3**	**MW-6**	**MW-17**	**MW-24D**	**MW-24D**				
Slug Test Date	5/6/01	5/6/01	5/6/01	5/6/01	5/6/01	5/5/01				
Slug In / Out	Out	Out	Out	Out	Out	In				
Depth to SWL (ft)	11.4	10.38	10.63	11.22	12.2	12.23				
Initial Head Change (ft) (1)	2.163	4.362	4.364	2.964	23.98	26.561				
Well Radius (ft)	0.083	0.083	0.083	0.083	0.083	0.083				
Boring Radius (ft)	0.33	0.33	0.33	0.33	0.33	0.33				
Well Stickup (ft)	0	0	0	0	0	0				
Filter Pack Porosity	0.3	0.3	0.3	0.3	0.3	0.3				
Top Screen Depth (ft)	5	5.42	5.55	5.55	34.1	34.1				
Bott. Screen Depth (ft)	15	15.42	15.55	15.55	39.1	39.1				
Aquifer Bott. Depth (ft)	100	100	100	100	100	100				

(1) Determined from Time vs. Head Change data.

AQTESOLV INPUT
(Units in Feet)

Well No.	**MW-2**	**MW-3**	**MW-6**	**MW-17**	**MW-24D**	**MW-24D**	**0**	**0**	**0**	**0**
Initial Displacement	2.163	4.362	4.364	2.964	23.98	26.561	0	0	0	0
Radius, Well	0.083	0.083	0.083	0.083	0.083	0.083	0	0	0	0
Radius, Boring	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0	0
Saturated Thickness	88.6	89.62	89.37	88.78	87.8	87.77	0	0	0	0
Screen Length (2)	10	10	10	10	5	5	0	0	0	0
Height Water in Well	3.6	5.04	4.92	4.33	26.9	26.87	0	0	0	0
Is H > L ? (3)	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
If NO, enter filter pack porosity (decimal)	0.3	0.3	0.3	0.3						

(2) Screen lenght can not be greater than saturated thickness.
(3) If the height of the water in the well, H. is less than the screen length, L, then the filter pack porosity must be considered.



WELL TEST ANALYSIS

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-2 Slug\MW2slgot.aqt
Date: 07/23/01 Time: 16:28:01

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-2
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 88.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-2)

Initial Displacement: 1.553 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 3.6 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-2 Slug\MW2slgot.aqt
Date: 07/23/01
Time: 16:29:36

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/6/01
Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 88.6 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-2

X Location: 0. ft
Y Location: 0. ft

No. of observations: 107

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.005	2.368	0.2647	3.614	2.085	3.701
0.01	2.45	0.2803	3.623	2.21	3.701
0.015	2.521	0.297	3.629	2.341	3.701
0.02	2.592	0.3147	3.636	2.481	3.701
0.025	2.654	0.3333	3.642	2.63	3.701
0.03	2.719	0.3532	3.646	2.786	3.701
0.035	2.776	0.3742	3.65	2.953	3.699
0.04	2.83	0.3963	3.652	3.13	3.699
0.045	2.887	0.4198	3.657	3.316	3.701
0.05	2.937	0.4447	3.661	3.515	3.701
0.055	2.985	0.4697	3.665	3.725	3.701
0.06	3.031	0.4963	3.669	3.946	3.705
0.065	3.079	0.5247	3.669	4.181	3.705
0.07	3.117	0.5547	3.673	4.43	3.707
0.075	3.152	0.5863	3.673	4.693	3.707
0.08	3.188	0.6213	3.677	4.973	3.703
0.0848	3.221	0.6578	3.68	5.27	3.707
0.09	3.25	0.6963	3.68	5.583	3.705

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.095	3.282	0.738	3.682	5.915	3.705
0.1	3.307	0.7813	3.684	6.266	3.707
0.1058	3.336	0.828	3.686	6.64	3.705
0.112	3.363	0.8763	3.688	7.035	3.707
0.1185	3.389	0.928	3.688	7.453	3.707
0.1255	3.416	0.983	3.69	7.896	3.707
0.1328	3.439	1.041	3.69	8.366	3.709
0.1407	3.462	1.103	3.692	8.865	3.711
0.149	3.483	1.168	3.69	9.391	3.709
0.1578	3.501	1.238	3.692	9.95	3.707
0.167	3.518	1.311	3.692	10.54	3.711
0.177	3.535	1.39	3.692	11.17	3.709
0.1875	3.55	1.473	3.694	11.83	3.71
0.1985	3.562	1.561	3.696	12.53	3.709
0.2102	3.566	1.655	3.696	13.28	3.712
0.2227	3.579	1.753	3.698	14.07	3.712
0.2358	3.596	1.858	3.701	14.91	3.712
0.2498	3.608	1.968	3.701		

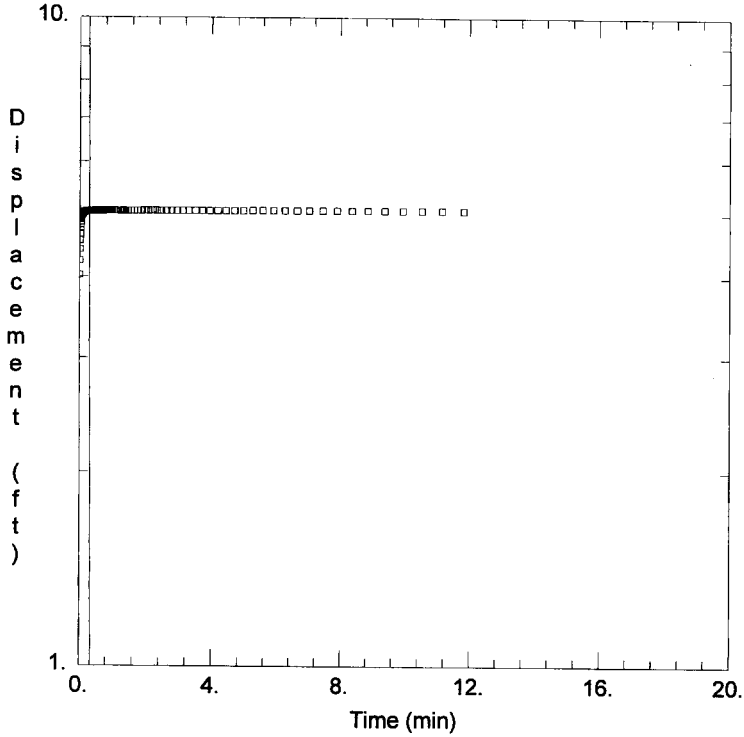
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.06318	cm/sec
y0	4.467E+21	ft



WELL TEST ANALYSIS

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-3 Slug\MW3slgout.aqt
Date: 07/23/01 Time: 16:31:00

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-3
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 89.62 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 0.697 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 5.04 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-3 Slug\MW3slgout.aqt
Date: 07/23/01
Time: 16:31:07

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/6/01
Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 89.62 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-3

X Location: 0. ft
Y Location: 0. ft

No. of observations: 103

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.005	4.024	0.2498	5.038	1.858	5.053
0.01	4.235	0.2647	5.042	1.968	5.055
0.015	4.408	0.2803	5.042	2.085	5.055
0.02	4.548	0.297	5.044	2.21	5.055
0.025	4.655	0.3147	5.044	2.341	5.055
0.03	4.745	0.3333	5.046	2.481	5.053
0.035	4.81	0.3532	5.046	2.63	5.053
0.04	4.856	0.3742	5.048	2.786	5.053
0.045	4.9	0.3963	5.048	2.953	5.053
0.05	4.923	0.4198	5.048	3.13	5.053
0.055	4.946	0.4447	5.048	3.316	5.051
0.06	4.956	0.4697	5.048	3.515	5.053
0.065	4.969	0.4963	5.048	3.725	5.051
0.07	4.981	0.5247	5.042	3.946	5.051
0.075	4.967	0.5547	5.05	4.181	5.053
0.08	4.99	0.5863	5.05	4.43	5.053
0.0848	4.994	0.6213	5.05	4.693	5.053
0.09	4.99	0.6578	5.05	4.973	5.051

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.095	4.998	0.6963	5.05	5.27	5.057
0.1	5.002	0.738	5.052	5.583	5.057
0.1058	5.006	0.7813	5.052	5.915	5.057
0.112	5.008	0.828	5.052	6.266	5.059
0.1185	5.01	0.8763	5.055	6.64	5.059
0.1255	5.015	0.928	5.055	7.035	5.059
0.1328	5.019	0.983	5.052	7.453	5.059
0.1407	5.021	1.041	5.052	7.896	5.057
0.149	5.023	1.103	5.052	8.366	5.057
0.1578	5.027	1.168	5.052	8.865	5.057
0.167	5.027	1.238	5.052	9.391	5.057
0.177	5.029	1.311	5.05	9.95	5.059
0.1875	5.031	1.39	5.052	10.54	5.057
0.1985	5.033	1.473	5.052	11.17	5.057
0.2102	5.036	1.561	5.052	11.83	5.059
0.2227	5.038	1.655	5.052		
0.2358	5.038	1.753	5.052		

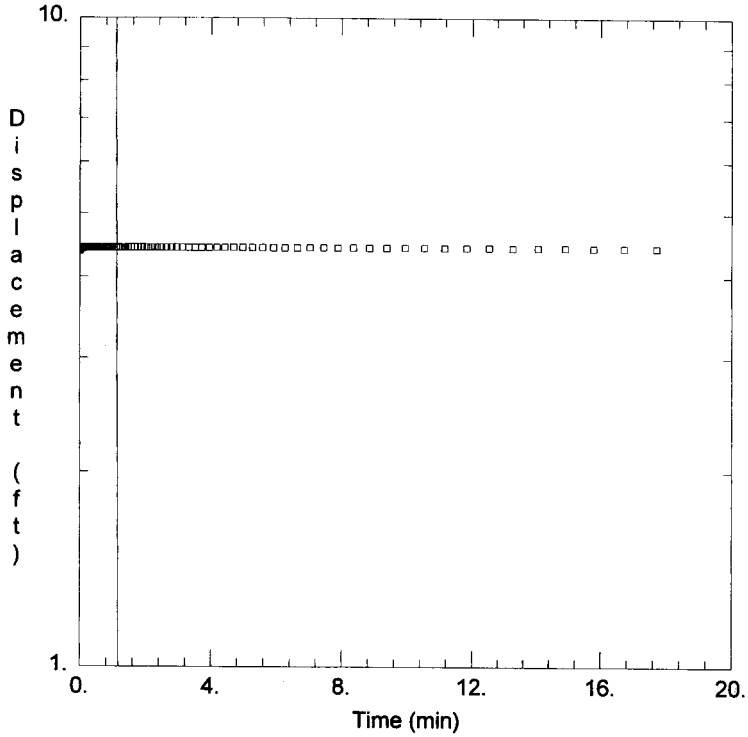
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.07002	cm/sec
y0	8.743E+05	ft



WELL TEST ANALYSIS

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-6 Slug\MW6slugout.aqt
Date: 07/23/01 Time: 16:31:28

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-6
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 89.37 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6)

Initial Displacement: 0.068 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 4.92 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-6 Slug\MW6slugout.aqt
Date: 07/23/01
Time: 16:31:36

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/6/01
Test Well: MW-6

AQUIFER DATA

Saturated Thickness: 89.37 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-6

X Location: 0. ft
Y Location: 0. ft

No. of observations: 110

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0048	4.379	0.2803	4.433	2.341	4.433
0.0098	4.387	0.297	4.431	2.481	4.435
0.015	4.393	0.3145	4.433	2.63	4.433
0.0198	4.399	0.3333	4.433	2.786	4.433
0.025	4.404	0.3532	4.431	2.953	4.433
0.03	4.408	0.374	4.431	3.13	4.433
0.035	4.412	0.3963	4.431	3.316	4.431
0.0398	4.412	0.4198	4.433	3.515	4.431
0.045	4.416	0.4445	4.433	3.724	4.432
0.05	4.416	0.4695	4.431	3.946	4.432
0.0548	4.418	0.4963	4.433	4.181	4.434
0.06	4.42	0.5247	4.431	4.43	4.434
0.0648	4.422	0.5547	4.431	4.693	4.434
0.07	4.422	0.5862	4.431	4.973	4.434
0.075	4.424	0.6213	4.431	5.27	4.434
0.0798	4.424	0.6578	4.431	5.583	4.434
0.0848	4.426	0.6963	4.431	5.915	4.432
0.09	4.426	0.738	4.431	6.266	4.432

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.095	4.428	0.7813	4.431	6.64	4.432
0.1	4.428	0.8278	4.433	7.035	4.434
0.1057	4.428	0.8762	4.433	7.453	4.434
0.1118	4.422	0.9278	4.433	7.896	4.432
0.1185	4.43	0.9828	4.433	8.366	4.434
0.1255	4.422	1.041	4.433	8.864	4.432
0.1327	4.43	1.103	4.433	9.391	4.432
0.1405	4.433	1.168	4.435	9.95	4.436
0.1488	4.433	1.238	4.431	10.54	4.434
0.1578	4.433	1.311	4.431	11.17	4.432
0.167	4.433	1.39	4.431	11.83	4.432
0.1768	4.433	1.473	4.433	12.53	4.434
0.1875	4.433	1.561	4.433	13.28	4.428
0.1985	4.431	1.655	4.435	14.07	4.434
0.21	4.433	1.753	4.435	14.91	4.434
0.2225	4.433	1.858	4.433	15.79	4.432
0.2358	4.433	1.968	4.435	16.73	4.432
0.2498	4.433	2.084	4.435	17.72	4.432
0.2647	4.433	2.21	4.433		

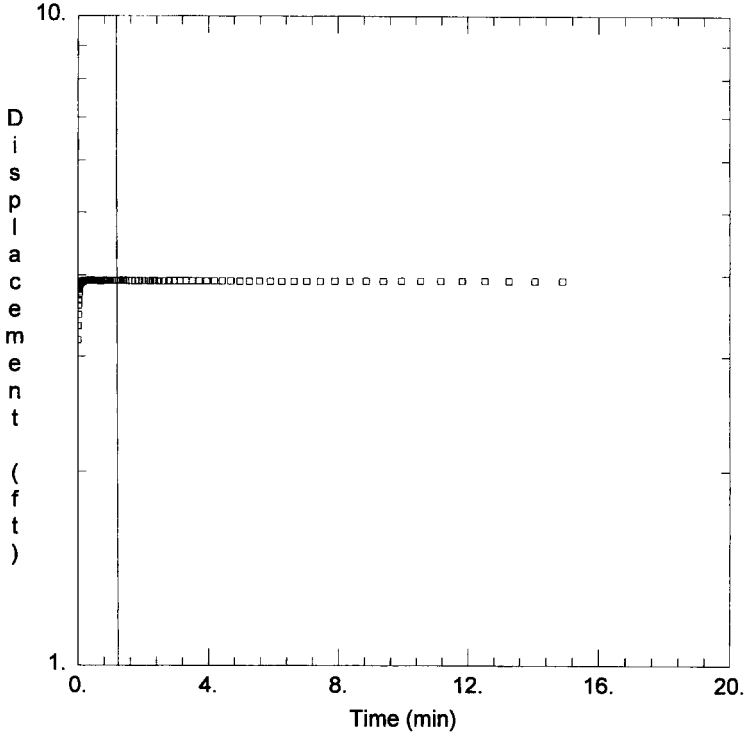
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.06938	cm/sec
y0	5.275E+20	ft



WELL TEST ANALYSIS

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-17 Slug\MW17slugout.aqt
Date: 07/23/01 Time: 16:40:46

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-17
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 88.78 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17)

Initial Displacement: 0.96 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 4.33 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-17 Slug\MW17slugout.aqt
Date: 07/23/01
Time: 16:32:28

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/6/01
Test Well: MW-17

AQUIFER DATA

Saturated Thickness: 88.78 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-17

X Location: 0. ft
Y Location: 0. ft

No. of observations: 107

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.005	3.181	0.2647	3.926	2.085	3.922
0.01	3.344	0.2803	3.926	2.21	3.922
0.015	3.482	0.297	3.926	2.341	3.924
0.02	3.591	0.3147	3.926	2.481	3.92
0.025	3.66	0.3333	3.928	2.63	3.92
0.03	3.725	0.3532	3.928	2.786	3.922
0.035	3.764	0.3742	3.928	2.953	3.922
0.04	3.8	0.3963	3.928	3.13	3.922
0.045	3.823	0.4198	3.928	3.316	3.922
0.05	3.84	0.4447	3.926	3.515	3.922
0.055	3.854	0.4697	3.926	3.725	3.922
0.06	3.865	0.4963	3.926	3.946	3.922
0.065	3.873	0.5247	3.926	4.181	3.922
0.07	3.88	0.5547	3.926	4.43	3.922
0.075	3.886	0.5863	3.926	4.693	3.922
0.08	3.89	0.6213	3.926	4.973	3.92
0.0848	3.894	0.6578	3.926	5.27	3.92
0.09	3.898	0.6963	3.917	5.583	3.922

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.095	3.9	0.738	3.926	5.915	3.92
0.1	3.903	0.7813	3.926	6.266	3.92
0.1058	3.905	0.828	3.928	6.64	3.92
0.112	3.909	0.8763	3.926	7.035	3.92
0.1185	3.911	0.928	3.926	7.453	3.92
0.1255	3.913	0.983	3.926	7.896	3.922
0.1328	3.915	1.041	3.926	8.366	3.922
0.1407	3.907	1.103	3.926	8.865	3.922
0.149	3.919	1.168	3.926	9.391	3.92
0.1578	3.911	1.238	3.926	9.95	3.926
0.167	3.921	1.311	3.926	10.54	3.926
0.177	3.921	1.39	3.928	11.17	3.924
0.1875	3.921	1.473	3.926	11.83	3.924
0.1985	3.921	1.561	3.922	12.53	3.924
0.2102	3.923	1.655	3.922	13.28	3.924
0.2227	3.923	1.753	3.919	14.07	3.924
0.2358	3.923	1.858	3.922	14.91	3.924
0.2498	3.923	1.968	3.922		

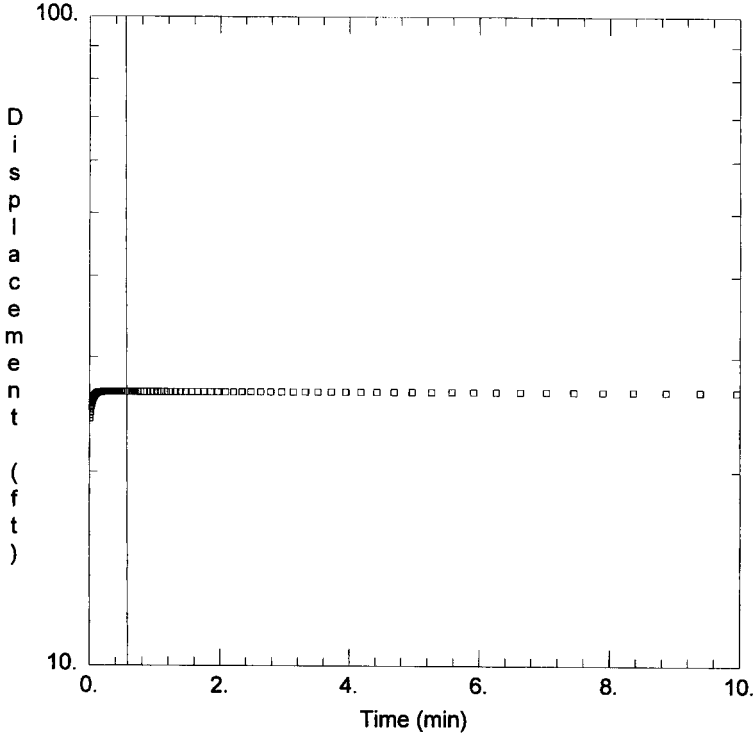
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.05867	cm/sec
y0	1.377E+19	ft



WELL TEST ANALYSIS

Data Set: D:\...\MW-24D Slug Out-Unconfined.aqt
Date: 07/23/01 Time: 16:37:03

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-24D
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 87.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-24D)

Initial Displacement: 2.558 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 26.9 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-24D Slug\MW-24D Slug Out-Uncon
Date: 07/23/01
Time: 16:37:10

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/6/01
Test Well: MW-24D

AQUIFER DATA

Saturated Thickness: 87.8 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-24D

X Location: 0. ft
Y Location: 0. ft

No. of observations: 100

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.005	24.15	0.2358	26.53	1.655	26.54
0.01	24.39	0.2498	26.53	1.753	26.54
0.015	24.65	0.2647	26.54	1.858	26.54
0.02	24.88	0.2803	26.54	1.968	26.54
0.025	25.07	0.297	26.54	2.085	26.54
0.03	25.25	0.3147	26.54	2.21	26.54
0.035	25.4	0.3333	26.54	2.341	26.54
0.04	25.54	0.3532	26.54	2.481	26.54
0.045	25.66	0.3742	26.54	2.63	26.54
0.05	25.76	0.3963	26.54	2.786	26.54
0.055	25.85	0.4198	26.54	2.953	26.54
0.06	25.93	0.4447	26.54	3.13	26.54
0.065	26.	0.4697	26.54	3.316	26.54
0.07	26.07	0.4963	26.55	3.515	26.54
0.075	26.12	0.5247	26.54	3.725	26.54
0.08	26.17	0.5547	26.54	3.946	26.54
0.0848	26.21	0.5863	26.54	4.181	26.54
0.09	26.25	0.6213	26.54	4.43	26.54

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.095	26.29	0.6578	26.54	4.693	26.54
0.1	26.32	0.6963	26.54	4.973	26.54
0.1058	26.35	0.738	26.54	5.27	26.54
0.112	26.37	0.7813	26.54	5.583	26.54
0.1185	26.4	0.828	26.54	5.915	26.54
0.1255	26.42	0.8763	26.54	6.266	26.54
0.1328	26.45	0.928	26.54	6.64	26.54
0.1407	26.46	0.983	26.54	7.035	26.54
0.149	26.48	1.041	26.54	7.453	26.54
0.1578	26.49	1.103	26.54	7.896	26.54
0.167	26.5	1.168	26.54	8.366	26.54
0.177	26.5	1.238	26.54	8.865	26.54
0.1875	26.51	1.311	26.54	9.391	26.54
0.1985	26.52	1.39	26.54	9.95	26.54
0.2102	26.52	1.473	26.54		
0.2227	26.53	1.561	26.54		

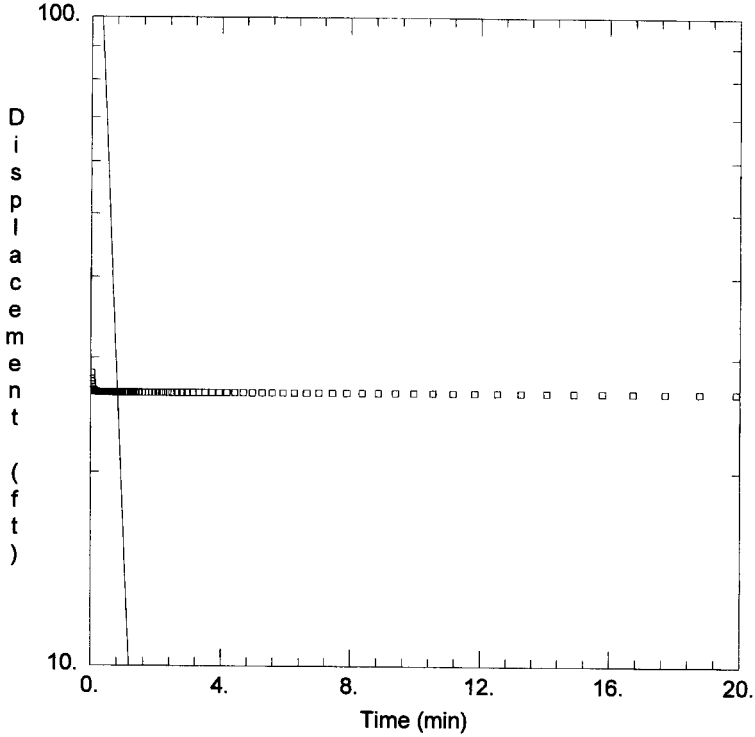
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.3229	cm/sec
y0	8.799E+21	ft



WELL TEST ANALYSIS

Data Set: D:\...\MW-24D Slug In-Confined.aqt
Date: 07/23/01 Time: 16:38:26

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-24D
Test Date: 5/5/01

AQUIFER DATA

Saturated Thickness: 87.77 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-24D)

Initial Displacement: 1.883 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 26.87 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-24D Slug\MW-24D Slug In-Confine
Date: 07/23/01
Time: 16:38:30

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Location: NAS Pensacola
Test Date: 5/5/01
Test Well: MW-24D

AQUIFER DATA

Saturated Thickness: 87.77 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-24D

X Location: 0. ft
Y Location: 0. ft

No. of observations: 107

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.03	28.41	0.3532	26.54	2.786	26.52
0.035	27.84	0.3742	26.54	2.953	26.52
0.04	27.58	0.3963	26.54	3.13	26.52
0.045	27.6	0.4198	26.54	3.316	26.52
0.05	27.56	0.4447	26.54	3.515	26.52
0.055	27.22	0.4697	26.54	3.725	26.52
0.06	26.64	0.4963	26.54	3.946	26.52
0.065	26.75	0.5247	26.54	4.181	26.52
0.07	26.77	0.5547	26.54	4.43	26.52
0.075	26.77	0.5863	26.53	4.693	26.53
0.08	26.79	0.6213	26.53	4.973	26.52
0.0848	26.73	0.6578	26.53	5.27	26.52
0.09	26.73	0.6963	26.53	5.583	26.52
0.095	26.71	0.738	26.53	5.915	26.52
0.1	26.7	0.7813	26.52	6.266	26.52
0.1058	26.68	0.828	26.53	6.64	26.52
0.112	26.67	0.8763	26.53	7.035	26.52
0.1185	26.65	0.928	26.53	7.453	26.52

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.1255	26.64	0.983	26.53	7.896	26.52
0.1328	26.63	1.041	26.53	8.366	26.52
0.1407	26.62	1.103	26.53	8.865	26.52
0.149	26.61	1.168	26.52	9.391	26.52
0.1578	26.6	1.238	26.53	9.95	26.52
0.167	26.59	1.311	26.53	10.54	26.52
0.177	26.58	1.39	26.52	11.17	26.52
0.1875	26.58	1.473	26.52	11.83	26.52
0.1985	26.57	1.561	26.53	12.53	26.52
0.2102	26.56	1.655	26.52	13.28	26.52
0.2227	26.56	1.753	26.52	14.07	26.53
0.2358	26.56	1.858	26.52	14.91	26.52
0.2498	26.55	1.968	26.52	15.79	26.53
0.2647	26.55	2.085	26.52	16.73	26.53
0.2803	26.55	2.21	26.52	17.72	26.53
0.297	26.55	2.341	26.52	18.78	26.53
0.3147	26.55	2.481	26.52	19.89	26.52
0.3333	26.54	2.63	26.52		

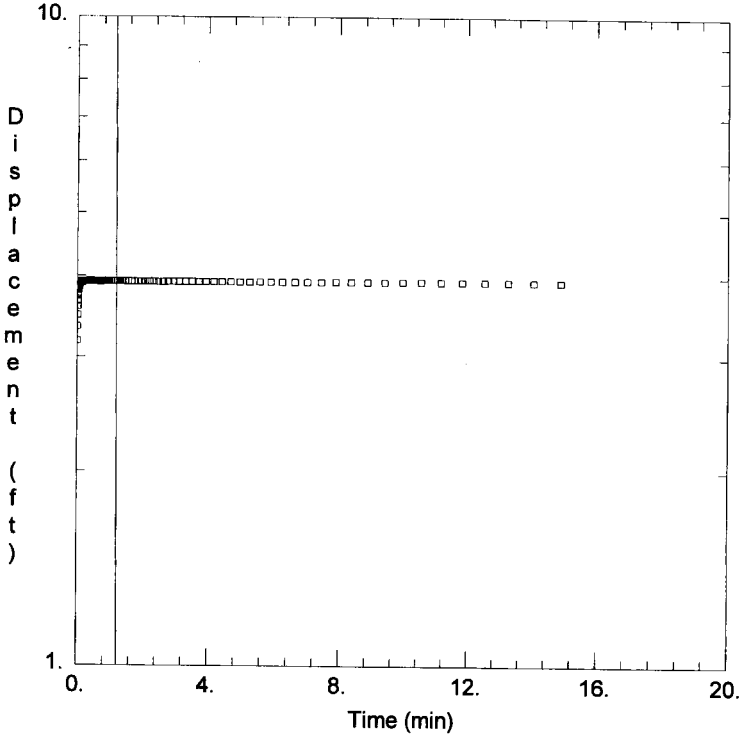
SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.01058	cm/sec
y0	246.7	ft



WELL TEST ANALYSIS

Data Set: D:\GARY\Pensacola-NAS\Bldg 1932\Bldg-1932 Aquifer Tests\MW-17 Slug\MW17slugout.aqt
Date: 07/23/01 Time: 16:38:01

PROJECT INFORMATION

Company: Tetra Tech NUS
Client: Navy SOUTHDIV
Project: N0547
Test Location: NAS Pensacola
Test Well: MW-17
Test Date: 5/6/01

AQUIFER DATA

Saturated Thickness: 88.78 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17)

Initial Displacement: 0.96 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 4.33 ft
Wellbore Radius: 0.33 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

APPENDIX G

ESTIMATED MASS OF CONTAMINANT CALCULATIONS

SOIL CONTAMINANT MASS CALCULATIONS
SHERMAN FIELD, BUILDING 1932, UST 000025, SITE ASSESSMENT REPORT
NAVAL AIR STATION, PENSACOLA, FLORIDA

0-4 ft BGS Area =	Pi times	radius (A) times	radius (B)
12141.82563	3.14159	76.14	50.76
4-8 ft BGS Area =	Pi times	radius (A) times	radius (B)
30354.56408	3.14159	126.9	76.14
8-12 ft BGS Area =	Pi times	radius (A) times	radius (B)
48567.30253	3.14159	152.28	101.52
0-4 ft BGS Volume =	Area times	Depth	
48568	12142	4	
4-8 ft BGS Volume =	Area times	Depth	
121420	30355	4	
8-12 ft BGS Volume =	Area times	Depth	
194268	48567	4	
Total Volume =	364256		

	TRPH
SB-1	6500
SB-3	2700
SB-5	3100
SB-7	4700
SB-11	14000
Mean	6200

Mass =	Volume times	kg times	TRPH times	lb/kg	Mass in lbs
	364256	52.68	6200	2.20462E-06	262288