2006-2007 ANNUAL AS/SVE MONITORING REPORT
HADNOT POINT FUEL FARM/BUILDING 1115 SITES
MARINE CORPS BASE, CAMP LEJEUNE
ONSLOW COUNTY, NORTH CAROLINA

Prepared for:

DEPARTMENT OF THE NAVY
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Naval Facilities Engineering Command, Mid-Atlantic
Marine Corps North Carolina IPT
Environmental Business Line
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Task Order 0061
Shaw Project No. 119909

May 2007

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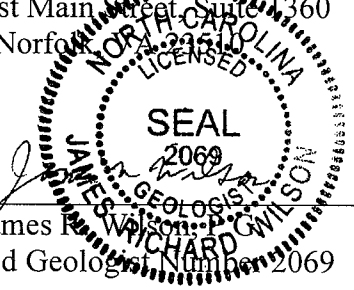
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TITLE PAGE

The facility name, UST owner, UST operator, and UST information is provided below:

UST Location:	Hadnot Point Industrial Area Former Hadnot Point Fuel Farm Along Ash Street Building 1115 Near Holcomb Boulevard and Ash Street Onslow County Camp Lejeune, NC 28562
UST Incident Number:	3671, 10615 and 22788
Facility ID Number:	0-002740
Risk Classification:	Intermediate
Land Use Category:	Industrial/Commercial
UST Owner:	Commanding Officer, MCB I&E/EMD/EQB PSC Box 20004 Onslow County Camp Lejeune, NC 28542 (910) 451-5068
UST Operator:	Commanding Officer, MCB I&E/EMD/EQB PSC Box 20004 Onslow County Camp Lejeune, NC 28542 (910) 451-5068
Primary Responsible Party Contact:	Andrew Smith Environmental Engineer I&E/EMD/EQB PSC Box 20004 Camp Lejeune, NC 28542 (910) 451-5068
Date of Release:	Unknown
Quantity of Release:	Unknown
Source of Release:	UST system along with one AST
Latitude and Longitude:	34° 40' 18.891" N 77° 19' 56.7026" W

Tank Number	Installation Date	Tank Capacity	Tank Dimensions	Last Contents	Previous Contents
HPFF-1	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-2	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-3	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-4	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-5	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-6	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-7	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-8	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-9	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-10	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-11	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-12	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-13	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-14	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-15	Around 1941	600000 (AST)	Unknown	Petroleum Products	Petroleum Products
1100-1	1942	1000	Unknown	Gasoline	Petroleum Products
1100-2	1942	3000	Unknown	Gasoline	Petroleum Products
1100-3	1942	3000	Unknown	Gasoline	Petroleum Products
1100-4	1942	5000	Unknown	Unknown	Unknown
1100-5	1942	5000	Unknown	Unknown	Unknown
1100-6	1942	5000	Unknown	Unknown	Unknown
1100-7	1942	5000	Unknown	Unknown	Unknown

1.0 INTRODUCTION

This annual monitoring report presents the monitoring results collected from September 2005 through May 2007, describes current groundwater contamination conditions, and provides recommendations for the Air Sparge (AS)/Soil Vapor Extraction (SVE) treatment system located at Building 1115 and the former Hadnot Point Fuel Farm (HPFF) site. This report is submitted per the Corrective Action Plan (CAP) dated April 4, 1998 to remediate a release of petroleum and is in compliance with *Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II, Petroleum Underground Storage Tanks*, published by the State of North Carolina's Department of Environment and Natural Resources (NCDENR) Division of Water Quality dated April 2001.

This report provides a brief account of the environmental history of the site, summarizes the original CAP, describes the installation and operation of the recommended remedial alternative, and provides a brief discussion of the Revised CAP that was completed in 2003. This report also provides a discussion of monitoring results of the AS/SVE system's operation and the current status of groundwater quality compared to baseline data, and presents conclusions about remedial progress to date and recommendations for further system operation.

1.1 CAMP LEJEUNE MARINE BASE LOCATION AND DESCRIPTION

Located in Onslow County, North Carolina, Marine Corps Base (MCB) Camp Lejeune is a training base for the United States Marine Corps. The base covers approximately 236 square miles (153,000 acres) and includes 14 miles of coastline. MCB Camp Lejeune is bounded on the southeast by the Atlantic Ocean and on the northeast by State Route 24. Wooded areas are located north, east, and west of the site. The town of Jacksonville, North Carolina, is located north of the base (*Figure 1.1).*

1.2 SITE GEOLOGY/HYDROGEOLOGY

The project area is dominated by relatively flat topography. The nearest mapped body of surface water is Beaverdam Creek, located approximately 1,400 feet to the west of the Hadnot Point Fuel Farm/Building 1115 area. Surface water runoff from the site is diverted into a network of storm drains and shallow drainage ditches located across the site. Storm water collected by this system of drains and ditches ultimately discharges to the New River.

Sediment and stratigraphy at the site indicate a marine or near shore environment of deposition. Interfingering layers of very fine to fine grained sand, silty sand, and clayey sand occurs to a depth of approximately 12 feet below land surface (bls). Thin discontinuous beds of very fine to medium-grained sand, silty sand, sandy clay, and clay and peat with limited lateral continuity have been identified from 12 to 25 feet bls. Medium to fine-grained sandy clay, sand with minor silts, and clay with minor silts are typically encountered from below 25 feet bls to the limestone interface at an approximate depth of 40 feet bls. No continuous, confining layer has been identified during contamination assessment work at the site. However, numerous discontinuous thin beds of clay, sandy clay, and silty sand have been identified in the subsurface and may act as localized, small-scale confining units.

The groundwater aquifer is classified as GA groundwaters according to the North Carolina Administrative Code (NCAC) Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. A Potential Receptor survey completed by CATLIN in 1998 did not identify any active potable water supply wells within 1,500 feet of the site, or the potential to impact surface water bodies near the site ("Leaking Underground Storage Tank Corrective Action Plan" dated 1998). Depth to groundwater ranges from 4 to 12 feet bls in shallow Type II monitoring wells. In general, the direction of groundwater flow at the site is to the south-southwest for the shallow groundwater and a westward flow for the intermediate and deep groundwater.

1.3 HADNOT POINT FUEL FARM BUILDING 1115 SITE DESCRIPTION

The site is located in the Hadnot Point "mainside" area of MCB Camp Lejeune, North Carolina *(Figure 1.2)*. The project area, the Hadnot Point Fuel Farm/Building 1115, is generally bound by Holcomb Boulevard to the north, Michael Road to the south, Birch Street to the west, and the Vehicle Ready Fuel Storage facility and Temporary Fuel Farm (off Michael Road) to the east.

The project area consists of two primary source areas: the HPFF (Southeast Compound) and the former underground storage tanks (USTs) associated with Building 1115 (Northwest Compound). Free-phased product has been observed and dissolved-phase contamination appears to have migrated from the source areas and commingled to form a continuous plume of groundwater contamination.

1.3.1 Hadnot Point Fuel Farm Area

The HPFF was constructed in about 1941 and consisted of 15 fuel storage tanks including: one 600,000-gallon aboveground storage tank, six 12,000-gallon USTs, and eight 15,000-gallon USTs. The tanks contained diesel fuel, gasoline, unleaded gasoline, and kerosene. There have been numerous recorded losses of product at the site including diesel and unleaded gasoline. Most of the losses likely occurred because of leaks in transfer lines or transfer line valves. Leaks in the fuel lines and tanks were documented as early as 1979. Closure of the one AST and 14 USTs, which consisted of excavation and removal, was completed in March 1993.

1.3.2 Building 1115 Area

Building 1115 was constructed as a fleet service and refueling area. Seven USTs were located west of the building. Three of the USTs contained gasoline and the other four contained either diesel or gasoline. There have been no reports of known releases from the tanks or distribution system associated with Building 1115. Closure of the seven USTs, which consisted of excavation and removal, was completed in March 1993. Free-phase product was observed in the tank excavation during the UST closure activities.

2.0 CONTAMINATION INVESTIGATION HISTORY

2.1 HADNOT POINT FUEL FARM AREA

The HPFF Area has been the focus of numerous soil and groundwater investigations. A Verification Step Study for the Hadnot Point Industrial Area (HPIA) was completed in 1985, and a Characterization Step Report for the HPIA was completed during 1988. These investigations identified the presence of dissolved fuel constituents and/or free product associated with the shallow groundwater.

A Contaminated Groundwater Study was completed in December 1988 to investigate the site hydrogeology and delineate the contaminated groundwater plume. The study identified the presence of free product and dissolved contaminants of concern (COCs) that included: benzene, toluene, ethylbenzene and xylenes (BTEX); methyl tertiary butyl ether (MTBE); trichloroethene (TCE); and tetrachloroethane (PCA).

In 1991, a free-product recovery system consisting of five free-product recovery wells was installed at the HPFF. The system was operated through 1997 when it was discontinued in favor of Aggressive Fluid/Vapor Recovery (AFVR) activities. An estimated 27,000 gallons of free product were recovered by the system. In September 1999, three of the recovery wells (16R, RW4, and RW5) were brought back on line.

A Comprehensive Site Assessment (CSA) was completed in June 1997. Results of this investigation identified soil contamination, free-phase product contamination, and dissolved-phase groundwater contamination at the HPFF. However, the CSA did not delineate the extent of the soil contaminant plume, the downgradient extent of the free product, or the downgradient and vertical extent of the dissolved contaminant plume.

2.2 BUILDING 1115 AREA

A limited site assessment consisting of 10 monitoring wells was completed in October 1993. The findings of the assessment revealed that soil contamination, free-phase product contamination, and dissolved-phase groundwater contamination existed at the site. Additional contamination assessment work completed from 1993 through 1995 required the installation of monitoring wells to depths ranging from 10 feet deep (shallow), 50 feet deep (intermediate), and 100 feet deep (deep aquifer). Soil and groundwater analytical results provided additional information (but did not completely

delineate) on the extent of the soil contamination, and the existence of free-phase product, as well as the horizontal and vertical extent of dissolved contamination. Subsequent contamination assessment investigations completed in 1997 further defined the extent of contamination at the site. This information was used to develop the initial CAP that was submitted and subsequently approved by the NCDENR in April 1998.

2.3 CORRECTIVE ACTION PLAN

A potential receptor survey was performed during preparation of the CAP. No active water supply wells were identified within 1,500 feet of the site. The nearest active supply well at the base, HP-642, is located upgradient of the groundwater flow approximately 2,600 feet east-southeast of the project site. The nearest mapped body of surface water is Beaverdam Creek, located approximately 1,400 feet to the west of the site. A Natural Attenuation Fate and Transport Study determined contaminants at the site would not adversely affect the surface waters of the creek.

The remedial goals of the original CAP were as follows:

- Contain the free-product plumes to prevent further migration and remove accumulations of free product to the extent practicable.
- Reduce levels of unsaturated zone soil contamination in selected areas to less than the Action Levels as specified by the NCDENR.
- Prevent further migration of contaminated groundwater in the core or "hot spot" of the upper portion of the plume (less than 50 feet deep) through active remediation. The goal is to contain the "hot spots" and reduce their impact on the quality of the surrounding groundwater, as well as reduce contaminant concentrations to a level that natural degradation and attenuation can complete the remediation process.
- Reduce groundwater contamination in the "hot spots" of the lower portion of the dissolved plume (below 50 feet deep).
- Demonstrate that the natural processes of degradation and attenuation of contaminants is occurring in the fringe areas of both the upper and lower dissolved contaminant plumes.

Table 2.1 provides Site Rehabilitation Goals presented in the CAP. Contaminants identified in the CAP above State Action Levels and NCAC T15A:02L Groundwater Quality Standards at the site include:

- Gasoline-range Organic Total Petroleum Hydrocarbons (TPH-GRO) and Diesel-range Organic Total Petroleum Hydrocarbons (TPH-DRO)
- BTEX
- Naphthalene
- Tetrachloroethene (PCE)
- 1,2-Dichloroethene (DCE)
- Trichloroethene (TCE)
- 1,2-Dichloropropane
- trans-1,2-Dichloroethene

Based on the remedial technology screening process completed during development of the CAP, the most cost-effective remediation strategy for the HPFF/Building 1115 site included the following:

- AFVR for removal of free product
- Installation of free product recovery trenches along the leading edge of the free-product plumes to augment the AFVR (The trenches at the NW compound were not installed because free-phase product was not observed during system installation). The trenches at the SE compound were replaced with a dedicated free product recovery system comprised of existing and some new recovery wells.
- Soil vapor extraction for reduction of unsaturated soil remediation
- Air sparging for the containment and reduction of "shallow" dissolved hydrocarbons coupled with vapor collection and discharge to the atmosphere of petroleum hydrocarbon vapors
- Biosparging for reduction of "deep" dissolved hydrocarbons
- Natural attenuation of low concentrations of dissolved-phase petroleum constituents in the "shallow" and "deep" portions of the aquifer

2.4 GEOPHYSICAL INVESTIGATION

A geophysical investigation was initiated in December 2001 and completed in May 2002 to better understand the site hydrogeologic characteristics that might be influencing both free product and high dissolved contaminant concentrations observed in the deep aquifer

(greater than 70 feet below the groundwater surface) at the Hadnot Point Fuel Farm. The working hypothesis developed to explain these conditions included:

- Dissolution of limestone
- Formation of voids and channels that "trap" fuel and serve as protected environments to weathering
- Depth of fuel observed at the site enhanced by drought conditions and aggressive pumping from "deep" water supply wells at the base
- Heavy rain events (i.e., hurricanes) result in flooding of voids
- Re-introduction of contaminants into the aquifer

It should be noted that the Air Injection and Bio-Sparge component of the remedial system was shut down November 26, 2001 to avoid interference during geophysical data collection activities. The system was restarted on January 30, 2003. The 2003 Annual monitoring report discussed the startup of the Air Sparge system. Geophysical investigation methods employed at the site included:

- Borehole methods (natural gamma/caliper, optical televiewer, full waveform sonics, EM induction)
- Vertical Seismic Profile (VSP)
- Multiazimuth-multioffset
- DC Resistivity (DCRES)
- Surface Reflection Seismic Profiling
- Drilling log data
- SCAPS Direct Push Method (Laser Induced Fluorescence [LIF], Cone Penetrometer Test [CPT], video probe)

Results of the geophysical investigation are presented in the report titled "*Geophysical Investigation at the Former Fuel Farm Facility and Surrounding Areas, Hadnot Point, MCB Camp Lejeune, North Carolina",* dated May 2002 as completed by Geophex, Ltd, located in Raleigh, North Carolina. Conclusions developed from the geophysical investigation indicate:

- The subsurface can be divided into two units; an upper unit of unconsolidated, inter-fingering peat, sands, silts, and clays: a lower unit comprising of all semi-consolidated and consolidated sediments below the top of the Castle Hayne.

- No discernable, laterally continuous layers occur within the upper unit of sediments. However, the resistivity profiles delineate zones of decreased electrical resistivity that are interpreted to indicate increased hydrologic conductivity. These zones are predominantly logged as well sorted fine sands in drill logs.
- The top of the Castle Hayne Formation is clearly discernable from the seismic reflection data. The interpreted Castle Hayne reflection horizon displays erosional undulations, and offsets due to near vertical faulting or fracturing. Fault/fracture zones are interpreted to represent potential pathways for both horizontal and vertical migration of groundwater contaminants.
- Vertical seismic profiles indicate that the largest amplitude reflections at Hadnot Point correlate to limestones, but changes from silty sand to well sorted sand also produce observable reflections.
- Multichannel Analysis of Surface Waves (MASW) data illustrate the occurrence of a collapse feature in the western corner of the site, near Holcomb Boulevard.
- The potential for contaminant migration to depth exists in two main locations: 1) where zones of high hydrologic conductivity coincide with zones of vertical faults/fractures in the Castle Hayne, near the intersection of East Road and Ash Street; and 2) in the northwest corner of the site where a subsurface void or collapse was drilled and confirmed by MASW data. This feature is also overlain by conductive sediments.
- The permeable pathway identified in the resistivity data appears to be bound to the east and west (and possibly the south), but continues to the northwest. The southern extent coincides with the most fractured area of the Castle Hayne.

2.5 ADDITIONAL SOIL SAMPLING AND ANALYSIS

As requested during the February 28, 2002 Partnering Meeting an additional soil sampling and analysis investigation was completed at the former UST basin area at the former Hadnot Point Fuel Farm UST site during the week of June 17, 2002. Soil samples were collected using a hand auger from 0 to 14 feet bls. A sample was collected at 2 feet depth intervals. The soil sample was placed in a plastic bag, allowed to equilibrate for 15 minutes, then screened using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID). The sample with the highest FID reading was then tested on-site for total petroleum hydrocarbons (TPH) using an Ensys™ Petro Soil Test by EPA Method 4030. Additionally, 17 samples were sent to Accutest Laboratory located in Orlando, Florida for analysis using MADEP-EPH, MADEP-VPH, and total petroleum hydrocarbons. Laboratory results correlated well with field data.

Field and laboratory analytical results suggest the presence of high levels of soil contamination starting at approximately six feet bls. This contamination appears to increase with depth. Results of the additional soil investigation were submitted in a letter report from the United States Marine Corps to the NCDENR.

2.6 REVISED CORRECTIVE ACTION PLAN (CAP)

CATLIN Engineers and Scientists submitted a CAP Addendum to the NCDENR titled "*Revised Corrective Action Plan for Hadnot Point Fuel Farm*" and dated June 13, 2003. The addendum was prepared following additional soil assessment activities, groundwater investigation work, and completion of a long term groundwater pumping test performed by CATLIN. Recommendations of the Revised CAP included continued operation of the existing AS/SVE systems, continued AFVR events, installation of a Bio-Pulse Sparging system, and installation of a groundwater recovery well.

The objective of the Revised CAP was to propose revisions to the existing remediation systems that will remove free product from the subsurface to the extent practical, reduce contaminated soils to below State Action Levels and reduce groundwater contamination to North Carolina 2L Groundwater Quality Standards (GWQS).

Based on the remedial technology screening process completed during development of the Revised CAP, the most cost-effective remediation strategy for the HPFF/Building 1115 site included the following:

- Continued operation of the existing air sparge/biosparge/vapor extraction systems at the Northwest and Southeast Compounds;
- Installation of a bio-pulse sparge system consisting of 25 strategically located vertical sparge wells installed to a depth of 150 feet bls;
- Initiating groundwater recovery and treatment by pumping groundwater recovery well HPFF-75 at a rate of 30 gpm to achieve hydraulic containment of the contaminant plume;
- Rehabilitation of the existing groundwater treatment system located at the Southeast Compound equipment area to treat the recovered groundwater; and
- Due to the apparent effectiveness of AFVR at the site, continue AFVR events to reduce the amount of free phase product at the site.

2.7 HPFF BIO-PULSE AIR SPARGE SYSTEM INSTALLATION AND BUILDING VAPOR PROTECTION

Shaw Environmental, Inc. submitted a HPFF Bio-Pulse Air Sparge System Installation and Building Vapor Protection Implementation Report to the NCDENR dated October 2006.

A total of 25 bio-pulse air sparge wells, BP-1 through BP-24 (SP-100 was installed by Catlin Engineers during the pilot study) were installed by Shaw to a total depth of 150 feet below ground surface (ft-bgs). Initially, two wells (BP-10 and BP-14) were installed by Shaw in October 2005 to evaluate operational characteristics and effectiveness of the bio-pulse wells. An additional four bio-pulse wells (BP-6, BP-9, BP-13, and BP-24) were installed in April 2006. The remaining 18 wells were installed in July and August 2006. The locations of the bio-pulse wells are illustrated on Figure 2.1.

As part of the bio-pulse system, active soil depressurization systems (ASD) were installed to provide vapor protection in Buildings 1108, 1200, 1201, 1202, and 1301 and baseline air monitoring of the interiors of the buildings was performed in August 2006. On September 27, 2006 Shaw started bio-pulse cycling of the wells with a 24 hour bio-pulse event for each of the 25 wells in conjunction with routine air monitoring of the interiors and exteriors of the five buildings.

On November 9, 2006 above normal FID readings were recorded at Building 1101 and Shaw notified MCB Camp Lejeune EMD and Navy as well as NCDENR. Shaw continued to take daily air monitoring readings in Building 1101 and sealed the floor cracks to limit subsurface air infiltration.

On November 17, 2006 Shaw completed the first bio-pulse cycle of all of the wells. On December 5, Shaw started the second round of bio-pulse cycling of the wells but shut down bio-pulse operations as well as all other air sparging operations in the HPFF area when high FID and LEL readings were detected within Building 1101 on December 7, 2006. Shaw installed a vent system in Building 1101 at the request of MCD Camp Lejeune EMD with completion of seven vent systems in Building 1101 on January 25, 2007. FID readings throughout Building 1101 and all other monitored HPFF buildings were within the "safe" range as well as the LEL readings after installation of the new system.

CATLIN prepared an *Operational Addendum to Corrective Action Plan for Hadnot Point Fuel Farm*, dated March 2007 which was an evaluation of the first bio-pulse cycling event performed by Shaw in the last quarter of 2006. The report recommended reducing the next round of bio-pulse sparging in each well from 24 hours to an estimated termination time for the air pulses in each bio-pulse well. Shaw is now utilizing a continuous flow meter with recorder to develop an air flow versus time graph for each individual sparge well. The new data will be used to evaluate each well for the maximum effectiveness. Specific recommendations will be made after each round of sparging events.

Shaw implemented the second round of bio-pulse cycling of the wells in the HPFF bio-pulse air sparge system on April 17, 2007. The second bio-pulse cycling of the 25 bio-pulse wells ranged from 2 hours to a 24 hour bio-pulse event for each well. As of May 31, 2007, no FID readings have been detected within Building 1101 during this second round of bio-pulse cycling. Shaw only detected FID readings from the sample ports at Building 1101 with readings ranging from 10 to 5,000 from bio-pulse sparging of nearby wells. Only 15 of the 25 bio-pulse wells have been air sparged for this second round of bio-pulse cycling of the wells as of May 31, 2007.

3.0 SYSTEM OPERATION AND RESULTS

3.1 BUILDING 1115 AREA (NORTHWEST COMPOUND)

OHM (Predecessor to Shaw) installed a network of five, 50-feet deep AS wells to inject air into the subsurface groundwater around Building 1115. To recover volatile organic hydrocarbons (VOHs) from the unsaturated zone, an SVE collection point consisting of four 20-foot sections of horizontal well screen placed in a cross pattern was installed at each AS well and at four additional locations. Twelve additional 80-feet deep biosparging wells and four 100-feet-deep biosparging wells were also installed (*Figure 3.1)*. Operational data collection from the AS/SVE system began on February 11, 1999 and has continued at regular intervals to the present.

This report discusses the system's operation and monitoring results collected from September 2005 through May 2007. During the time period from September 2005 through May 2007 the system was in operation approximately 80% of the 636 day time frame. The significant downtime was caused predominately by excessive groundwater recovery by the SVE system. In addition, minor downtime periods ranging from one day to a few days duration occurred as a result of minor equipment repairs, and routine maintenance. The remedial system was in operation a total of 507 days during September 2005 through May 2007.

Remedial system monitoring was conducted at least weekly during this operational period. During site inspections, a checklist was used to record operational measurements and conditions such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve positions. This information was used to identify areas requiring maintenance (such as filter replacement) and to fine-tune the system's operation.

The AS/SVE system was inspected on a weekly basis. Each individual well vault was examined. The system's components were checked and indicators of operational performance (such as vacuum, air velocity, and temperature) were recorded. These inspections help to identify equipment maintenance needs. Additional monitoring of the system included the measurement of organic vapor concentrations in the system's effluent.

Hydrocarbon recovery from the system is calculated from operational parameters such as organic vapor concentrations, exhaust stack pressure, velocity, and temperature. These parameters were used to compute the cumulative mass of hydrocarbons recovered. Since system startup, a total of 17,169 pounds of hydrocarbons has been recovered from the Building 1115 Area (Northwest Compound) (*Table 3.1*). During this 21 month monitoring period, a total of 1,665 pounds of hydrocarbons were recovered with an average of 1,025 pounds of hydrocarbons over a 12 month period. Hydrocarbon recovery rates ranged from 10.6 pounds per day (lbs/day) to less than 1.0 lb/day when the system was in operation. The average recovery rate was 3.3 lbs/day. This is an increase in hydrocarbon recovery from the previous year. In 2005, a total of 765 lbs of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 5.9 lbs/day to less than 1.0 lbs/day with an average recovery rate of 3.0 lbs/day.

A descending trend in recovery rates was observed from start-up to 2004. However, an increasing trend in recovery rates from 2004 to the present can be observed in the data. During 1999, a total of 10,300 lbs of hydrocarbons was recovered. The recovery rate decreased to 3,540 lbs recovered in 2000, 1,900 lbs recovered in 2001, 900 lbs recovered in 2002, 533 lbs recovered in 2003, 537 lbs recovered in 2004, and 765 lbs recovered in 2005. During the operating time period in 2006 vapor recovery increased to 1,025 lbs recovered comparing the same 12 month period. During the operating time period from January 2007 through May 2007 2006 vapor recovery was 300 lbs recovered. The gradual increase over the past three years may be due to the gradual lowering of the water table due to lack of rain increasing the unsaturated zone from which to extract vapors. This represents a decrease of 90% from initial system vapor recovery rates in 1999 to the current 2006 recovery rates. This trend is typical of the operation of SVE systems. As adsorbed-phase petroleum compounds are removed from the unsaturated zone, recovered hydrocarbon vapor concentrations will decrease.

There were no major changes made to the system's configuration or equipment during this operating time period. However, the 25 new bio-pulse air sparge wells, BP-1 through BP-24 and SP-100 were installed to a total depth of 150 feet below ground surface (ft-bgs) from October 2005 through August 2006. These new bio-pulse wells may have increased the vapor recovery during October and November 2006. Future vapor recovery due to these bio-pulse cycle events will be monitored closely in 2007.

3.2 HPFF FUEL FARM AREA (SOUTHEAST COMPOUND)

OHM (Predecessor to Shaw) installed a network of thirty, 50-foot deep AS wells to inject air into the subsurface groundwater. To recover VOCs from the unsaturated zone, an SVE collection point consisting of four 20-foot sections of horizontal well screen placed in a cross pattern were installed at each AS well and at six additional locations. Ten additional 85-foot deep biosparging wells were also installed. For operational purposes, the southeast compound's system has been subdivided into a northern Field #1 (Motor Pool) and a southern Field #2 (Fuel Farm) (*Figure 3.2)*. In April 2005 an additional nine 50-foot deep AS wells were installed in accordance with recommendations in the Revised Corrective Action Plan. The locations of the new AS wells (shown in pink) are presented in *Figure 3.2*.

The AS/SVE system was upgraded to include the nine new remediation wells installed during 2004. The groundwater treatment system consisting of an air stripper, oil/water separator, surge tank, bag filters and four 55-gallon liquid phase granular activated carbon canisters was upgraded to treat groundwater from the recovery well (HPFF-75) recommended in the Revised CAP. The upgrade consisted of replacing all the electrical components including the control panel, level controls, and wiring; replacing the transfer pumps from the oil/water separator, the surge tank and the air stripper sump; piping; two bag filter housings; and two 1,000 pound carbon canisters. The groundwater recovery and treatment system was brought on line in September 2005.

Operational data collection from both the Field #1 and Field #2 AS/SVE systems began on April 4, 1999 and has continued at regular intervals to the present. This report discusses the system's operation and results collected from September 2005 through May 2007.

During the time period from September 2005 through May 2007 no significant downtime of the SVE system (exceeding several days) occurred. Minor downtime periods ranging from one day to a few days duration occurred as a result of excessive groundwater entrainment, minor equipment repairs and routine maintenance. The remedial system was in operation a total of 534 days of the 636 day time frame for an operational efficiency of 84 percent.

Remedial system monitoring was conducted at least weekly during this operational period. During site inspections, a checklist was used to record operational measurements and conditions such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve positions. This information was used to identify areas requiring maintenance (such as filter replacement, hour meter replacement) and to fine-tune the system's operation.

The AS/SVE system was also inspected on a weekly basis. Each individual well vault was examined. The system components were checked and indicators of operational performance (such as vacuum, air velocity, and temperature) were recorded. These inspections help to identify equipment maintenance needs. Additional monitoring of the system included the measurement of organic vapor concentrations in the system's effluent.

Hydrocarbon recovery from the system was calculated from operational parameters such as organic concentrations, exhaust stack pressure, velocity and temperature. These parameters were used to compute the cumulative mass of hydrocarbons recovered. Since startup, the HPFF Southeast Compound remedial system has recovered approximately 1,275,905 pounds of hydrocarbons.

3.2.1 Field #1 Motor Pool Area

Since system startup, the Field #1 (Motor Pool) remedial system has recovered approximately 196,098 pounds of hydrocarbons. In 2004, a total of 4,500 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 34 lbs/day to 6 lbs/day. In 2005, a total of 3,450 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 22 lbs/day to 5 lbs/day. In 2006, a total of 5,202 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 90 lbs/day to 7 lbs/day. In the first five months of 2007, a total of 1,758 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 50 lbs/day to 13 lbs/day.

A descending trend in recovery rates from start-up to the present can be observed in the data. During 1999, a total of 92,500 lbs of hydrocarbons was recovered. The recovery rate decreased to 62,000 lbs recovered in 2000, 12,700 lbs recovered in 2001, 7,200 lbs recovered in 2002, 2,700 lbs/day recovered in 2003. In 2004 the vapor recovery rate increased to 4,500 lbs and may have been a result of a biopulse pilot test, completed by CATLIN, that resulted in mobilization of free product (up to 14 feet of free product was observed in monitoring well HPFF-72) in the area. During 2005 the vapor recovery rate

decreased to 3,450 lbs. During 2006 the vapor recovery rate increased to 6,936 lbs over 16 months. This increase may be due to the first bio-pulse air sparging cycle for the new 25 bio-pulse wells in October and November 2006. This represents a decrease of 95% from initial system vapor recovery rates in 1999 to the current recovery rates in 2006. A descending trend is typical of the operation of SVE systems. As adsorbed-phase petroleum compounds are removed from the unsaturated zone, recovered hydrocarbon vapor concentrations will decrease.

3.2.2 Field #2 Fuel Farm

Since system startup, the Field #2 (Fuel Farm) remedial system has recovered approximately 774,315 pounds of hydrocarbons. In 2004, a total of 24,500 pounds of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 114 lbs/day to 12 lbs/day. In 2005, a total of 41,700 pounds of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 400 lbs/day to 15 lbs/day. During the 2006 operating time period, a total of 36,700 lbs of hydrocarbons were recovered. Hydrocarbon recovery rates ranged from 428 lbs/day to 16 lbs/day when the system was operating. In the first five months of 2007, a total of 5,713 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 50 lbs/day to 13 lbs/day. Hydrocarbon recovery appears to be slightly decreasing during the past two years.

From system startup to 2003 a descending trend in recovery rates had been observed in the data. During 1999, a total of 117,000 pounds of hydrocarbons was recovered. The recovery rate increased to 374,500 pounds recovered in 2000, decreased substantially to 75,400 pounds recovered in 2001, continued the decreasing trend to 47,700 lbs recovered in 2002, 13,000 lbs recovered in 2003, 24,500 lbs recovered in 2004, and 41,700 lbs recovered in 2005. The increase during 2004 that continued through 2005 probably resulted from a combination of the SVE/AS system expansion and free product mobilization due to the bio-pulse pilot test (as evidenced by up to 14 feet of free product in monitoring well HPFF-72) and now the new bio-pulse event in 2006 has reversed this trend (as evidenced by reduction down to less than 2 feet of free product in monitoring well HPFF-72 by the end of 2006). The recovery rate in 2006 has decreased approximately 90% from system vapor recovery rates observed during 2000.

3.3 AGGRESSIVE FLUID/VAPOR RECOVERY (AFVR)

In addition to routinely monitoring the AS/SVE system's operation, select monitoring wells that have displayed the presence of free-phase product have been monitored on a weekly basis for the presence of product. If free-phase product is observed in a well greater than 0.6 feet in thickness, an AFVR event is completed to remove the product from the well by vacuum lift using a vacuum recovery truck. An AFVR event consists of the removal of total fluids from an existing well that has demonstrated the presence of free-phase product. The total gallons of product recovered are calculated from liquid and vapor removal measurements of hydrocarbons from the well.

An estimated 2,000 gallons of free product was recovered during 2000 from these monitoring wells. During 2001 an estimated 1,387 gallons of free product was recovered. During 2002 an estimated 900 gallons of free product was recovered. During 2003 an estimated 170 gallons of free product was recovered. During 2004 an estimated 790 gallons of free product was recovered. During 2005 an estimated 745 gallons of free product was recovered. During 2006 and the first five months of 2007 an estimated 800 gallons of free product was recovered. The high product recovery observed in 2004 continued through the first half of 2006. This high product recovery was due to the persistent occurrence of product in monitoring well USTHPFFC-MW72 (ranging from 1 to 15 feet thick) throughout the monitoring period. It appears that product was mobilized and flowed into the well during implementation of the bio-pulse pilot test. However, the new bio-pulse events in 2006 and 2007 have reversed this trend as evidenced by no AFVR events in October 2006, November 2006, February 2007, and March 2007. Free product was not present greater than 0.6 feet in thickness in monitoring well USTHPFFC-MW72 during these periods.

During this monitoring period from September 2005 through May 2007, a total of 55 AFVR events were completed at the HPFF Fuel Farm area (Southeast Compound) for a total of 757 gallons recovered from USTHPFFC-MW72 and 42 gallons of product recovered from USTHPFFC-MW15. Monitoring well USTHPFFC-MW72 was the only well that required AFVR events in 2005 and in 2007. In comparison, during the 2004 monitoring period AFVR events were conducted at USTHPFFC-MW15 (nine events, 100 gallons of product), HPGE32-3 (one event, 10 gallons of product), MW-2 (one event, 8 gallons of product) and USTHPFFC-MW72 (43 events, 670 gallons of product). AFVR events have not been performed at USTHPFF-MW11, USTHPFF-MW12, and

USTHPFFC-MW28 from September 1, 2003 through May 31, 2007. These monitoring wells had at least one AFVR event during 2002. These wells will continue to be monitored for product thickness. A summary table of the AFVR reports is provided in *Appendix A.*

3.4 FREE PRODUCT RECOVERY SYSTEM

Two free product recovery pumps (MW16R and RW5) have been in operation since September 1999 at the HPFF Southeast compound. The pump in recovery well RW4 was shutdown in September 2003 due to the absence of product observed in the well over a one year time period. During the 2006 monitoring period, product was not observed in RW4 (the fourth year in a row). Product thickness ranged from a sheen to 3.16 feet in MW16R and from 0.09 feet up to 3.10 feet in RW5. An estimated 216 gallons of product was recovered from these wells during the 2006 monitoring period. This is an increase of 38 gallons of product recovered compared to the previous year (i.e., 178 gallons recovered). An estimated 91 gallons of product was recovered from these two wells during the first five months of 2007.

During 2005 product thickness ranged from a sheen to 1.0 feet in MW16R and up to 1.2 feet in RW5 (product was not observed in RW4). During 2004 product thickness ranged from a sheen to 1.16 feet in MW16R and up to 1.61 feet in RW5 (product was not observed in RW4). During 2003 product thickness ranged from a sheen to 1.09 feet in MW16R and up to 0.97 feet in RW5 (product was not observed in RW4). During 2002, product thickness in these recovery wells ranged from a sheen to 0.8 feet in MW16R, 0.3 feet in RW4 and 0.5 feet in RW5. During 2001 product thickness ranged from 0.5 feet in MW16R, 0.2 feet in RW4 and 0.8 feet in RW5. During 2000, product thickness in these wells ranged from a sheen to 4.2 feet in MW16R, 2.5 feet in RW-4, and 2.0 feet in RW5. As much as 12.5 feet of product was measured in MW16R in 1999.

Product recovery ranged from a high of 37 gallons per month during August 2006 to a low of 11 gallons during June 2006. This is an increase from the previous year's high of 18 gallons recovered in April 2004. It appears that the increase of product recovered and thicknesses from the past two years may be due to the implementation of the bio-pulse pilot test. The product recovery system continues to be successful in reducing the volume of free phase product in the vicinity of the recovery wells.

4.0 GROUNDWATER MONITORING RESULTS

4.1 GROUNDWATER ELEVATION MEASUREMENTS

4.1.1 Building 1115 Area (Northwest Compound)

Groundwater level measurements at the HPFF Building 1115 Northwest compound were collected from 21 monitoring wells in January 2006 and 20 monitoring wells in October 2006. Measurements were recorded from 11 "shallow" (less than 50 feet deep) monitoring wells (1115-1, 1115-2, 1115-4, 1115-5, 1115-9, 1115-10, 1115-11, 1115-12, 78GW22-2, 1115GT-1, and 1115GT-9) for January 2006 and 10 "shallow" (less than 50 feet deep) monitoring wells (1115-1, 1115-2, 1115-4, 1115-5, 1115-9, 1115-11, 1115-12, 78GW22-2, 1115GT-1, and 1115GT-9) for October 2006; five "intermediate" (screened from 50 to 70 feet bls) monitoring wells (1115-13, 1115-14, 1115-15, 1115-17, and 1115-21) for January 2006 and October 2006; and five "deep" (greater than 70 feet deep) monitoring wells (1115-22, 1115-23, 1115-24, 1115-25, and IR78-GW19) for January 2006 and October 2006. Groundwater level measurements are presented in *Table 4.1.*

The groundwater measurement results from the January 2006 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 3.92 feet bls in UST1115GT-MW01 to 10.27 feet bls in UST1115-MW09. Groundwater elevations ranged from 17.72 feet National Geodetic Vertical Datum (NGVD) in UST1115-MW09 to 22.22 feet NGVD in UST1115-MW04.

- Depth to groundwater in the "intermediate" wells ranged from 8.25 feet bls in UST1115-MW21 to 9.84 feet bls in UST1115-MW14. Groundwater elevations ranged from 16.84 feet NGVD in UST1115-MW17 to 17.81 feet NGVD in UST1115-MW14.

- Depth to groundwater in the "deep" wells ranged from 6.96 feet bls in IR78-GW19 to 10.84 feet bls in UST1115-MW22. Groundwater elevations ranged from 16.26 feet NGVD in UST1115-MW22 to 22.22 feet NGVD in IR78-GW19.

Figure 4.1 presents groundwater elevations in January 2006 in the "shallow," "intermediate," and "deep" monitoring wells at the Building 1115 area.

The groundwater measurement results from the October 2006 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 4.18 feet bls in UST1115GT-MW01 to 8.60 feet bls in UST1115-MW01. Groundwater elevations ranged from 17.51 feet NGVD in UST1115-MW02 to 22.56 feet NGVD in UST1115-MW09.

- Depth to groundwater in the "intermediate" wells ranged from 8.17 feet bls in UST1115-MW15 to 11.00 feet bls in UST1115-MW14. Groundwater elevations ranged from 16.02 feet NGVD in UST1115-MW17 to 19.05 feet NGVD in UST1115-MW15.

- Depth to groundwater in the "deep" wells ranged from 6.18 feet bls in IR78-GW19 to 11.83 feet bls in UST1115-MW22. Groundwater elevations ranged from 15.27 feet NGVD in UST1115-MW22 to 23.00 feet NGVD in IR78-GW19.

Figure 4.2 presents groundwater elevations in October 2006 in the "shallow," "intermediate," and "deep" monitoring wells at the Building 1115 area.

4.1.2 HPFF Fuel Farm Area (Southeast Compound)

Groundwater level measurements at the HPFF Fuel Farm Area Southeast compound were collected from 17 monitoring wells in January 2006 and 16 monitoring wells in October 2006. Measurements were recorded from 17 "shallow" monitoring wells (USTHPFFC-MW01, USTHPFFC-MW03, USTHPFFC-MW05, USTHPFFC-MW14, USTHPFFC-MW19, USTHPFFC-MW20, USTHPFFC-MW24, USTHPFFC-MW28, USTHPFFC-MW30, USTHPFFC-MW42, USTHPFF-MW01, USTHPFF-MW06, USTHPFF-MW10R, USTHPFF-MW-11, USTHPFF-MW17A, USTHPFF-MW18, and USTHPFF-MW19) for January 2006 and all of these wells except USTHPFFC-MW14 in October 2006. Measurements were recorded from three "intermediate" monitoring wells (USTHPFFC-MW07, USTHPFFC-MW08, and USTHPFFC-MW09) for January 2006 and October 2006, and three "deep" monitoring wells (USTHPFFC-MW10, USTHPFFC-MW11, and USTHPFFC-MW11) in January 2006 and monitoring wells (USTHPFFC-MW10 and USTHPFFC-MW12) in October 2006.

Groundwater level measurements are presented in *Table 4.2*. The groundwater

measurement results from the January 2006 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 3.86 feet bls in USTHPFFC-MW30 to 11.87 feet bls in USTHPFF-MW10R. Groundwater elevations ranged from 18.50 feet NGVD in USTHPFF-MW11 to 23.17 feet NGVD in USTHPFFC-MW01.

- Depth to groundwater in the "intermediate" wells ranged from 8.00 feet bls in USTHPFFC-MW09 to 15.00 feet bls in USTHPFFC-MW08. Groundwater elevations ranged from 18.74 feet NGVD in USTHPFFC-MW09 to 19.52 feet NGVD in USTHPFFC-MW08.

- Depth to groundwater in the "deep" wells ranged from 8.24 feet bls in USTHPFFC-MW12 to 13.50 feet bls in USTHPFFC-MW11. Groundwater elevations ranged from 18.44 feet NGVD in USTHPFFC-MW12 to 19.03 feet NGVD in USTHPFFC-MW10.

Figure 4.3 presents groundwater elevations in January 2006 in the "shallow," "intermediate," and "deep" monitoring wells at the Fuel Farm area.

The groundwater measurement results from the October 2006 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 4.53 feet bls in USTHPFFC-MW01 to 12.26 feet bls in USTHPFF-MW10R. Groundwater elevations ranged from 19.81 feet NGVD in USTHPFFC-MW05 to 23.44 feet NGVD in USTHPFFC-MW01.

- Depth to groundwater in the "intermediate" wells ranged from 8.48 feet bls in USTHPFFC-MW09 to 15.78 feet bls in USTHPFFC-MW08. Groundwater elevations ranged from 18.10 feet NGVD in USTHPFFC-MW07 to 18.74 feet NGVD in USTHPFFC-MW08.

- Depth to groundwater measurements in the "deep" wells ranged from 5.26 feet bls in USTHPFFC-MW12 to 14.43 feet bls in USTHPFFC-MW10. Groundwater elevations ranged from 18.01 feet NGVD in USTHPFFC-MW10 to 21.42 feet bls NGVD in USTHPFFC-MW12 .

Figure 4.4 presents groundwater elevations recorded in October 2006 in the "shallow," "intermediate," and "deep" monitoring wells respectively at the Fuel Farm Southeast Compound area.

4.2 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

4.2.1 Building 1115 Area (Northwest Compound)

Groundwater sample collection and analysis was completed in January 2006 and October 2006. The samples were analyzed for Volatile Organic Analysis (VOAs) using Method 602 and polynuclear aromatic hydrocarbons (PAHs) using Method 610. In January 2006, a total of seven "shallow" wells (UST1115-MW01, UST1115-MW02, UST1115-MW04, IR78GW22-2, UST1115GT-MW01, UST1115GT-MW07, and UST1115GT-MW09), four "intermediate" wells (UST1115-MW13, UST1115-MW17, UST1115-MW18, and UST1115-MW21) and four "deep" wells (UST1115-MW22, UST1115-MW23, UST1115-MW24, and UST1115-MW25) were sampled. All but two monitoring wells (UST1115-MW01 and UST1115-MW18) sampled displayed COCs of at least one contaminant in excess of North Carolina's Groundwater Quality Standards (NCGQS) during the January 2006 sampling event. Analytical results from the January 2006 sampling event indicated concentrations of COCs above NCGQS in six of the seven shallow monitoring wells ranging from UST1115-MW04 (9.0 µg/L, benzene) to UST1115GT-MW01 (1,100 µg/L, benzene). Three of the four intermediate monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW17 (39.3 µg/L, benzene) to UST1115-MW13 (263 µg/L, benzene). All four deep monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW24 (1,750 µg/L, benzene) to UST1115-MW23 (7,230 µg/L, benzene). Only one monitoring well UST1115-MW-13 exceeded the naphthalene NCGQS concentration at 58.7 µg/L.

Groundwater natural attenuation parameters and analytical results of the COCs for the January 2006 sampling event are presented in *Tables 4.3 and 4.4.* Historical groundwater analytical results are provided in *Appendix B.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.7.* The complete laboratory analytical reports showing all detections are provided in *Appendix C.* The groundwater sample collection field logs are provided in *Appendix D.*

The second semi-annual sampling event was completed in October 2006. A total of 14 monitoring wells were sampled during this event. The samples were analyzed for VOAs

using Method 602 and PAHs using Method 610. All 14 monitoring wells sampled displayed at least one COCs in excess of NCGQS during the October 2006 sampling event. Analytical results from the sampling event indicated concentrations of COCs above NCGQS in the seven shallow monitoring wells ranging from UST1115GT-MW09 (9.7 µg/L, benzene) to UST1115GT-MW01 (2,720 µg/L, benzene). All three intermediate monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW17 (168 µg/L, benzene) to UST1115-MW13 (278 µg/L, benzene). All four deep monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW23 (1,910 µg/L, benzene) to UST1115-MW25 (5,160 µg/L, benzene). Only one monitoring well UST1115-MW-13 exceeded the naphthalene NCGQS concentration at 68.1 µg/L.

Groundwater natural attenuation parameters and analytical results of the COCs for the October 2006 sampling event are presented in *Tables 4.5 and 4.6.* Historical groundwater analytical results are provided in *Appendix B.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.7.* The complete laboratory analytical reports showing all detections are provided in *Appendix C.* The groundwater sample collection field logs are provided in *Appendix D.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

4.2.2 HPFF Fuel Farm Area (Southeast Compound)

Groundwater sample collection and analysis was completed in January 2006 and October 2006. The samples were analyzed for VOAs using Method 602 and PAHs using Method 610. In January 2006 a total of 9 "shallow" wells (USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW19, USTHPFFC-MW20, USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW11, USTHPFF-MW17A, and USTHPFF-MW18), three "intermediate" wells (USTHPFFC-MW07, USTHPFFC-MW08, and USTHPFFC-MW09) and one "deep" well (USTHPFFC-MW11) were sampled.

Of the 13 monitoring wells sampled in January 2006, 9 displayed at least one of the COCs in excess of NCGQS. Analytical results from the January 2006 groundwater sampling event detected concentrations of COCs above benzene NCGQS in seven of nine shallow monitoring wells ranging from USTHPFF-MW11 (53.6 µg/L) to USTHPFF-MW18 (12,400 µg/L). Detected concentrations of COCs above ethylbenzene NCGQS were detected in six of nine shallow monitoring wells ranging from USTHPFF-MW10R (631 µg/L) to USTHPFF-MW01 (2,850 µg/L). Detected concentrations of COCs above toluene NCGQS were detected in six of nine shallow monitoring wells ranging from

USTHPFF-MW10R (2,190 µg/L) to USTHPFF-MW18 (26,100 µg/L). Detected concentrations of COCs above xylenes NCGQS were detected in six of nine shallow monitoring wells ranging from USTHPFF-MW10R (2,940 µg/L) to USTHPFF-MW01 (13,100 µg/L). Detected concentrations of COCs above naphthalene NCGQS were detected in six of nine shallow monitoring wells ranging from USTHPFF-MW10R (99.6 µg/L) to USTHPFF-MW18 (473 µg/L).

Analytical results from the January 2006 groundwater sampling event detected concentrations of COCs above NCGQS in one of three intermediate monitoring wells where monitoring well USTHPFFC-MW08 exceeded the following concentrations: (7,480 µg/L, benzene; 617 µg/L, total xylenes; and 87.7 µg/L, naphthalene).

Analytical results from the January 2006 groundwater sampling event detected concentrations of COCs above NCGQS where deep monitoring well USTHPFFC-MW11 exceeded the following concentration: (96.7 µg/L, benzene).

Groundwater natural attenuation parameters and analytical results of the COCs for the January 2006 sampling event are presented in *Tables 4.7 and 4.8.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.8.* Historical groundwater analytical results are provided in *Appendix B.* The groundwater sample collection field logs are provided in *Appendix D.* The complete laboratory analytical reports showing all detections are provided in *Appendix E.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

In October 2006 a total of nine "shallow" wells (USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW08, USTHPFFC-MW20, USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW11, USTHPFF-MW17A, and USTHPFF-MW18), three "intermediate" wells (USTHPFFC-MW07, USTHPFFC-MW08 and USTHPFFC-MW09) and one "deep" well (USTHPFFC-MW11) were sampled.

All of the 13 monitoring wells sampled in October 2006 displayed at least one of the COCs in excess of NCGQS. Analytical results from the October 2006 groundwater sampling event detected concentrations of COCs above benzene NCGQS in all nine shallow monitoring wells ranging from USTHPFF-MW11 (3.7 µg/L) to USTHPFF-MW18 (10,300 µg/L). Detected concentrations of COCs above ethylbenzene NCGQS were detected in four of nine shallow monitoring wells ranging from USTHPFF-MW10R (650 µg/L) to USTHPFF-MW17A (2,240 µg/L). Detected concentrations of COCs above toluene NCGQS were detected in four of nine shallow monitoring wells ranging from USTHPFF-MW10R (1,990 µg/L) to USTHPFF-MW18 (20,400 µg/L). Detected concentrations of COCs above xylenes NCGQS were detected in six of nine shallow monitoring wells ranging from USTHPFF-MW19 (615 µg/L) to USTHPFF-MW01 (9,330 µg/L). Detected concentrations of COCs above naphthalene NCGQS were detected in five of nine shallow monitoring wells ranging from USTHPFF-MW20 (53.8 µg/L) to USTHPFF-MW18 (465 µg/L).

Analytical results from the October 2006 groundwater sampling event detected concentrations of COCs above NCGQS in all three intermediate monitoring wells where wells exceeded the benzene NCGQS ranging from USTHPFFC-MW07 (4.7 µg/L) to USTHPFFC-MW08 (4,940 µg/L). Monitoring well USTHPFFC-MW08 also exceeded the following concentrations: (695 µg/L, total xylenes; and 95.7 µg/L, naphthalene).

Analytical results from the October 2006 groundwater sampling event detected concentrations of COCs above NCGQS in deep monitoring well USTHPFFC-MW11 at the following concentrations: (41.2 µg/L, benzene).

Groundwater natural attenuation parameters and analytical results of the COCs for the October 2006 sampling event are presented in *Tables 4.9 and 4.10.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.10.* Historical groundwater analytical results are provided in *Appendix B.* The groundwater sample collection field logs are provided in *Appendix D.* The complete laboratory analytical reports showing all detections are provided in *Appendix E.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

5.0 CONCLUSIONS

5.1 AFVR EVENTS

During the reporting period from September 2005 through May 2007, a total of 55 AFVR events were completed at the HPFF Fuel Farm area (Southeast Compound), recovering an estimated 800 gallons of free product. This is about the same as the 745 gallons of product recovered during the previous period with 48 AFVR events. During this monitoring period, AFVR events were conducted at monitoring wells USTHPFFC - MW72 and USTHPFFC-MW15.

With the exception of USTHPFFC-MW72, AFVR events have reduced the product thickness to less than 1-foot in wells that have historically displayed free product. The AFVR events continue to be effective in removing free phase product from the subsurface.

5.2 GROUNDWATER ELEVATION MEASUREMENTS

Groundwater elevations at select monitoring wells were measured during each groundwater sampling event (January and October 2006). All of the wells were resurveyed for MCB Camp Lejeune during 2006 to put all of the site wells on the same datum elevation.

5.2.1 Building 1115 Area (Northwest Compound)

Differences in elevations from the different depth intervals indicate a significant downward vertical hydraulic gradient at the site (*Figures 4.1 and 4.2).* This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

Figures 4.5A and *4.6A* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the shallow monitoring wells. During the January 2006 groundwater monitoring event the groundwater flow direction at the northwest compound appears to be variable but trending overall to the southwest with a hydraulic gradient of approximately 0.004 ft/ft. During the October 2006 groundwater monitoring event the groundwater flow direction at the northwest compound appears to be southwest with a hydraulic gradient of approximately 0.006 ft/ft.

Figures 4.5B and *4.6B* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the intermediate monitoring wells. The groundwater flow direction at the northwest compound appears to be west-northwest with a hydraulic gradient of 0.004 ft/ft for both monitoring events.

Figures 4.5C and *4.6C* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the deep monitoring wells. The groundwater flow direction at the northwest compound appears to be predominantly west with a hydraulic gradient of 0.004 ft/ft for both monitoring events.

In general, groundwater elevations observed during 2006 at the northwest compound were one-half to one foot lower than elevations observed during 2005.

5.2.2 HPFF Fuel Farm Area (Southeast Compound)

As observed at the northwest compound, differences in elevations from the different depth intervals indicate a significant downward vertical hydraulic gradient at the site (*Figures 4.3 and 4.4).* This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

Figures 4.5A and *4.6A* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the shallow monitoring wells. The groundwater flow direction at the southeast compound appears to be to the southwest with a hydraulic gradient of 0.005 ft/ft for both monitoring events.

Figures 4.5B and *4.6B* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the intermediate monitoring wells. The groundwater flow direction at the southeast compound appears to be to the west with a hydraulic gradient of 0.002 ft/ft for both monitoring events.

Figures 4.5C and *4.6C* present groundwater elevation contour maps for January and October 2006 respectively produced from groundwater elevations from the deep monitoring wells. The groundwater flow direction at the southeast compound appears to be to the west with a hydraulic gradient of 0.003 ft/ft for both monitoring events.

In general, groundwater elevations observed at the southeast compound during 2006 were about the same as elevations observed during 2005.

5.3 GROUNDWATER ANALYTICAL RESULTS

5.3.1 Building 1115 Area (Northwest Compound)

5.3.1.1 Shallow Monitoring Wells

Shallow monitoring wells UST1115GT-MW01, IR78GW22-2, UST1115-MW01, UST1115-MW02, and UST1115-MW04 have been sampled semiannually since January 1999. To better define the horizontal extent of contamination on the north and east area of the site, monitoring wells UST1115GT-MW07 and UST1115GT-MW09 were added during the August 2002 sampling event. Of the seven monitoring wells sampled during the January 2006 sampling event, all but one monitoring well (UST1115T-MW01) detected benzene COCs at concentrations above the NCGQS during the January 2006 sampling event. During the October 2006 sampling event all seven monitoring wells detected benzene COCs above the NCGQS.

Concentrations of COCs increased significantly in all of the above mentioned shallow monitoring wells during both of the 2006 monitoring events. The new HPFF Bio-Pulse Air Sparge System should reverse this trend and decrease concentrations of COCs as the bio-pulsing continues. Groundwater natural attenuation parameters and analytical results from the seven shallow monitoring wells for the January 2006 and October 2006 sampling events are presented in *Tables 4.3,4.4, 4.5, and 4.6. Figure 4.7* presents groundwater analytical results from the two monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.1.2 Intermediate Monitoring Wells

Intermediate monitoring wells UST1115-MW13, UST1115-MW17, UST1115-MW18, and UST1115-MW21, have been sampled semiannually since January 1999. All four of these monitoring wells have consistently displayed dissolved COC concentrations above NCGQS over this period. Dissolved benzene concentrations continue to persist in all four wells at relatively high concentrations, and naphthalene concentrations continue to persist at relatively high concentrations in monitoring well UST1115-MW13.

Concentrations of benzene COCs increased in intermediate monitoring wells UST1115-MW13 and UST1115-MW17, and decreased in intermediate monitoring wells UST1115-MW18 and UST1115-MW21 during both of the 2006 monitoring events. However, monitoring well UST1115-MW18 was not sampled in October 2006. The naphthalene concentrations have continued to decrease in monitoring well UST1115-MW13 in 2006.

A reduction in dissolved contaminant concentrations in the intermediate wells is expected to begin occurring at an accelerated rate as the new HPFF Bio-Pulse Air Sparge System is utilized. Groundwater natural attenuation parameters and analytical results from the four intermediate Type III monitoring wells for the January 2006 and October 2006 sampling events are presented in *Tables 4.3,4.4, 4.5, and 4.6. Figure 4.7* presents groundwater analytical results from the two monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.1.3 Deep Monitoring Wells

Deep monitoring wells UST1115-MW22, UST1115-MW23, UST1115-MW24, and UST1115-MW25 have been sampled semiannually since January 1999. These monitoring wells continue to demonstrate relatively high COC concentrations. All four monitoring wells have fluctuated in contaminant concentrations during the 2006 sampling events and these concentrations remained approximately the same as the 2005 analytical results.

A reduction in dissolved contaminant concentrations in the deep wells is expected to begin occurring at an accelerated rate as the new HPFF Bio-Pulse Air Sparge System is utilized. Groundwater natural attenuation parameters and analytical results from the four deep Type III monitoring wells for the January 2006 and October 2006 sampling events are presented in *Tables 4.3,4.4, 4.5, and 4.6. Figure 4.7* presents groundwater analytical results from the two monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.1.4 Groundwater Analytical Results Summary

It appears that free-phase product has been removed from the groundwater surface in this area of the site. This is evidenced by the absence of AFVR events dating back to 2000 and the decreasing trend of dissolved COCs in the "shallow" (less than 50 feet bls) surficial aquifer. However, the significant downward vertical hydraulic gradient observed at the site appears to be transporting dissolved COCs into the deeper groundwater zones. *Figure 5.0* presents the estimated extent of dissolved benzene in the "shallow" zone in October 2006 at the northwest compound which indicates that the plume has increased in size since 2005. *Figure 5.1* presents the estimated extent of dissolved benzene in the "shallow" zone in August 2005 at the northwest compound. For comparison purposes *Figures 5.2, 5.3, 5.4, 5.5, 5.6* and 5.7 present the estimated extent of dissolved benzene in August 2004, August 2003, July 2002, July 2001, July 2000, and July 1999 respectively.

The "intermediate" (50 to 70 feet bls) and "deep" zones continue to display the highest dissolved concentrations of COCs. This indicates that natural attenuation and the AS/SVE system are operating as expected to reduce contaminant levels in the shallow aquifer at the site. However, natural attenuation appears to be occurring at a much slower rate at depths greater than 50 feet bls. As concentrations of COCs in the "shallow" zone continue to decrease, the deeper zones should begin to demonstrate a similar trend. Implementation of the bio-pulse remediation system began in September 2006. The system was designed to inject air into the subsurface at a depth of 130 to 150 feet bls that will increase the dissolved oxygen (DO) concentration in the deep aquifer zone. The increased DO concentration is expected to stimulate microbial activity leading to increased degradation of the deep contaminant plume. Another year of groundwater monitoring should be completed to provide information to determine if a decreasing trend develops.

5.3.2 HPFF Fuel Farm Area (Southeast Compound)

5.3.2.1 Shallow Monitoring Wells

Shallow monitoring wells USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW11, USTHPFF-MW17A, USTHPFF-MW18, USTHPFFC-MW01, USTHPFFC-MW19, and USTHPFFC-MW20 have been sampled semiannually since January 1999. Monitoring well USTHPFFC-MW05 was sampled for the first time in August 2002 to better define the horizontal extent of contamination at the western plume boundary. Of the nine monitoring wells sampled during the January 2006 sampling event, all but two monitoring wells (USTHPFFC-MW01 and USTHPFFC-MW05) detected COCs at concentrations above the NCGQS. During the October 2006 sampling event all nine monitoring wells detected COCs above the NCGQS. During 2006 the concentrations of COCs showed an increasing trend from 2005 in monitoring wells USTHPFFC-MW01, USTHPFFC-MW05, USTHPFF-MW10R, and USTHPFF-MW11, while USTHPFF-MW01, USTHPFF-MW17A, USTHPFF-MW18, USTHPFFC-MW19, and USTHPFFC-MW20 indicated a decreasing trend.

Concentrations of COCs in most of the monitoring wells continue to fluctuate slightly, but in general, have not decreased significantly since the remedial system was placed in operation. The concentrations remain very high compared to the NCGQS. Groundwater natural attenuation parameters and analytical results from the nine Type II monitoring wells for the January 2006 and October 2006 sampling events are presented in *Tables 4.7,4.8,4.9, and 4.10. Figure 4.8* presents groundwater analytical results from the two

monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.2.2 Intermediate Monitoring Wells

Intermediate monitoring wells USTHPFFC-M07 and USTHPFFC-MW08 have been sampled semiannually since January 1999. Of these monitoring wells, the benzene concentration in USTHPFFC-MW07 has increased slightly from 2005 to 2006. Monitoring well USTHPFFC-MW08 continues to display BTEX concentrations well above the NCGQS. Monitoring well USTHPFFC-MW09 was sampled for the first time in August 2002 to evaluate contamination at the intermediate depth on the western portion of the site. Since then BTEX concentrations consistently decreased from a high of 12,581 µg/L (total BTEX) to <1.0 µg/L during the 2004 and 2005 sampling events. BTEX concentrations increased above NCGWQS for the first time during the October 2006 groundwater sampling event. The new HPFF Bio-Pulse Air Sparge System should reverse this trend and decrease concentrations of COCs as the bio-pulsing continues.

Groundwater natural attenuation parameters and analytical results from the three Type III monitoring wells for the January 2006 and October 2006 sampling events are presented in *Tables 4.7,4.8,4.9, and 4.10. Figure 4.8* presents groundwater analytical results from the two monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.2.3 Deep Monitoring Wells

Deep monitoring wells IR78-GW32-2 (screened 64-74 feet bls) and IR78-GW32-3 (screened 140-150 feet bls) have been sampled semiannually since January 1999. Deep monitoring wells IR78-GW32-2 and IR78-GW32-3 continue to display benzene concentrations above the NCGQS through 2005, however, these two wells could not be located in 2006 and were not sampled. Monitoring well USTHPFFC-MW11 (screened 105-110 feet bls) was sampled for the first time in August 2002 to evaluate the vertical extent of contamination in the central portion of the site. The benzene concentration has demonstrated a consistent decrease from 809 µg/L (August 2002) to 41.2 µg/L (December 2006).

Groundwater natural attenuation parameters and analytical results from the one Type III monitoring well for the January 2006 and October 2006 sampling events are presented in *Tables 4.7,4.8,4.9, and 4.10. Figure 4.8* presents groundwater analytical results from the

two monitoring events in 2006. Historical groundwater analytical results are provided in *Appendix B.*

5.3.2.4 Groundwater Analytical Results Summary

Free-phase product continues to persist on the groundwater surface in isolated areas of the southeast compound area. Free product was detected in monitoring wells USTHPFFC-MW15 and USTHPFFC-MW72 and recovery wells RW5 and MW16R during this monitoring period. When free product is detected in a monitoring well in excess of 0.6 feet an AFVR event is performed at that monitoring well. The number of AFVR events performed at a particular well throughout the year is a good indicator of the volume of product remaining in the vicinity of a monitoring well (i.e., fewer numbers of AFVR events means longer product recharge time, indicating less free product in the area of the well). Free product was not observed in USTHPFFC-MW02, USTHPFF-MW18, and USTHPFF-MW12 during this monitoring period. Continued AFVR events and operation of the remedial system will remove measurable product from these wells in the next year.

AFVR events in select wells have reduced free product thickness in the wells during 2006 and 2007 ranging from a sheen to 16.37 feet in USTHPFFC-MW72 and a sheen to 0.73 feet in USTHPFF-MW15. Implementation of the first bio-pulse air sparging event in October and November 2006 reduced the free product thickness in USTHPFFC-MW72 to a sheen during this time period and future bio-pulse air sparging events should help reduce free product occurrence in these persistent free product areas. High concentrations of dissolved-phase COCs will continue to persist in the shallow groundwater until the free-phase product has been removed. AFVR events will continue to be performed on monitoring wells displaying the presence of free-phase product. The significant downward vertical hydraulic gradient observed at the site appears to be transporting dissolved COCs into the deeper groundwater zones. *Figure 5.0* presents the estimated extent of dissolved benzene in the "shallow" zone in October 2006 at the southeast compound which indicates that the plume has increased in size since 2005. *Figure 5.1* presents the estimated extent of dissolved benzene and free product in the "shallow" zone in August 2005 at the HPFF. For comparison purposes, *Figures 5.2, 5.3, 5.4, 5.5 5.6* and *5.7* present the estimated extent of dissolved benzene and free product in 2004, 2003, 2002, 2001, 2000 and 1999, respectively.

The "intermediate" (50 to 70 feet bls) zone continues to display high dissolved concentrations of COCs. While concentrations continue to exceed NCGQS in the "deep" (greater than 70 feet bls) zone, a decreasing trend has developed. As the AS/SVE remedial system continues to reduce contaminant concentrations in the upper portion of the aquifer, natural attenuation is expected to reduce COCs concentrations to below NCGQS in the "deep" zone. Therefore, additional "deep" monitoring wells are not required to delineate the vertical extent of dissolved contaminants at the site at this time.

Implementation of the bio-pulse remediation system began in September 2006. The system was designed to inject air into the subsurface at a depth of 130 to 150 feet bls that will increase the dissolved oxygen (DO) concentration in the deep aquifer zone. The increased DO concentration is expected to stimulate microbial activity leading to increased degradation of the deep contaminant plume. Another year of groundwater monitoring should be completed to provide information to determine if a decreasing trend develops.

6.0 RECOMMENDATIONS

CATLIN prepared a *Revised Corrective Action Plan (CAP) for Hadnot Point Fuel Farm*, dated June 2003 which recommended continued AFVR events to recover free phase product from monitoring wells, continued operation of the AS/SVE system for groundwater treatment (10 to 50 feet bls) and hydrocarbon vapor control, implementation of the Bio-Pulse Sparge system presented in the RCAP to treat groundwater to depths of 150 feet bls and groundwater recovery (30 gpm from well USTHPFFC-MW75) to ensure hydraulic control at the site.

Shaw implemented the HPFF bio-pulse air sparge system in September through November 2006 by initiating the first bio-pulse cycling of the 25 bio-pulse wells with a 24 hour bio-pulse event for each well in conjunction with routine air monitoring of the interiors and exteriors of the five buildings. An active soil depressurization system (ASD) was installed to provide vapor protection in Buildings 1108, 1200, 1201, 1202, and 1301 and daily air monitoring readings were taken before, during, and after this first bio-pulse cycling event. Shaw installed an additional vent system in Building 1101 due to above normal FID readings recorded at Building 1101 near the end of the first bio-pulse event. FID readings throughout Building 1101 and all other monitored HPFF buildings were within the "safe" range as well as the LEL readings after installation of the new system.

CATLIN prepared an *Operational Addendum to Corrective Action Plan for Hadnot Point Fuel Farm*, dated March 2007 which was an evaluation of the first bio-pulse cycling event performed by Shaw in the last quarter of 2006. The report recommended reducing the next round of bio-pulse sparging in each well from 24 hours to an estimated termination time for the air pulses in each bio-pulse well. Shaw is now utilizing a continuous flow meter with recorder to develop an air flow versus time graph for each individual sparge well. The new data will be used to evaluate each well for the maximum effectiveness. Specific recommendations will be made after each round of sparging events.

6.1 BUILDING 1115 AREA (NORTHWEST COMPOUND)

The new HPFF bio-pulse air sparge cycling events will now be combined with the existing AS/SVE remedial system to accelerate the natural attenuation process at the northwest compound. The use of both systems will now increase the dissolved oxygen concentration in the groundwater in the shallow, intermediate and deep zones.

As concentrations of COCs in the "shallow" zone continue to decrease from the existing AS/SVE remedial system , the deeper zones should begin to demonstrate a similar trend from the bio-pulse air sparge cycling events. To assist in the evaluation of natural attenuation processes, groundwater samples should be analyzed for the following natural attenuation parameters in the new selected monitoring wells:

- Field Screened: temperature, conductivity, turbidity, pH, dissolved oxygen, and oxidation-reduction parameters (ORP)

The following monitoring wells should be sampled during the 2007 annual monitoring event scheduled between July and September 2007:

- Type II monitoring wells: Fifteen monitoring wells (UST1115GT-MW01, UST1115GT-MW07, UST1115GT-MW09, UST1115-MW01, UST1115-MW02, UST1115-MW04, UST1115-MW07, UST1115-MW09, USTHPFF-MW12, USTHPFF-MW20, USTHPFFC-MW36, USTHPFFC-MW39, USTHPFFC-MW48, USTHPFFC-MW51, and USTHPFFC-MW54) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.
- Type III "intermediate" monitoring wells: Thirteen monitoring wells (UST1115-MW13, UST1115-MW14, UST1115-MW15, UST1115-MW17, UST1115-MW18, UST1115-MW20, UST1115-MW21, USTHPFFC-MW44, USTHPFFC-MW47, USTHPFFC-MW50, USTHPFFC-MW53, USTHPFFC-MW73, and USTHPFFC-MW76) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.
- Type III "deep" monitoring wells: Nine monitoring wells (UST1115-MW22, UST1115-MW23, UST1115-MW24, UST1115-MW25, USTHPFFC-MW13, USTHPFFC-MW43, USTHPFFC-MW55, USTHPFFC-MW56, and USTHPFFC-MW74) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.

A depth to groundwater/product survey should be completed at select monitoring wells at the site at the annual event. The survey will be performed just prior to the annual sampling event. Results of this survey will provide a comprehensive groundwater elevation contour map of the site, as well as the current extent of free phase product.

Analytical results from the 2007 sampling event will be reviewed and recommendations for future remedial work at the site will be developed as appropriate. *Table 6.1* presents the monitoring wells to be sampled and analytical parameters for the annual sampling event.

6.2 HPFF FUEL FARM AREA (SOUTHEAST COMPOUND)

Continue AFVR events at select monitoring wells that demonstrate the presence of free-phase product as needed. At a minimum, the following monitoring wells will be gauged weekly for the presence of free-phase product: USTHPFFC-MW15, USTHPFFC-MW72, USTHPFF-MW12, USTHPFF-MW02, USTHPFF-MW15, and USTHPFF-MW18.

Natural attenuation processes may be equally as effective as observed at the Northwest Compound, however, due to the persistence of free-phase product at the site that continually contributes to the dissolved phase concentrations, a net reduction in concentration is not occurring. High dissolved BTEX concentrations have continued to persist, particularly in the vicinity of free phase product. Once free product has been removed from the subsurface, a similar trend as that observed in the northwest compound should develop.

The new HPFF bio-pulse air sparge cycling events will now be combined with the existing AS/SVE remedial system accelerate the natural attenuation process at the southeast compound. The use of both systems will now increase the dissolved oxygen concentration in the groundwater in the shallow, intermediate and deep zones.

To assist in the evaluation of natural attenuation processes, the following natural attenuation parameters should be analyzed for in select monitoring wells:

- Field Screened: temperature, conductivity, turbidity, pH, dissolved oxygen, and oxidation-reduction parameters (ORP)

The following monitoring wells should be sampled during the 2007 annual monitoring event scheduled between July and September 2007:

- Type II monitoring wells: Twenty-one monitoring wells (USTHPFF-MW01, USTHPFF-MW06, USTHPFF-MW09, USTHPFF-MW10R, USTHPFF-MW-11, USTHPFF-MW15, USTHPFF-MW17A, USTHPFF-MW18, USTHPFF-MW19, USTHPFFC-MW01, USTHPFFC-MW02, USTHPFFC-MW03, USTHPFFC-MW05, USTHPFFC-MW12, USTHPFFC-MW15, USTHPFFC-MW19, USTHPFFC-MW20, USTHPFFC-MW31, USTHPFFC-MW38, USTHPFFC-MW72, and UST1101-MW01) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.
- Type III "intermediate" monitoring wells: Nine monitoring wells (USTHPFFC-MW06, USTHPFFC-MW07, USTHPFFC-MW08, USTHPFFC-MW09, USTHPFFC-MW61, USTHPFFC-MW63, USTHPFFC-MW66, USTHPFFC-MW70, and USTHPFFC-MW77) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.
- Type III "deep" monitoring wells: Seven monitoring wells (USTHPFFC-MW10, USTHPFFC-MW11, USTHPFFC-MW59, USTHPFFC-MW60, USTHPFFC-MW71, IR78GW17-02, and IR78GW31-02) will be sampled. The samples will be analyzed for VOAs using EPA Method 8260 and the above-listed natural attenuation parameters.

A depth to groundwater/product survey should be completed at select monitoring wells at the site at the annual event. The survey will be performed just prior to the annual sampling event. Results of this survey will provide a comprehensive groundwater elevation contour map of the site, as well as the current extent of free phase product.

Analytical results from the 2007 sampling event will be reviewed and recommendations for future remedial work at the site will be developed as appropriate. *Table 6.2* presents the monitoring wells to be sampled and analytical parameters for the annual sampling event.

7.0 REFERENCES

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TABLES

Table 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
09/01/05	11:30	43611	7	8200	578	659	0.04	2.19	15503.79	
09/08/05	9:15	43776	7	8800	567	721	0.04	2.40	15519.59	
09/16/05	13:25	43904	13	8800	575	711	0.07	4.40	15537.72	
09/22/05	12:40	43944	9	8600	577	692	0.05	2.96	15543.86	
09/30/05	10:30	44042	10	6900	568	564	0.05	2.69	15555.40	
10/06/05	17:40	44135	7	6700	571	545	0.04	1.82	15564.12	
10/13/05	15:25	44225	13	7200	569	588	0.07	3.64	15574.34	
10/21/05	10:45	44410	17	7400	574	599	0.09	4.85	15607.04	
10/27/05	15:30	44460	9	7200	560	597	0.05	2.56	15614.75	
11/05/05	12:30	44562	12	6900	570	562	0.06	3.21	15627.02	
11/10/05	12:15	44650	16	7100	559	590	0.09	4.49	15641.14	
11/17/05	12:15	44818	11	7200	537	623	0.06	3.26	15668.27	
11/23/05	9:45	44864	10	7700	536	667	0.05	3.18	15674.44	
12/02/05	16:45	44936	14	7700	546	655	0.07	4.36	15685.75	
12/07/05	11:00	44947	8	7600	524	674	0.04	2.57	15687.34	
12/16/05	11:50	45101	14	7800	548	661	0.07	4.41	15709.71	
12/23/05	11:45	45119	14	8100	533	706	0.07	4.71	15713.13	
12/29/05	16:50	45166	16	7800	545	665	0.09	5.06	15722.69	
01/03/06	11:00	45189	14	8400	541	721	0.07	4.81	15727.42	
01/12/06	10:30	45355	17	6900	550	583	0.09	4.72	15760.35	
01/17/06	9:30	45474	22	7100	558	591	0.12	6.19	15787.38	
01/24/06	16:35	45636	10	7200	555	602	0.05	2.87	15817.93	
02/02/06	12:00	45771	14	6900	558	574	0.07	3.83	15836.75	
02/08/06	13:10	45897	21	7300	544	623	0.11	6.23	15863.15	
02/17/06	9:30	46093	13	7100	553	596	0.07	3.69	15903.66	
02/24/06	9:05	46259	25	7600	548	644	0.13	7.67	15942.93	
03/02/06	11:00	46365	17	6600	573	535	0.09	4.33	15969.41	
03/08/06	15:30	46462	37	7100	548	602	0.20	10.60	15999.58	
03/14/06	12:45	46605	21	6800	562	562	0.11	5.62	16047.88	
03/21/06	12:15	46758	14	7300	547	620	0.07	4.13	16078.96	
03/28/06	14:15	46929	9	7100	554	595	0.05	2.55	16102.76	
04/05/06	15:20	47121	12	6800	567	557	0.06	3.18	16125.68	
04/14/06	13:00	47310	12	6700	576	540	0.06	3.08	16150.34	
04/18/06	10:30	47342	23	6700	553	563	0.12	6.16	16156.51	
04/25/06	12:00	47450	7	6800	558	566	0.04	1.89	16174.61	

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MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
05/02/06	12:00	47518	9	7100	564	584	0.05	2.50	16180.83	
05/10/06	10:30	47610	11	6400	566	525	0.06	2.75	16190.89	
05/15/06	11:15	47730	6	6500	572	528	0.03	1.51	16201.53	
05/22/06	13:00	47901	15	6300	570	513	0.08	3.66	16219.95	
06/02/06	16:30	48167	11	6400	576	516	0.06	2.70	16255.22	
06/06/06	9:30	48256	11	6800	566	558	0.06	2.92	16265.64	
06/12/06	14:30	48406	15	6700	579	537	0.08	3.84	16286.75	
06/20/06	9:35	48592	13	6400	577	515	0.07	3.19	16313.96	
06/29/06	15:40	48770	17	6800	584	541	0.09	4.38	16342.00	
07/06/06	16:40	48825	19	6300	574	510	0.10	4.61	16352.30	
07/12/06	9:35	48939	12	6200	582	495	0.06	2.83	16369.96	
07/19/06	17:05	49113	10	7000	585	556	0.05	2.64	16389.79	
07/26/06	17:30	49258	14	7100	568	581	0.07	3.87	16409.47	
08/04/06	11:20	49427	16	6600	585	524	0.09	3.99	16437.14	
08/08/06	12:00	49526	12	7400	584	589	0.06	3.36	16452.31	
08/15/06	11:00	49693	15	7100	587	562	0.08	4.01	16477.96	
08/22/06	13:10	49856	17	6300	575	509	0.09	4.11	16505.55	
08/29/06	8:00	50001	13	6700	576	540	0.07	3.34	16528.07	
09/06/06	16:00	50071	18	6800	571	553	0.10	4.74	16539.86	
09/12/06	10:05	50116	10	6600	559	548	0.05	2.61	16546.75	
09/23/06	10:35	50297	13	6800	575	549	0.07	3.40	16569.40	
09/26/06	15:15	50375	18	7900	577	636	0.10	5.45	16583.77	
10/04/06	8:40	50559	8	7800	561	646	0.04	2.46	16614.08	
10/11/06	15:05	50697	16	8400	573	680	0.09	5.18	16636.05	
10/18/06	15:20	50863	10	8300	574	672	0.05	3.20	16665.02	
10/25/06	12:30	51028	14	7500	557	625	0.07	4.17	16690.34	
10/31/06	15:45	51174	7	7600	569	620	0.04	2.07	16709.30	
11/06/06	11:40	51314	14	7400	555	619	0.07	4.13	16727.37	
11/13/06	9:05	51453	30	6700	556	560	0.16	7.99	16762.46	
11/22/06	9:30	51632	4	7600	524	673	0.02	1.28	16797.05	
11/28/06	12:30	51746	12	8200	578	659	0.06	3.76	16809.03	
12/05/06	14:30	51876	14	7800	549	660	0.07	4.40	16831.12	
12/12/06	15:15	52044	7	7500	563	619	0.04	2.06	16853.73	
12/18/06	15:00	52188	3	7300	568	597	0.02	0.85	16862.48	
12/29/06	10:30	52373	2	7600	562	628	0.01	0.60	16868.07	

Table 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
01/02/07	10:35	52398	5	7300	557	609	0.03	1.45	16869.14	
01/10/07	16:25	52511	6	7100	553	596	0.03	1.70	16876.55	
01/16/07	14:05	52613	5	6900	550	583	0.03	1.39	16883.12	
01/24/07	14:00	52761	8	7100	546	604	0.04	2.30	16894.49	
01/31/07	16:25	52811	3	7400	537	640	0.02	0.91	16897.84	
02/07/07	16:45	52866	11	7000	538	605	0.06	3.16	16902.51	
02/14/07	11:55	52985	8	7400	544	632	0.04	2.41	16916.32	
02/20/07	14:00	53121	13	8200	563	677	0.07	4.19	16935.00	
02/28/07	14:40	53298	15	8000	559	665	0.08	4.75	16967.94	
03/07/07	13:40	53374	11	7900	556	660	0.06	3.46	16980.93	
03/15/07	10:15	53476	21	7600	554	637	0.11	6.37	17001.81	
03/20/07	10:45	53535	16	7600	560	630	0.09	4.80	17015.53	
03/26/07	16:15	53654	18	7400	555	619	0.10	5.31	17040.59	
04/04/07	14:50	53866	13	7100	573	576	0.07	3.56	17079.75	
04/10/07	12:05	53979	21	7300	555	611	0.11	6.11	17102.51	
04/18/07	12:30	54097	10	7500	552	631	0.05	3.00	17124.91	
04/24/07	12:30	54241	16	7400	568	605	0.09	4.61	17147.75	
05/31/07	12:30	54354	15	7325	562	605	0.08	4.32	17168.68	Extrapolated Data

Notes:

$C = (PPM_{measured}) \times K \times (M_g/K_g) / 1000$

C: vapor concentration (mg/l)

$PPM_{measured}$: FID reading (PPM)

K: number of carbon atoms in calibration gas (1 in methane)

TH: total hydrocarbons calculated as gasoline (GRO)

$Q = (1-B) \times V \times A \times (P/P_{std}) \times (T_{std}/T)$

Q: vapor flowrate (SCFM)

B: percent water vapor in flowstream

V: vapor velocity (ft/min)

A: cross-sectional area (sq. ft)

P: absolute pressure of flowstream (" Hg)

P_{std}: standard pressure (29.92" Hg)

T: absolute temperature of flowstream (degrees Rankine)

T_{std}: standard temperature (528 degrees Rankine) at 68 degrees F (from Perry's handbook)

$M = Q \times C \times 0.0895$

M: hydrocarbon recovery rate (lb/day)

CM = [delta (blower meter hours)/24] * [(Mprevious + Mcurrent)/2] + CMprevious

Assumptions:

Mg = 128 mg/mg-mole

Kg = 24.07 dsm^3/10^6 gm -mole

B = 0.003 from Perry's Chemical Handbook

A = 0.0873 sq. ft

percent water vapor by volume	0.003
SVE Stack pipe diameter	4

* Estimated value due to malfunctioning instrument

Cumulative Mass of Hydrocarbons Recovered

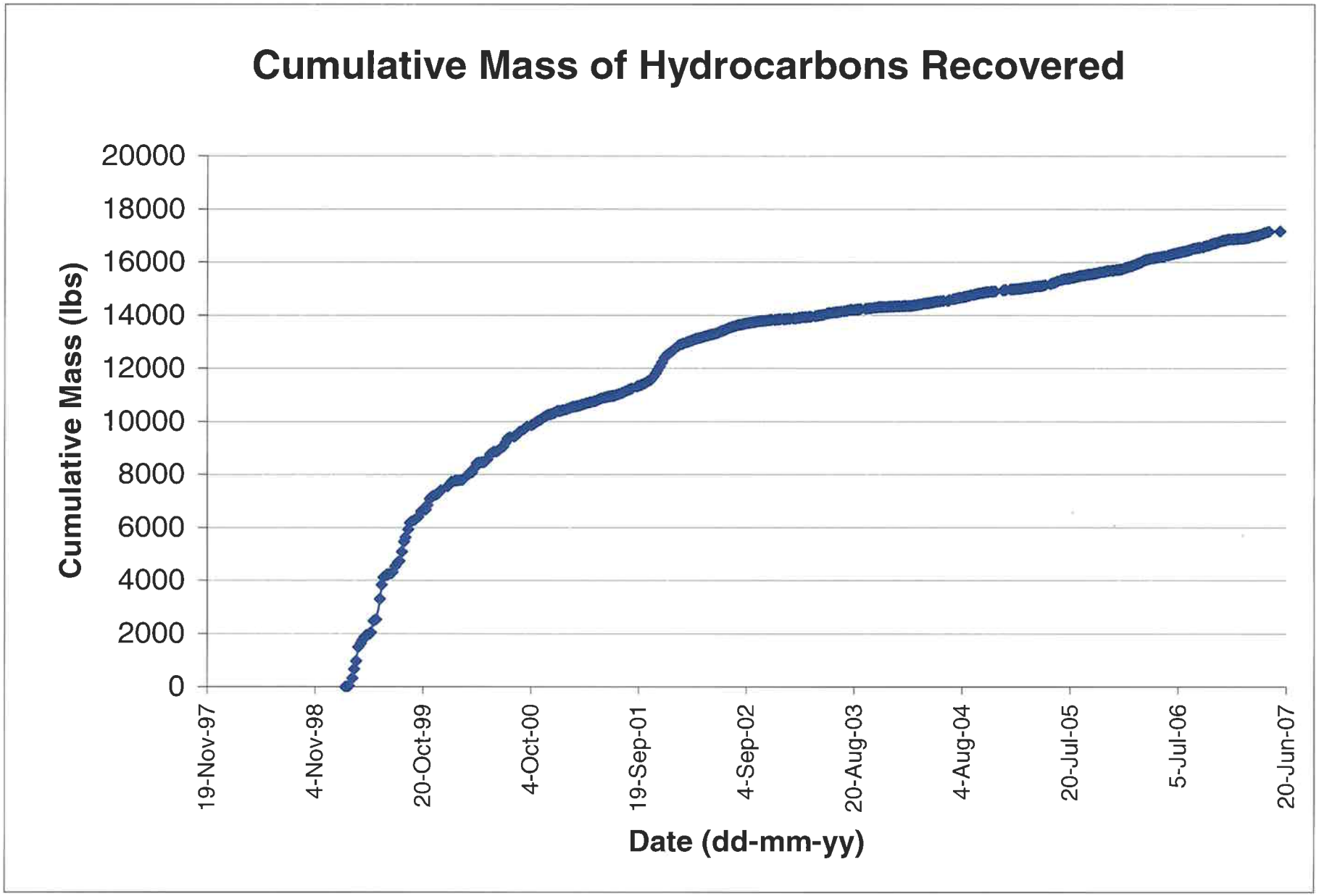


Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
09/01/05	10:45	19426	356	8000	586	1473	1.89	249.65	1,226,563.27	
09/08/05	10:30	19593	318	8000	579	1492	1.69	225.80	1,228,217.43	
09/16/05	14:05	19665	356	8200	589	1504	1.89	254.77	1,228,938.28	
09/22/05	10:30	19721	336	8600	586	1586	1.79	253.60	1,229,531.37	
09/30/05	12:30	19811	204	8100	579	1511	1.08	146.74	1,230,281.99	
10/06/05	18:15	19857	91	7900	568	1501	0.48	65.01	1,230,484.92	
10/13/05	16:25	19857	101	7800	565	1491	0.54	71.66	1,230,484.92	
10/21/05	9:00	19978	89	7900	562	1517	0.47	64.26	1,230,827.55	
10/29/05	10:45	19989	105	8100	550	1590	0.56	79.47	1,230,860.49	
11/05/05	13:10	20028	179	7900	575	1484	0.95	126.39	1,231,027.75	
11/10/05	12:50	20057	157	7700	572	1453	0.83	108.56	1,231,169.70	
11/17/05	14:00	20223	74	8100	549	1592	0.39	56.07	1,231,739.04	
11/23/05	11:05	20365	66	8100	544	1605	0.35	50.43	1,232,054.11	
12/02/05	13:15	20514	63	8300	547	1636	0.34	49.06	1,232,362.93	
12/07/05	11:50	20634	83	8600	551	1684	0.44	66.51	1,232,651.85	
12/16/05	12:30	20739	86	8600	554	1674	0.46	68.53	1,232,947.25	
12/23/05	13:25	20906	97	8800	552	1720	0.52	79.41	1,233,461.95	
12/29/05	15:30	21053	61	8800	559	1698	0.32	49.30	1,233,856.15	
01/06/06	12:45	21244	75	8500	550	1666	0.40	59.47	1,234,288.96	
01/13/06	15:30	21387	111	7900	566	1506	0.59	79.58	1,234,703.21	
01/17/06	10:35	21467	265	9600	554	1846	1.41	232.88	1,235,223.99	
01/24/06	16:45	21641	98	9600	556	1855	0.52	86.50	1,236,381.76	

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
02/02/06	10:00	21852	129	9500	552	1839	0.69	112.89	1,237,258.25	
02/08/06	14:20	21997	179	8800	551	1714	0.95	146.04	1,238,040.44	
02/17/06	10:30	22174	262	8800	562	1679	1.39	209.37	1,239,351.00	
02/24/06	9:40	22340	385	9100	558	1753	2.05	321.28	1,241,186.15	
03/01/06	11:10	22451	468	8800	570	1659	2.49	369.54	1,242,783.66	
03/08/06	11:00	22566	275	8500	555	1644	1.46	215.15	1,244,184.47	
03/14/06	13:20	22713	258	8400	566	1594	1.37	195.69	1,245,442.67	
03/21/06	10:15	22878	204	8800	549	1723	1.08	167.32	1,246,690.54	
03/28/06	12:40	22999	181	8500	553	1652	0.96	142.29	1,247,471.02	
04/05/06	16:35	23190	202	8100	568	1531	1.07	147.22	1,248,623.05	
04/14/06	11:00	23402	141	7800	574	1444	0.75	96.93	1,249,701.42	
04/18/06	8:30	23480	305	7900	568	1494	1.62	216.81	1,250,211.24	
04/28/06	11:10	23717	169	8200	569	1545	0.90	124.23	1,251,895.12	
05/02/06	10:30	23812	136	9000	561	1717	0.72	111.13	1,252,360.96	
05/10/06	11:15	23995	155	8400	569	1579	0.82	116.47	1,253,228.69	
05/15/06	10:00	24114	107	8500	570	1593	0.57	81.14	1,253,718.58	
05/22/06	14:00	24287	216	8300	572	1555	1.15	159.88	1,254,587.24	
06/02/06	14:10	24493	98	8400	549	1641	0.52	76.54	1,255,601.88	
06/06/06	8:15	24580	182	8800	559	1689	0.97	146.29	1,256,005.76	
06/12/06	13:00	24693	96	7900	573	1475	0.51	67.40	1,256,508.82	
06/20/06	11:05	24693	196	8500	579	1569	1.04	146.38	1,257,012.11	Hard calculate for hour meter
06/29/06	16:25	28	102	8900	580	1639	0.54	79.59	1,257,544.09	

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
07/08/06	7:45	169	195	8600	564	1630	1.04	151.27	1,258,087.57	
07/12/06	10:35	269	168	8900	590	1614	0.89	129.02	1,258,747.42	
07/19/06	17:40	402	289	9100	587	1657	1.54	227.93	1,259,587.74	
07/28/06	11:45	599	202	9500	588	1729	1.07	166.19	1,260,515.57	
08/04/06	13:15	767	129	9300	590	1687	0.69	103.55	1,261,150.59	
08/08/06	14:50	866	117	8200	595	1474	0.62	82.07	1,261,587.57	
08/15/06	14:00	1010	105	9200	587	1675	0.56	83.72	1,261,977.87	
08/22/06	12:30	1165	81	9000	588	1635	0.43	63.03	1,262,323.35	
08/29/06	9:30	1327	61	9300	582	1709	0.32	49.61	1,262,588.52	
09/06/06	15:00	1421	103	8900	574	1657	0.55	81.25	1,262,896.59	
09/14/06	15:55	1614	84	9200	575	1713	0.45	68.47	1,263,249.07	
09/23/06	13:10	1812	117	8900	581	1639	0.62	91.27	1,263,625.13	
09/26/06	16:15	1888	88	9100	573	1700	0.47	71.20	1,264,007.61	
10/06/06	10:30	2114	99	9600	587	1751	0.53	82.49	1,264,369.43	
10/11/06	15:45	2237	82	8800	572	1643	0.44	64.12	1,264,714.57	
10/18/06	16:30	2391	79	9600	578	1776	0.42	66.79	1,265,022.73	
10/25/06	13:30	2545	152	9500	562	1806	0.81	130.62	1,265,487.46	
10/31/06	16:20	2693	131	9100	565	1721	0.70	107.31	1,266,047.60	
11/06/06	12:50	2764	71	9900	570	1857	0.38	62.77	1,266,448.00	
11/13/06	9:35	2927	117	9500	559	1818	0.62	101.26	1,266,834.14	
11/24/06	11:00	3205	78	10500	566	1985	0.41	73.69	1,267,245.98	
11/28/06	13:05	3231	63	10100	575	1880	0.34	56.38	1,267,552.17	
12/05/06	16:10	3402	111	9900	559	1894	0.59	100.08	1,267,920.51	
12/12/06	16:15	3555	51	10300	567	1940	0.27	47.10	1,268,267.00	
12/18/06	14:00	3699	58	10100	576	1874	0.31	51.74	1,268,499.69	
12/29/06	10:40	3876	51	9900	559	1893	0.27	45.94	1,268,729.64	
01/02/07	11:30	3972	49	10700	559	2048	0.26	47.75	1,268,950.20	
01/10/07	9:55	4164	62	9900	551	1922	0.33	56.71	1,269,196.13	
01/16/07	15:25	4312	61	10200	564	1934	0.32	56.15	1,269,461.83	
01/24/07	15:10	4504	49	10600	550	2063	0.26	48.10	1,269,707.26	
01/31/07	15:45	4643	66	10200	540	2021	0.35	63.50	1,269,969.99	

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
02/07/07	10:35	4795	61	9800	551	1903	0.32	55.24	1,270,249.52	
02/14/07	12:40	4965	57	10200	548	1992	0.30	54.03	1,270,506.74	
02/20/07	14:35	5101	174	10500	566	1993	0.93	165.01	1,271,022.40	
02/28/07	15:20	5287	104	10200	562	1951	0.55	96.56	1,271,638.19	
03/07/07	8:00	5453	198	10200	550	1995	1.05	187.99	1,272,308.06	
03/16/07	10:35	5610	104	10400	574	1950	0.55	96.54	1,272,977.87	
03/20/07	11:35	5704	76	9900	578	1842	0.40	66.64	1,273,362.02	
03/26/07	16:05	5852	88	10200	579	1895	0.47	79.38	1,273,705.79	
04/05/07	8:10	6052	69	10200	565	1943	0.37	63.82	1,274,042.91	
04/10/07	13:10	6103	149	10400	569	1968	0.79	139.59	1,274,521.76	
04/18/07	14:15	6266	76	10400	572	1959	0.40	70.84	1,275,017.15	
04/24/07	14:25	6409	115	10400	580	1932	0.61	105.72	1,275,432.81	
05/31/07	14:25	6516	102	10350	572	1950	0.54	94.91	1,275,905.13	Extrapolated Data

Notes:

$C = (PPM_{measured}) \times K \times (M_g/K_g) / 1000$

C: vapor concentration (mg/l)

$PPM_{measured}$: FID reading (PPM)

K: number of carbon atoms in calibration gas (1 in methane)

TH: total hydrocarbons calculated as gasoline (GRO)

$Q = (1-B) \times V \times A \times (P/P_{std}) \times (T_{std}/T)$

Q: vapor flowrate (SCFM)

B: percent water vapor in flowstream

V: vapor velocity (ft/min)

A: cross-sectional area (sq. ft)

P: absolute pressure of flowstream (" Hg)

P_{std}: standard pressure (29.92" Hg)

T: absolute temperature of flowstream (degrees Rankine)

T_{std}: standard temperature (528 degrees Rankine) at 68 degrees F (from Perry's handbook)

$M = Q \times C \times 0.0895$

M: hydrocarbon recovery rate (lb/day)

CM = [delta (blower meter hours)/24] * [(Mprevious + Mcurrent)/2] + CMprevious

Assumptions:

Mg = 128 mg/mg-mole

Kg = 24.07 dsm^3/10^6 gm -mole

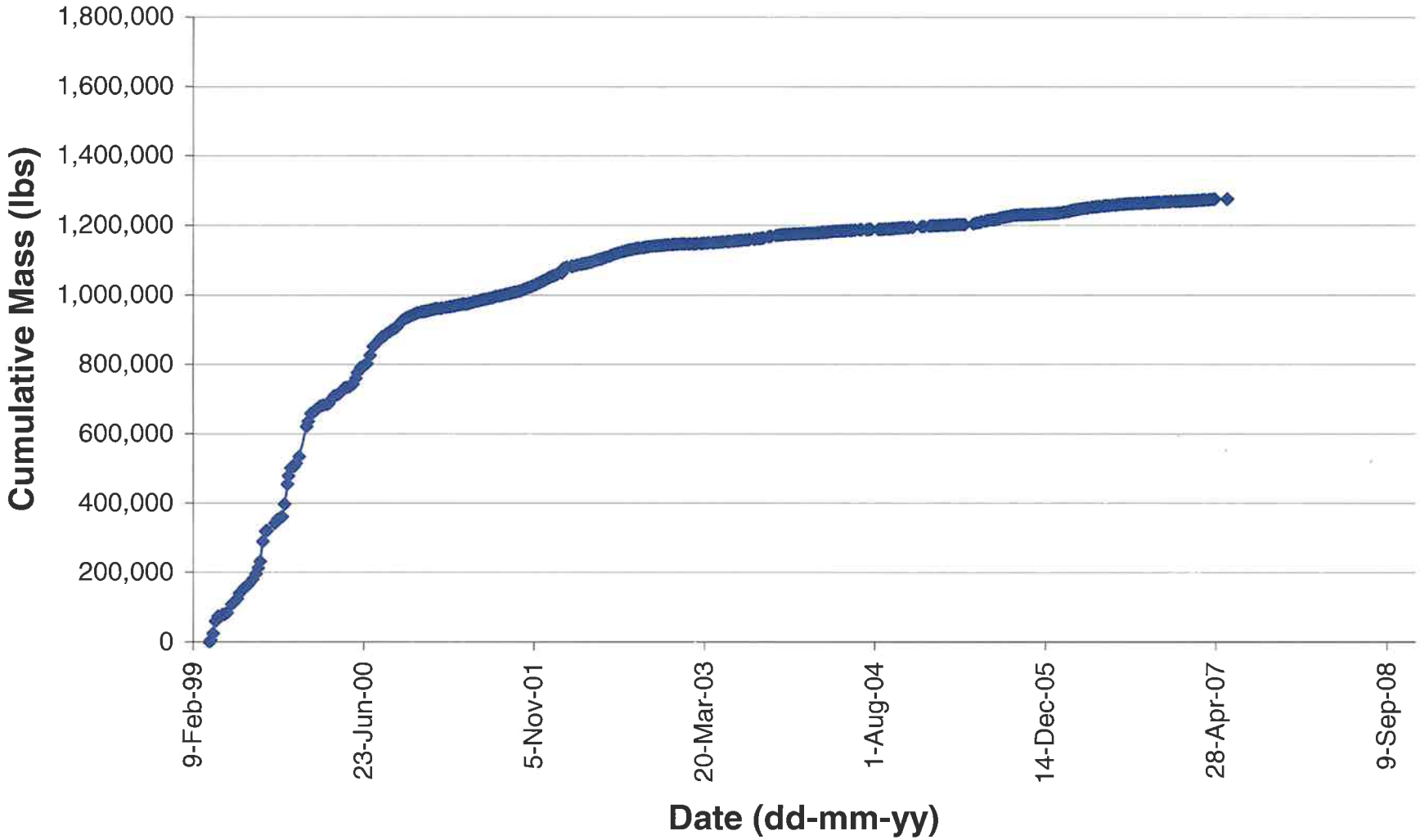
B = 0.003 from Perry's Chemical Handbook

A = 0.2005 sq. ft (6-INCH SCH-40 STACK)

percent water vapor by volume	0.003
SVE Stack pipe diameter	8

* Estimated value due to malfunctionng instrument

Cumulative Mass of Hydrocarbons Recovered



Updated: 6/4/2007

Table 4.1

Groundwater Elevation Table

Hadnot Point Fuel Farm - North West

Camp Lejeune, North Carolina

Well No.	Well Type (depth)	Top of Casing	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
UST1115-MW01	shallow	26.24	Aug-04	4.17	22.07	Mar-05	9.01	17.23	Aug-05	8.15	18.09	Jan-06	7.18	19.06	Oct-06	8.60	17.64
UST1115-MW02	shallow	25.74	Aug-04	8.80	16.94	Mar-05	8.66	17.08	Aug-05	8.51	17.23	Jan-06	7.42	18.32	Oct-06	8.23	17.51
UST1115-MW04	shallow	27.02	Aug-04	3.10	23.92	Mar-05	4.55	22.47	Aug-05	3.48	23.54	Jan-06	4.80	22.22	Oct-06	5.37	21.65
UST1115-MW05	shallow	26.07	Aug-04	4.17	21.90	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	5.98	20.09	Oct-06	6.43	19.64
UST1115-MW07	shallow	25.85	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	NM	NM	Oct-06	NM	NM
UST1115-MW09	shallow	27.99	Aug-04	7.10	20.89	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	10.27	17.72	Oct-06	5.43	22.56
UST1115-MW10	shallow	25.58	Aug-04	6.25	19.33	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	6.71	18.87	Oct-06	NM	NM
UST1115-MW11	shallow	27.64	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	7.32	20.32	Oct-06	8.55	19.09
UST1115-MW12	shallow	25.57	Aug-04	3.51	22.06	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	5.15	20.42	Oct-06	4.98	20.59
UST1115GT-MW01	shallow	26.32	Aug-04	3.29	23.03	Mar-05	4.24	22.08	Aug-05	9.12	17.20	Jan-06	3.92	22.40	Oct-06	4.18	22.14
UST1115GT-MW09	shallow	25.99	Aug-04	4.20	21.79	Mar-05	5.97	20.02	Aug-05	5.33	20.66	Jan-06	5.38	20.61	Oct-06	5.98	20.01
IR78-GW22-2	shallow	28.93	Aug-04	6.92	22.01	Mar-05	8.57	20.36	Aug-05	8.06	20.87	Jan-06	8.00	20.93	Oct-06	7.93	21.00
UST1115-MW13	intermediate	25.59	Aug-04	8.95	16.64	Mar-05	9.04	16.55	Aug-05	6.54	19.05	Jan-06	8.53	17.06	Oct-06	8.85	16.74
UST1115-MW14	intermediate	27.65	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	11.09	16.56	Jan-06	9.84	17.81	Oct-06	11.00	16.65
UST1115-MW15	intermediate	27.22	Aug-04	7.00	20.22	Mar-05	NM	NM	Aug-05	8.09	19.13	Jan-06	8.64	18.58	Oct-06	8.17	19.05
UST1115-MW17	intermediate	25.94	Aug-04	8.22	17.72	Mar-05	10.10	15.84	Aug-05	10.00	15.94	Jan-06	9.10	16.84	Oct-06	9.92	16.02
UST1115-MW18	intermediate	25.81	Aug-04	Surging	Surging	Mar-05	10.08	15.73	Aug-05	9.90	15.91	Jan-06	NM	NM	Oct-06	NM	NM
UST1115-MW21	intermediate	25.54	Aug-04	7.13	18.41	Mar-05	9.23	16.31	Aug-05	9.10	16.44	Jan-06	8.25	17.29	Oct-06	9.05	16.49
UST1115-MW22	deep	27.10	Aug-04	8.80	18.30	Mar-05	11.66	15.44	Aug-05	11.79	15.31	Jan-06	10.84	16.26	Oct-06	11.83	15.27
UST1115-MW23	deep	27.47	Aug-04	8.85	18.62	Mar-05	10.82	16.65	Aug-05	10.88	16.59	Jan-06	10.24	17.23	Oct-06	11.83	15.64
UST1115-MW24	deep	25.93	Aug-04	6.52	19.41	Mar-05	10.42	15.51	Aug-05	10.50	15.43	Jan-06	9.60	16.33	Oct-06	10.21	15.72
UST1115-MW25	deep	25.83	Aug-04	7.33	18.50	Mar-05	9.77	16.06	Aug-05	9.73	16.10	Jan-06	9.05	16.78	Oct-06	9.70	16.13
IR78-GW-19	deep	29.18	Aug-04	8.42	20.76	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	6.96	22.22	Oct-06	6.18	23.00

NM = Not Measured
)ove National Geodetic Vertical Datum (NGVD)

Table 4.2

Groundwater Elevation Table

Hadnot Point Fuel Farm - South East

Camp Lejeune, North Carolina

Well No.	Well Type (depth)	Top of Casing	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
USTHPFFC-MW01	shallow	27.97	Aug-04	7.60	20.37	Mar-05	5.33	22.64	Aug-05	4.29	23.68	Jan-06	4.80	23.17	Oct-06	4.53	23.44
USTHPFFC-MW03	shallow	30.83	Aug-04	8.39	22.44	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	9.69	21.14	Oct-06	10.06	20.77
USTHPFFC-MW05	shallow	26.94	NM	NM	NM	Mar-05	7.38	19.56	Aug-05	6.73	20.21	Jan-06	6.40	20.54	Oct-06	7.13	19.81
USTHPFFC-MW14	shallow	26.91	Aug-04	5.37	21.54	Mar-05	5.54	21.37	Aug-05	5.31	21.60	Jan-06	3.92	22.99	Oct-06	NM	NM
USTHPFFC-MW17	shallow	27.56	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	NM	NM	Oct-06	NM	NM
USTHPFFC-MW19	shallow	26.21	Aug-04	6.52	19.69	Mar-05	5.94	20.27	Aug-05	NM	NM	Jan-06	4.75	21.46	Oct-06	5.31	20.90
USTHPFFC-MW20	shallow	28.29	Aug-04	5.95	22.34	Mar-05	7.37	20.92	Aug-05	7.22	21.07	Jan-06	6.50	21.79	Oct-06	6.69	21.60
USTHPFFC-MW22	shallow	26.36	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	NM	NM	Oct-06	NM	NM
USTHPFFC-MW24	shallow	30.92	Aug-04	10.98	19.94	Mar-05	11.28	19.64	Aug-05	11.07	19.85	Jan-06	9.41	21.51	Oct-06	11.11	19.81
USTHPFFC-MW28	shallow	27.07	Aug-04	5.27	21.80	Mar-05	7.07	20.00	Aug-05	6.89	20.18	Jan-06	5.58	21.49	Oct-06	5.74	21.33
USTHPFFC-MW30	shallow	26.31	Aug-04	3.31	23.00	Mar-05	4.87	21.44	Aug-05	4.69	21.62	Jan-06	3.86	22.45	Oct-06	4.83	21.48
USTHPFFC-MW42	shallow	27.25	Aug-04	7.32	19.93	Mar-05	6.20	21.05	Aug-05	6.11	21.14	Jan-06	5.34	21.91	Oct-06	6.42	20.83
USTHPFF-MW01	shallow	29.87	Aug-04	5.13	24.74	Mar-05	9.33	20.54	Aug-05	9.19	20.68	Jan-06	8.43	21.44	Oct-06	8.95	20.92
USTHPFF-MW06	shallow	29.60	Aug-04	NM	NM	Mar-05	8.73	20.87	Aug-05	8.66	20.94	Jan-06	7.56	22.04	Oct-06	8.77	20.83
USTHPFF-MW10R	shallow	33.46	Aug-04	11.20	22.26	Mar-05	12.54	20.92	Aug-05	12.47	20.99	Jan-06	11.87	21.59	Oct-06	12.26	21.20
USTHPFF-MW11	shallow	28.30	NM	NM	NM	Mar-05	6.95	21.35	Aug-05	6.81	21.49	Jan-06	9.80	18.50	Oct-06	7.16	21.14
USTHPFF-MW17A	shallow	31.60	Aug-04	9.15	22.45	Mar-05	11.22	20.38	Aug-05	11.08	20.52	Jan-06	10.31	21.29	Oct-06	10.64	20.96
USTHPFF-MW18	shallow	31.45	Aug-04	9.92	21.53	Mar-05	11.24	20.21	Aug-05	11.20	20.25	Jan-06	10.68	20.77	Oct-06	10.92	20.53
USTHPFF-MW19	shallow	32.40	Aug-04	NM	NM	Mar-05	11.82	20.58	Aug-05	11.70	20.70	Jan-06	9.38	23.02	Oct-06	11.97	20.43
USTHPFFC-MW07	intermediate	27.88	Aug-04	7.82	20.06	Mar-05	9.65	18.23	Aug-05	9.69	18.19	Jan-06	8.80	19.08	Oct-06	9.78	18.10
USTHPFFC-MW08	intermediate	34.52	Aug-04	15.10	19.42	Mar-05	15.55	18.97	Aug-05	15.41	19.11	Jan-06	15.00	19.52	Oct-06	15.78	18.74
USTHPFFC-MW09	intermediate	26.74	Aug-04	7.80	18.94	Mar-05	8.82	17.92	Aug-05	8.62	18.12	Jan-06	8.00	18.74	Oct-06	8.48	18.26
IR-78GW32-2	deep	26.87	Aug-04	8.85	18.02	Mar-05	9.12	17.75	Aug-05	NM	NM	Jan-06	NM	NM	Oct-06	NM	NM
IR-78GW32-3	deep	27.20	Aug-04	7.26	19.94	Mar-05	8.54	19.26	Aug-05	NM	NM	Jan-06	NM	NM	Oct-06	NM	NM
USTHPFFC-MW10	deep	32.44	Aug-04	13.53	18.91	Mar-05	13.90	18.54	Aug-05	13.79	18.65	Jan-06	13.41	19.03	Oct-06	14.43	18.01
USTHPFFC-MW11	deep	32.06	Aug-04	13.41	18.65	Mar-05	13.88	18.18	Aug-05	NM	NM	Jan-06	13.50	18.56	Oct-06	NM	NM
USTHPFFC-MW12	deep	26.68	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM	Jan-06	8.24	18.44	Oct-06	5.26	21.42

NM = Not Measured

All elevations are in feet above National Geodetic Vertical Datum (NGVD)

* = First Measurement Depth to Product/Second Measurement Depth to Groundwater

CLJ - Hadnot Point - Bldg. 1115
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Table 4.3
Analytical Data Summary
NW Sampling Event **January 2006 Natural Atten**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		UST1115-MW18	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21	UST1115-MW04	UST1115-MW13	UST1115-MW25
Well Depth:		Intermediate	Deep	Shallow	Deep	Intermediate	Intermediate	Shallow	Intermediate	Deep
Date Sampled:		1/25/06	1/20/06	1/20/06	1/20/06	1/20/06	1/20/06	1/20/06	1/23/06	1/23/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters										
Depth to Water	feet	NA	9.60	7.42	10.84	9.10	8.25	4.80	8.53	9.05
pH	-	NA	6.85	4.94	6.92	5.68	5.13	5.30	4.47	7.12
Conductivity	mS/m	NA	1.324	0.130	0.524	4.323	0.138	0.165	3.439	0.577
Turbidity	NTU	NA	12.7	15.2	3.8	77.4	3.0	54.0	203.7	4.5
Dissolved Oxygen	mg/L	NA	1.10	15.60	6.00	8.30	3.60	11.40	3.87	3.68
Temperature	°C	NA	22.45	21.22	20.57	20.18	23.00	20.22	24.92	23.87
Oxidation-Reduction Potential	mV	NA	19.2	465.5	143.5	53.5	280.6	357.1	198.6	29.5
Laboratory Parameters										
Dissolved Methane (RSK-175)	ug/L	<0.5	**76.6**	**0.44 J**	**105**	**56.5**	**7.52**	**41.4**	**133**	**434**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**3.56**	<1.0	**30.3**	**1.5**	<1.0	<1.0	**4.6**	**61.4**
Dissolved Ethene (RSK-175)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**31.4**
Nitrate (9056)	mg/L	<0.1	<0.1	**0.22**	<0.1	<0.1	**0.12**	<0.1	<0.1	<0.10
Nitrate-Nitrite (Calculation)	mg/L	<0.2	<0.2	**0.22**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Nitrite (9056)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate (9056)	mg/L	**201**	**328**	**36**	**7.0**	**3280**	**26.9**	**31.2**	**2850**	<2.0
TOC (415.1)	mg/L	**9.1**	**7.0**	<1.0	**5.6**	**11.8**	<1.0	**1.3**	**19.5**	**9.2**
Bold type indicates detectable concentrations.										

J= estimated

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Table 4.3
Analytical Data Summary
NW Sampling Event **January 2006 Natural Atten**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		UST1115GT-MW09	UST1115-MW23	IR78-GW22-2	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07
Well Depth:		Shallow	Deep	Shallow	Shallow	Shallow	Shallow
Date Sampled:		1/23/06	1/23/06	1/23/06	1/23/06	1/23/06	1/25/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters							
Depth to Water	feet	5.38	10.24	8.00	3.92	7.18	8.96
pH	-	5.62	6.69	5.21	5.70	4.77	NA
Conductivity	mS/m	0.387	2.281	0.365	0.378	0.155	NA
Turbidity	NTU	7.2	4.8	120.4	397.4	46.6	NA
Dissolved Oxygen	mg/L	13.00	1.61	5.21	4.22	3.54	NA
Temperature	°C	19.37	20.64	18.24	21.39	22.03	NA
Oxidation-Reduction Potential	mV	110.7	85.1	237.6	306.9	470.6	NA
Laboratory Parameters							
Dissolved Methane (RSK-175)	ug/L	**88.9**	**212**	**200**	**139**	<0.50	**9.04**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**19.1**	<1.0	**1.4**	<1.0	<1.0
Dissolved Ethene (RSK-175)	ug/L	<1.0	**10.8**	<1.0	<1.0	<1.0	<1.0
Nitrate (9056)	mg/L	<0.1	<0.1	<0.1	**0.37**	**3.3**	<0.1
Nitrate-Nitrite (Calculation)	mg/L	<0.2	<0.2	<0.2	**0.37**	**3.3**	<0.2
Nitrite (9056)	mg/L	**0.1**	**0.1**	<0.1	<0.1	<0.1	<0.1
Sulfate (9056)	mg/L	**95.8**	**852**	**105**	**60.4**	**26.1**	**41.9**
TOC (415.1)	mg/L	**2.4**	**36.6**	**3.3**	**1.4**	<1.0	**3.4**
Bold type indicates detectable concentrations							

J= estimated

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Table 4.4
Analytical Data Summary
NW Sampling Event **January 2006 Organics**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		UST1115-MW23	UST1115-MW18	IR78-GW22-2	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21
Well Depth:		Deep	Intermediate	Shallow	Deep	Shallow	Deep	Intermediate	Intermediate
Laboratory Sample ID:		F38020-1	F38104-2	F38020-2	F37989-1	F37989-3	F37989-4	F37989-5	F37989-2
Date Sampled:		01/23/06	01/25/06	01/23/06	01/20/06	01/20/06	01/20/06	01/20/06	01/20/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**7230**	<1.0	**95.4**	**1750**	**14.9**	**1830**	**39.3**	**175**
Ethylbenzene	550	**124**	<1.0	**3.7**	<1.0	<1.0	**6.0**	**0.86 J**	<1.0
Toluene	1000	**441**	<1.0	**17.3**	**0.69 J**	<1.0	**16.4**	**1.1**	<1.0
Xylenes (total)	530	**318**	<3.0	**10.7**	<3.0	<3.0	**14.4**	<3.0	<3.0
Total BTEX		**8113**		**127.1**	**1750.69**	**14.9**	**1866.8**	**41.26**	**175**
PAH EPA 610									
Naphthalene	21	**2.8**	<2.0	<1.9	<1.9	<1.9	**2.9**	**3.1**	**2.1**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated

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Samples analyzed by Accutest

Table 4.4
Analytical Data Summary
NW Sampling Event **January 2006 Organics**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		UST1115-MW04	UST1115-MW13	UST1115-MW25	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07	UST1115GT-MW09
Well Depth:		Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow
Laboratory Sample ID:		F37989-6	F38020-8	F38020-5	F38020-6	F38020-4	F38104-1	F38020-3
Date Sampled:		01/20/06	01/23/06	01/23/06	01/23/06	01/23/06	01/25/06	01/23/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**9.0**	**263**	**5000**	**1100**	<1.0	**421**	**154**
Ethylbenzene	550	<1.0	**32**	**61.7 J**	**110**	<1.0	**1.3**	**4.7**
Toluene	1000	<1.0	**13.5**	**225**	**19**	<1.0	**2.6**	**22.3**
Xylenes (total)	530	<3.0	**23.5**	**256 J**	**86.3**	<3.0	<3.0	**13.5**
Total BTEX		**9.0**	**332**	**5542.7**	**1315.3**		**424.9**	**194.5**
PAH EPA 610								
Naphthalene	21	<1.9	**58.7**	<1.9	**3.2**	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated

Printed: 3/5/2007
Samples analyzed by Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Table 4.5
Analytical Data Summary
NW Sampling Event **October 2006 Natural Atten**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		UST1115-MW18	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21	UST1115-MW04	UST1115-MW13	UST1115-MW25
Well Depth:		Intermediate	Deep	Shallow	Deep	Intermediate	Intermediate	Shallow	Intermediate	Deep
Date Sampled:		Not Sampled	10/2/06	10/2/06	10/2/06	10/2/06	10/2/06	10/2/06	10/3/06	10/3/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters										
Depth to Water	feet	NS	10.21	8.23	11.83	9.92	9.05	5.37	8.85	9.70
pH	-	NS	6.73	4.88	7.16	5.41	4.69	4.55	3.86	7.04
Conductivity	mS/m	NS	1.233	0.130	0.491	3.833	0.120	0.134	3.996	0.560
Turbidity	NTU	NS	147.6	12.0	0.0	54.3	47.9	1.6	289.9	0.0
Dissolved Oxygen	mg/L	NS	0.11	0.27	0.21	0.13	0.07	0.43	0.79	0.47
Temperature	°C	NS	22.99	25.59	21.23	19.91	23.14	24.16	24.95	24.06
Oxidation-Reduction Potential	mV	NS	-202.4	174.2	NS	-11.8	2.4	247.3	355.9	-144.2
Laboratory Parameters										
Dissolved Methane (RSK-175)	ug/L	NS	**82**	**2.03**	**103**	**46.3**	**7.51**	**64.8**	**67**	**306**
Dissolved Ethane (RSK-175)	ug/L	NS	**3.6**	<1.0	**31.7**	**1.3**	<1.0	<1.0	**3.63**	**45.9**
Dissolved Ethene (RSK-175)	ug/L	NS	<1.0	<1.0	**9.21**	<1.0	<1.0	<1.0	<1.0	**17.4**
Nitrate (9056)	mg/L	NS	<0.10	**0.32**	<0.10	<0.10	**0.10**	<0.10	<0.10	<0.10
Nitrate-Nitrite (Calculation)	mg/L	NS	<0.20	**0.32**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nitrite (9056)	mg/L	NS	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate (9056)	mg/L	NS	**389**	**38.9**	**6.4**	**3190**	**37.1**	**39**	**2980**	**6.2**
TOC (415.1)	mg/L	NS	**6.3**	**1.0**	**6.9**	**12.5**	<1.0	**1.4**	**20.7**	**9.8**
		Bold type indicates detectable concentrations.								

J= estimated
NS = not sampled

Printed: 3/5/2007

Table 4.5
Analytical Data Summary
NW Sampling Event **October 2006 Natural Atten**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		UST1115GT-MW09	UST1115-MW23	IR78-GW22-2	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07
Well Depth:		Shallow	Deep	Shallow	Shallow	Shallow	Shallow
Date Sampled:		10/2/06	10/2/06	10/2/06	10/3/06	10/3/06	10/9/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters							
Depth to Water	feet	9.98	11.83	7.93	4.18	8.60	NS
pH	-	5.45	6.66	5.17	NS	5.17	NS
Conductivity	mS/m	0.300	2.093	0.308	NS	0.183	NS
Turbidity	NTU	26.0	59.3	25.4	NS	1157.4	NS
Dissolved Oxygen	mg/L	0.60	0.15	2.65	NS	1.39	NS
Temperature	°C	21.81	21.12	21.41	NS	21.49	NS
Oxidation-Reduction Potential	mV	-9.0	135.6	-15.9	NS	439.8	NS
Laboratory Parameters							
Dissolved Methane (RSK-175)	ug/L	**27.4**	**46.7**	**57.8**	**44.9**	**0.89**	**3.51**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**1.5**	<1.0	**0.61 J**	<1.0	<1.0
Dissolved Ethene (RSK-175)	ug/L	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0
Nitrate (9056)	mg/L	<0.10	<0.10	<0.10	**0.18**	**3.5**	**0.65**
Nitrate-Nitrite (Calculation)	mg/L	<0.20	<0.20	<0.20	<0.20	**3.5**	**0.65**
Nitrite (9056)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate (9056)	mg/L	**96.5**	**980**	**119**	**62.3**	**43.1**	**124**
TOC (415.1)	mg/L	**2.6**	**29.9**	**3.5**	**1.7**	<1.0	**2.8**
		Bold type indicates detectable concentrations.					

J= estimated
NS = not sampled

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Table 4.6
Analytical Data Summary
NW Sampling Event **October 2006 Organics**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		UST1115-MW23	UST1115-MW18	IR78-GW22-2	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21
Well Depth:		Deep	Intermediate	Shallow	Deep	Shallow	Deep	Intermediate	Intermediate
Laboratory Sample ID:		F44150-7	Not Sampled	F44150-8	F44150-3	F44150-1	F44150-6	F44150-5	F44150-2
Date Sampled:		10/02/06		10/02/06	10/02/06	10/02/06	10/02/06	10/02/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**1910**	NS	**98.3**	**2250**	**28.3**	**3880**	**168**	**197**
Ethylbenzene	550	**49.6**	NS	**6.3**	<50	<1.0	<20	**4.2**	<2.0
Toluene	1000	**198**	NS	**18.1**	<50	<1.0	**35.7**	**2.4**	**1.1 J**
Xylenes (total)	530	**96.4**	NS	**12.9**	<150	<3.0	**32.6 J**	**4.0**	<6.0
Total BTEX		**2254**	NS	**135.6**	**2250**	**28.3**	**3948.3**	**178.6**	**198.1**
PAH EPA 610									
Naphthalene	21	**1.0 J**	NS	<1.9	<1.9	<1.9	**3.1**	**2.4**	**1.8 J**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
NS = not sampled (MW-18 under pressure; unable to open well cap without overflow)

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Table 4.6
Analytical Data Summary
NW Sampling Event **October 2006 Organics**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		UST1115-MW04	UST1115-MW13	UST1115-MW25	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07	UST1115GT-MW09
Well Depth:		Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow
Laboratory Sample ID:		F44150-4	F44204-2	F44204-1	F44204-3	F44204-4	F44334-1	F44150-9
Date Sampled:		10/02/06	10/03/06	10/03/06	10/03/06	10/03/06	10/09/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**56.6**	**278**	**5160**	**2720**	**163**	**220**	**9.7**
Ethylbenzene	550	<1.0	**26.6**	**54.6 J**	**478**	**30.3**	**2.1**	**1.2**
Toluene	1000	**1.1**	**25.7**	**285**	**480**	**43.1**	<1.0	**2.2**
Xylenes (total)	530	<3.0	**32**	**174 J**	**189**	**18.8**	<3.0	**1.8 J**
Total BTEX		**57.7**	**362.3**	**5673.6**	**3867**	**255.2**	**222.1**	**14.9**
PAH EPA 610								
Naphthalene	21	<1.9	**68.1**	<1.9	**3.7**	**1.1 J**	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
NS = not sampled (MW-18 under pressure; unable to open well cap without overflow)

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Table 4.7 Analytical Data Summary

SE Sampling Event **January 2006 Field Parameters**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		USTHPFF-MW11	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate
Date Sampled:		1/26/06	1/24/06	1/24/06	1/23/06	1/24/06	1/23/06	1/24/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters								
Depth to Water	feet	5.30	4.75	6.50	8.43	11.87	10.68	8.80
pH	-	NA	6.36	6.22	5.66	6.66	5.62	6.69
Conductivity	mS/m	NA	0.621	0.312	0.140	1.110	0.200	0.962
Turbidity	NTU	NA	4.4	16.2	0.0	7.0	0.0	5.8
Dissolved Oxygen	mg/L	NA	0.47	5.43	1.64	19.01	5.29	2.64
Temperature	°C	NA	18.71	17.32	17.95	19.17	20.78	19.50
Oxidation-Reduction Potential	mV	NA	166.3	302.9	-85.2	5.3	-90.0	48.4
Laboratory Parameters								
Dissolved Methane (RSK-175)	ug/L	**0.49 J**	**27.5**	**2130**	**600**	**1900**	**57.9**	**58.3**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**23.2**	**2.06**	**3.45**	**9.58**	**12.9**	<1.0
Dissolved Ethene (RSK-175)	ug/L	<1.0	**2.9**	**7.88**	<1.0	**0.99**	**8.81**	<1.0
Nitrate (9056)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate-Nitrite (Calculation)	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrite (9056)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate (9056)	mg/L	**161**	**197**	**10.8**	**8.9**	**7.2**	**27**	**70.2**
TOC (415.1)	mg/L	**7.7**	**184**	**14.2**	**12.1**	**74**	**56.2**	**2.5**

J= estimated

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Table 4.7 Analytical Data Summary

SE Sampling Event **January 2006 Field Parameters**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		USTHPFFC-MW01	USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW11
Well Depth:		Shallow	Shallow	Intermediate	Shallow	Intermediate	Deep
Date Sampled:		1/24/06	1/24/06	1/24/06	1/24/06	1/24/06	1/24/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters							
Depth to Water	feet	4.80	10.31	15.00	6.40	8.00	13.50
pH	-	4.90	6.21	6.51	5.86	6.47	6.60
Conductivity	mS/m	0.181	0.339	0.543	0.283	2.568	0.136
Turbidity	NTU	0.9	6.3	1.7	24.5	182.7	3.1
Dissolved Oxygen	mg/L	34.33	1.96	1.15	3.57	3.36	2.12
Temperature	°C	17.23	19.32	20.48	20.71	22.38	21.05
Oxidation-Reduction Potential	mV	413.0	26.8	55.6	170.6	41.7	13.0
Laboratory Parameters							
Dissolved Methane (RSK-175)	ug/L	**12.6**	**253**	**141**	**157**	**6.47**	**247**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**13.7**	**25.1**	<1.0	<1.0	**0.65 J**
Dissolved Ethene (RSK-175)	ug/L	<1.0	**8.19**	**22.1**	<1.0	<1.0	<1.0
Nitrate (9056)	mg/L	**0.64**	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate-Nitrite (Calculation)	mg/L	**0.64**	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrite (9056)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate (9056)	mg/L	**62.5**	**7.6**	**8.6**	**48.7**	**1260**	**9.2**
TOC (415.1)	mg/L	**2.3**	**57.3**	**86.3**	**4.7**	**14.8**	**4.7**

J= estimated

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Table 4.8
Analytical Data Summary
SE Sampling Event **January 2006 Organics**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		USTHPFF-MW11	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate
Laboratory Sample ID:		F38105-1	F38054-4	F38054-3	F38019-2	F38054-8	F38019-1	F38054-9
Date Sampled:		1/25/06	1/24/06	1/24/06	1/23/06	1/24/06	1/23/06	1/24/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**53.6**	**12100**	**4050**	**2860**	**1770**	**12400**	<1.0
Ethylbenzene	550	**2.2**	**711**	**698**	**2850**	**631**	**1220**	<1.0
Toluene	1000	**32.6**	**9910**	**10600**	**20300**	**2190**	**26100**	<1.0
Xylenes (total)	530	**288**	**3920**	**3180**	**13100**	**2940**	**8650**	<3.0
Total BTEX		**376.4**	**26641**	**18528**	**39110**	**7531**	**48370**	
PAH EPA 610								
Naphthalene	21	<2.1	**155**	**143**	**404**	**99.6**	**473**	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated

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Table 4.8
Analytical Data Summary
SE Sampling Event **January 2006 Organics**

Sampling Event:		2006-A	2006-A	2006-A	2006-A	2006-A	2006-A
Well ID:		USTHPFFC-MW01	USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW11
Well Depth:		Shallow	Shallow	Intermediate	Shallow	Intermediate	Deep
Laboratory Sample ID:		F38054-10	F38054-5	F38054-7	F38054-2	F38054-1	F38054-6
Date Sampled:		1/24/06	1/24/06	1/24/06	1/24/06	1/24/06	1/24/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	<1.0	**5630**	**7480**	<1.0	<1.0	**96.7**
Ethylbenzene	550	<1.0	**2260**	**331**	<1.0	<2.0	**33.5**
Toluene	1000	<1.0	**22800**	**327**	<1.0	<1.0	**471**
Xylenes (total)	530	<3.0	**9200**	**617**	<3.0	<3.0	**133**
Total BTEX			**39890**	**8755**			**734.2**
PAH EPA 610							
Naphthalene	21	<2.0	**302**	**87.7**	<1.9	<1.9	**3.9**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated

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Table 4.9 Analytical Data Summary

SE Sampling Event **October 2006 Field Parameter**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		USTHPFF-MW11	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate
Date Sampled:		10/9/06	10/6/06	10/4/06	10/6/06	10/4/06	10/6/06	10/4/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters								
Depth to Water	feet	7.16	5.31	6.69	4.53	12.26	10.92	9.78
pH	-	NS	5.38	6.79	4.78	6.79	NS	6.29
Conductivity	mS/m	NS	0.629	0.829	0.221	1.138	NS	0.822
Turbidity	NTU	NS	179.0	0.0	3.9	39.4	NS	0.0
Dissolved Oxygen	mg/L	NS	1.22	0.29	1.28	7.49	NS	0.16
Temperature	°C	NS	17.68	NS	17.19	23.08	NS	20.47
Oxidation-Reduction Potential	mV	NS	-101.4	-110.3	190.4	239.8	NS	326.0
Laboratory Parameters								
Dissolved Methane (RSK-175)	ug/L	<0.5	**5.11**	**2130**	**397**	**29200**	**20.6**	**46.9**
Dissolved Ethane (RSK-175)	ug/L	<1.0	<1.0	<5.0	<1.0	**6.88**	**10.3**	<1.0
Dissolved Ethene (RSK-175)	ug/L	<1.0	<1.0	<5.0	<1.0	**1.0**	**11.3**	<1.0
Nitrate (9056)	mg/L	<0.10	NS	**1.0**	<0.10	<0.10	<0.10	<0.10
Nitrate-Nitrite (Calculation)	mg/L	<0.20	NS	**1.0**	<0.20	<0.20	<0.20	<0.20
Nitrite (9056)	mg/L	<0.10	NS	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate (9056)	mg/L	**203**	NS	**17.6**	**8.2**	**6.1**	**49.6**	**75.6**
TOC (415.1)	mg/L	**6.8**	NS	**6.0**	**10**	**62.1**	**67.3**	**1.9**
		Bold type indicates detectable concentrations.						

NS = not sampled
J= estimated
HPFFC-MW19 had limited sample volume due to well purging dry

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Table 4.9 Analytical Data Summary

SE Sampling Event **October 2006 Field Parameter**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		USTHPFFC-MW01	USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW11
Well Depth:		Shallow	Shallow	Intermediate	Shallow	Intermediate	Deep
Date Sampled:		10/4/06	10/6/06	10/6/06	10/6/06	10/6/06	12/1/06
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters							
Depth to Water	feet	8.93	10.69	15.78	7.13	8.48	13.29
pH	-	4.37	6.17	6.57	5.39	6.21	6.98
Conductivity	mS/m	0.194	0.327	0.608	0.260	1.171	0.546
Turbidity	NTU	37.6	76.3	27.1	120.8	108.3	0.0
Dissolved Oxygen	mg/L	1.40	0.50	0.41	0.71	1.27	4.38
Temperature	°C	17.36	17.90	18.79	20.37	NS	20.45
Oxidation-Reduction Potential	mV	166.4	-30.1	-147.6	202.4	-81.4	363.4
Laboratory Parameters							
Dissolved Methane (RSK-175)	ug/L	**15.2**	**153**	**139**	**105**	**2.98**	**644**
Dissolved Ethane (RSK-175)	ug/L	<1.0	**11.5**	**22.1**	<1.0	<1.0	<1.0
Dissolved Ethene (RSK-175)	ug/L	<1.0	**6.66**	**13**	<1.0	<1.0	<1.0
Nitrate (9056)	mg/L	<0.10	<0.10	<0.10	**0.19**	<0.10	<0.10
Nitrate-Nitrite (Calculation)	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nitrite (9056)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate (9056)	mg/L	**71.6**	**6.9**	**7.8**	**54.6**	**1300**	**12.7**
TOC (415.1)	mg/L	**3.6**	**58**	**80.8**	**3.7**	**11.4**	**5.8**
		Bold type indicates detectable concentrations.					

NS = not sampled
J= estimated
HPFFC-MW19 had limited sample volume due to well purging dry

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Table 4.10
Analytical Data Summary
SE Sampling Event **October 2006 Organics**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		USTHPFF-MW11	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate
Laboratory Sample ID:		F44334-2	F44300-7	F44244-3	F44300-2	F44244-4	F44300-3	F44244-2
Date Sampled:		10/9/06	10/6/06	10/4/06	10/6/06	10/4/06	10/6/06	10/4/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**3.7**	**1110**	**453**	**2790**	**1280**	**10300**	**4.7**
Ethylbenzene	550	<1.0	**92.8**	**265**	**1980**	**650**	**1090**	**2.1**
Toluene	1000	**0.95 J**	**975**	**130**	**15000**	**1990**	**20400**	**1.8**
Xylenes (total)	530	**36**	**615**	**712**	**9330**	**2900**	**6840**	**1.2 J**
Total BTEX		**40.65**	**2792.8**	**1560**	**29100**	**6820**	**38630**	**9.8**
PAH EPA 610								
Naphthalene	21	<1.9	NS	**53.8**	**364**	**132**	**465**	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

NS = not sampled
J= estimated
HPFFC-MW19 had limited sample volume due to well purging dry

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Table 4.10
Analytical Data Summary
SE Sampling Event **October 2006 Organics**

Sampling Event:		2006-B	2006-B	2006-B	2006-B	2006-B	2006-B
Well ID:		USTHPFFC-MW01	USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW11
Well Depth:		Shallow	Shallow	Intermediate	Shallow	Intermediate	Deep
Laboratory Sample ID:		F44244-1	F44300-1	F44300-4	F44300-6	F44300-5	F45611-1
Date Sampled:		10/4/06	10/6/06	10/6/06	10/6/06	10/6/06	12/1/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**26.3**	**4480**	**4940**	**156**	**323**	**41.2**
Ethylbenzene	550	**4.8**	**2240**	**303**	**50.4**	**101**	<1.0
Toluene	1000	**6.6**	**16400**	**765**	**485**	**849**	<1.0
Xylenes (total)	530	**4.0**	**8280**	**695**	**217**	**416**	<3.0
Total BTEX		**41.7**	**31400**	**6703**	**908.4**	**1689**	**41.2**
PAH EPA 610							
Naphthalene	21	<1.9	**372**	**95.7**	**10.0**	**17.4**	<1.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

NS = not sampled
J= estimated
HPFFC-MW19 had limited sample volume due to well purging dry

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Table 6.1
Hadnot Point Fuel Farm, Northwest Compound
Groundwater Sample Collection and Analysis Table for 2007

Analysis	Type II Shallow Monitoring Wells							
	UST1115GT-MW01	UST1115GT-MW07	UST1115GT-MW09	UST1115-MW01	UST1115-MW02	UST1115-MW04	UST1115-MW07	UST1115-MW09
Field Screening								
Temperature	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X
VOAs Method 8260	X	X	X	X	X	X	X	X

Analysis	Type II Shallow Monitoring Wells							
	USTHPFF-MW12	USTHPFF-MW20	USTHPFFC-MW36	USTHPFFC-MW39	USTHPFFC-MW48	USTHPFFC-MW51	USTHPFFC-MW54	
Field Screening								
Temperature	X	X	X	X	X	X	X	
Conductivity	X	X	X	X	X	X	X	
Turbidity	X	X	X	X	X	X	X	
pH	X	X	X	X	X	X	X	
Dissolved Oxygen	X	X	X	X	X	X	X	
ORP	X	X	X	X	X	X	X	
VOAs Method 8260	X	X	X	X	X	X	X	

Analysis	Type III Intermediate Monitoring Wells							
	UST1115-MW13	UST1115-MW14	UST1115-MW15	UST1115-MW17	UST1115-MW18	UST1115-MW20	UST1115-MW21	USTHPFFC-MW44
Field Screening								
Temperature	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X
VOAs Method 8260	X	X	X	X	X	X	X	X

Table 6.1
Hadnot Point Fuel Farm, Northwest Compound
Groundwater Sample Collection and Analysis Table for 2007

Analysis	Type III Intermediate Monitoring Wells							
	USTHPFFC-MW47	USTHPFFC-MW50	USTHPFFC-MW53	USTHPFFC-MW73	USTHPFFC-MW76			
Field Screening								
Temperature	X	X	X	X	X			
Conductivity	X	X	X	X	X			
Turbidity	X	X	X	X	X			
pH	X	X	X	X	X			
Dissolved Oxygen	X	X	X	X	X			
ORP	X	X	X	X	X			
VOAs Method 8260	X	X	X	X	X			

Analysis	Type III Deep Monitoring Wells							
	UST1115-MW22	UST1115-MW23	UST1115-MW24	UST1115-MW25	USTHPFFC-MW13	USTHPFFC-MW43		
Field Screening								
Temperature	X	X	X	X	X	X		
Conductivity	X	X	X	X	X	X		
Turbidity	X	X	X	X	X	X		
pH	X	X	X	X	X	X		
Dissolved Oxygen	X	X	X	X	X	X		
ORP	X	X	X	X	X	X		
VOAs Method 8260	X	X	X	X	X	X		

Analysis	Type III Deep Monitoring Wells							
	USTHPFFC-MW55	USTHPFFC-MW56	USTHPFFC-MW74					
Field Screening								
Temperature	X	X	X					
Conductivity	X	X	X					
Turbidity	X	X	X					
pH	X	X	X					
Dissolved Oxygen	X	X	X					
ORP	X	X	X					
VOAs Method 8260	X	X	X					

Table 6.2
Hadnot Point Fuel Farm, Southeast Compound
Groundwater Sample Collection and Analysis Table for 2007

Analysis	Type II Shallow Monitoring Wells								
	USTHPFF-MW01	USTHPFF-MW06	USTHPFF-MW09	USTHPFF-MW10R	USTHPFF-MW11	USTHPFF-MW15	USTHPFF-MW17A	USTHPFF-MW18	USTHPFF-MW19
Field Screening									
Temperature	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X
VOAs Method 8260	X	X	X	X	X	X	X	X	X

Analysis	Type II Shallow Monitoring Wells								
	USTHPFFC-MW01	USTHPFFC-MW02	USTHPFFC-MW03	USTHPFFC-MW05	USTHPFFC-MW12	USTHPFFC-MW15	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFFC-MW31
Field Screening									
Temperature	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X
VOAs Method 8260	X	X	X	X	X	X	X	X	X

Analysis	Type II Shallow Monitoring Wells								
	USTHPFFC-MW38	USTHPFFC-MW72	UST1101-MW01						
Field Screening									
Temperature	X	X	X						
Conductivity	X	X	X						
Turbidity	X	X	X						
pH	X	X	X						
Dissolved Oxygen	X	X	X						
ORP	X	X	X						
VOAs Method 8260	X	X	X						

Table 6.2
Hadnot Point Fuel Farm, Southeast Compound
Groundwater Sample Collection and Analysis Table for 2007

Analysis	Type III Intermediate Wells								
	USTHPFFC-MW06	USTHPFFC-MW07	USTHPFFC-MW08	USTHPFFC-MW09	USTHPFFC-MW61	USTHPFFC-MW63	USTHPFFC-MW66	USTHPFFC-MW70	USTHPFFC-MW77
Field Screening									
Temperature	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X
VOAs Method 8260	X	X	X	X	X	X	X	X	X

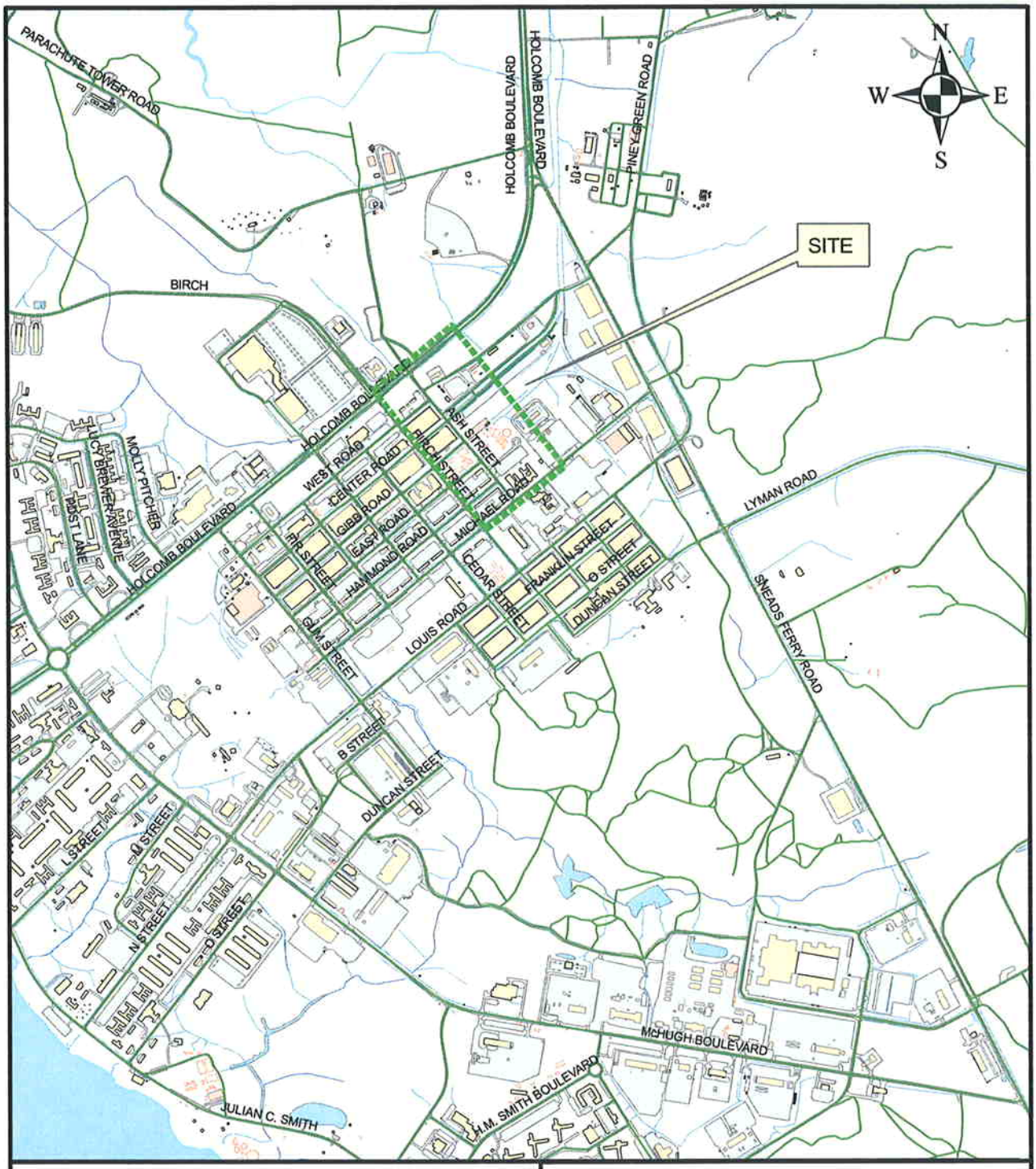
Analysis	Type III Deep Wells								
	USTHPFFC-MW10	USTHPFFC-MW11	USTHPFFC-MW59	USTHPFFC-MW60	USTHPFFC-MW71	IR78GW17-02	IR78GW31-02		
Field Screening									
Temperature	X	X	X	X	X	X	X		
Conductivity	X	X	X	X	X	X	X		
Turbidity	X	X	X	X	X	X	X		
pH	X	X	X	X	X	X	X		
Dissolved Oxygen	X	X	X	X	X	X	X		
ORP	X	X	X	X	X	X	X		
VOAs Method 8260	X	X	X	X	X	X	X		

FIGURES



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FIGURE 1.1
VICINITY MAP
HADNOT POINT FUEL FARM
CAMP LEUJEUNE, NC



0 625 1,250 2,500 3,750 5,000 Feet

Shaw™ Shaw Environmental, Inc.

FIGURE 1.2
SITE LOCATION MAP
HADNOT POINT FUEL FARM
CAMP LEJEUNE, NORTH CAROLINA

ESTIMATED PLUME BOUNDARY AT 50 FEET BLS

ESTIMATED PLUME BOUNDARY AT GREATER THAN 100 FEET BLS

ESTIMATED PLUME BOUNDARY AT 70 TO 90 FEET BLS

ESTIMATED PLUME BOUNDARY AT SHALLOW ZONE

RADIUS AT SURFACE

RADIUS AT 50 FEET BLS

BP-1 BP-2 BP-3 BP-4 BP-5 BP-6 BP-7 BP-8 BP-9 BP-10 BP-11 BP-12 BP-13 BP-14 BP-15 BP-16 BP-17 BP-18 BP-19 BP-20 BP-21 BP-22 BP-23 BP-24

SP-100

GT-7 GT-8 MW-20 7EGW23-2 1115-18

SECTOR

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	RAILROAD TRACKS
	CHAIN LINK FENCE
	TYPE I WELL
	TYPE II WELL
	TYPE III WELL (50' DEEP)
	TYPE III WELL (70'-90' DEEP)
	TYPE III WELL (GREATER THAN 100' DEEP)
	PUMPING WELL
	BIO-PULSE SPARGE WELL LOCATIONS
	BIO-PULSE SPARGE SCHEDULE

N

100 50 0' 100 200

SCALE IN FEET

REFERENCE:
BASE MAP INFORMATION WAS OBTAINED FROM DRAWING BY CATLIN ENGINEERS AND SCIENTISTS TITLED: PROPOSED REMEDIATION SYSTEM LAYOUT FIGURE 34 AND DATED JUNE 2003.

REVISIONS

REV	DATE	BY	CHK'D	APRV'D	DESCRIPTION/ISSUE

Shaw Environmental, Inc.

DESIGNED BY	CHECKED BY	APPROVED BY
RBK	RBK	
DRAWN BY		
JEL		

PROJECT NO. 119912

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA

FIGURE 2.1

HPFF BIO-PULSE SPARGE WELL LOCATION MAP

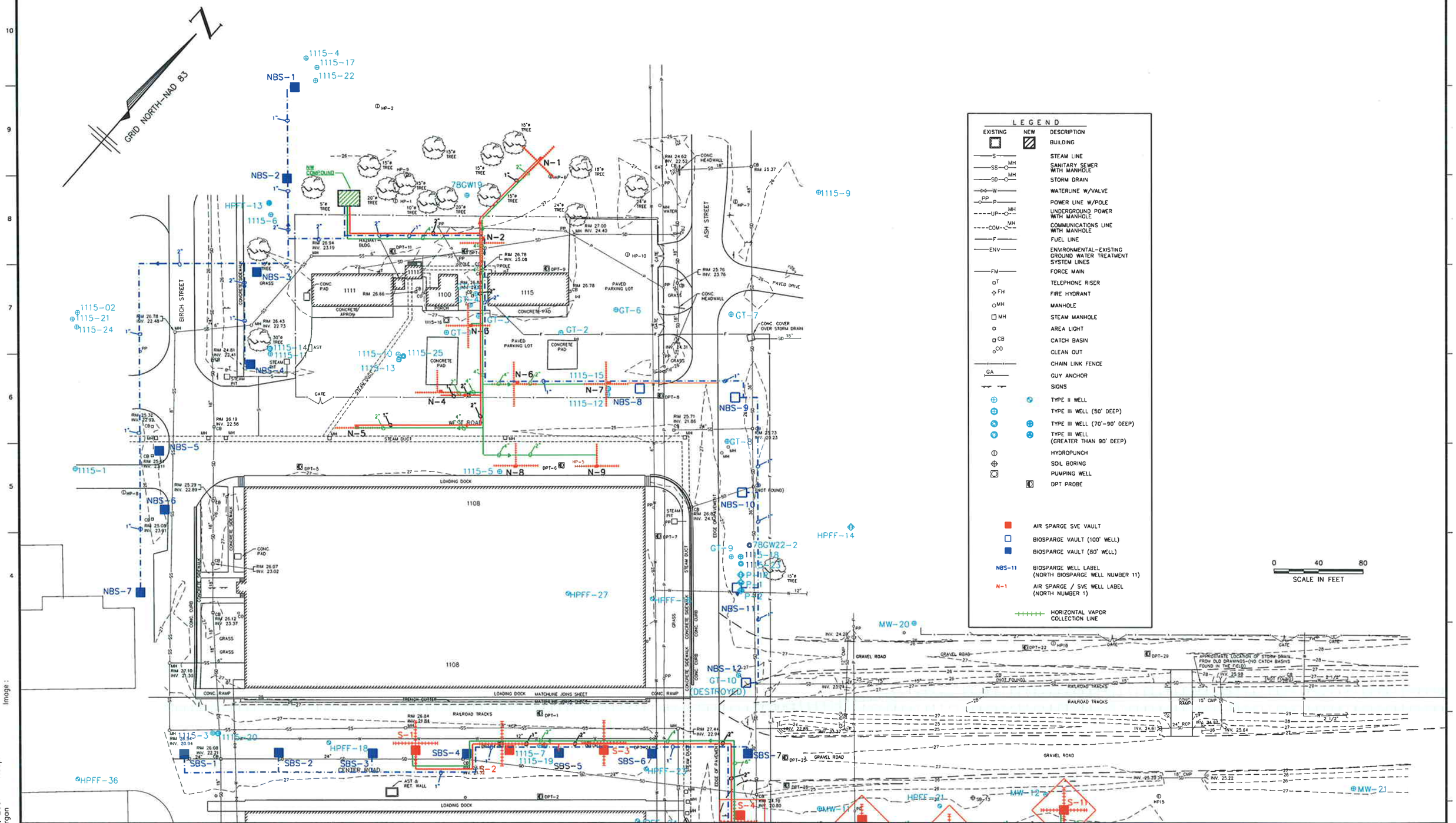
SCALE: AS SHOWN
SIZE: D

DELIVERY ORDER NO.

CONSTR. CONTRACT NO. N62470-02-D-3260

NAVFAC DRAWING NO.

SHEET I.D. 2.1



LEGEND

EXISTING	NEW	DESCRIPTION
▭	▨	BUILDING
—S—		STEAM LINE
—SS—○MH		SANITARY SEWER WITH MANHOLE
—SD—○MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—P—		POWER LINE W/POLE
---UP---○MH		UNDERGROUND POWER WITH MANHOLE
---COM---○MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL–EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
○T		TELEPHONE RISER
◇FH		FIRE HYDRANT
○MH		MANHOLE
□MH		STEAM MANHOLE
☼		AREA LIGHT
□CB		CATCH BASIN
○CO		CLEAN OUT
——		CHAIN LINK FENCE
GA		GUY ANCHOR
~~		SIGNS
⊕	⊕	TYPE II WELL
⊕		TYPE III WELL (50' DEEP)
⊕	⊕	TYPE III WELL (70'–90' DEEP)
⊕	⊕	TYPE III WELL (GREATER THAN 90' DEEP)
⊕		HYDROPUNCH
⊕		SOIL BORING
▣		PUMPING WELL
◐		DPT PROBE

- AIR SPARGE SVE VAULT
- BIOSPARGE VAULT (100' WELL)
- BIOSPARGE VAULT (80' WELL)
- NBS-11 — BIOSPARGE WELL LABEL (NORTH BIOSPARGE WELL NUMBER 11)
- N-1 — AIR SPARGE / SVE WELL LABEL (NORTH NUMBER 1)
- HORIZONTAL VAPOR COLLECTION LINE

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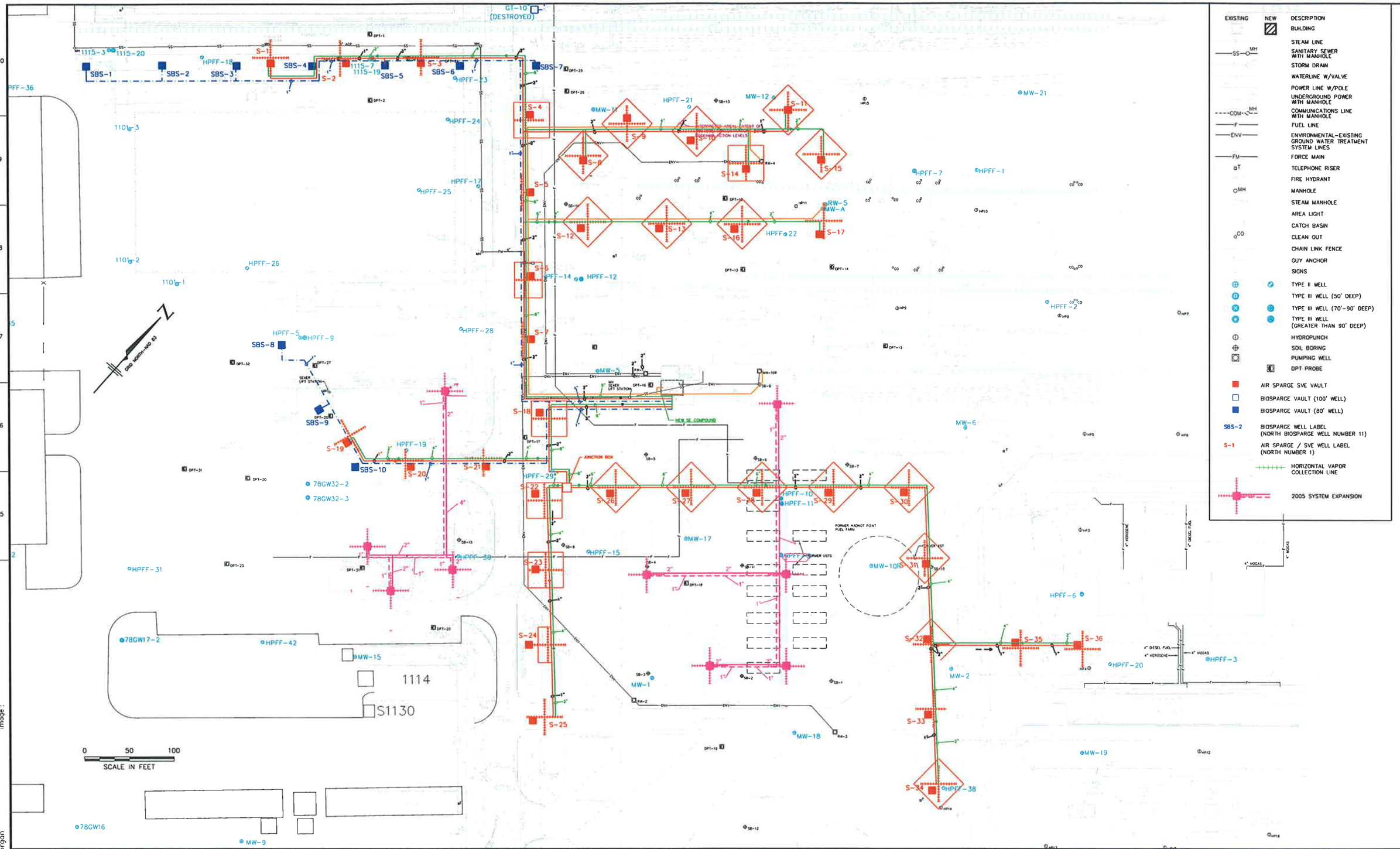
CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055

PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 3.1
EXISTING AS/SVE REMEDIAL SYSTEM
NW COMPOUND
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06

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CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

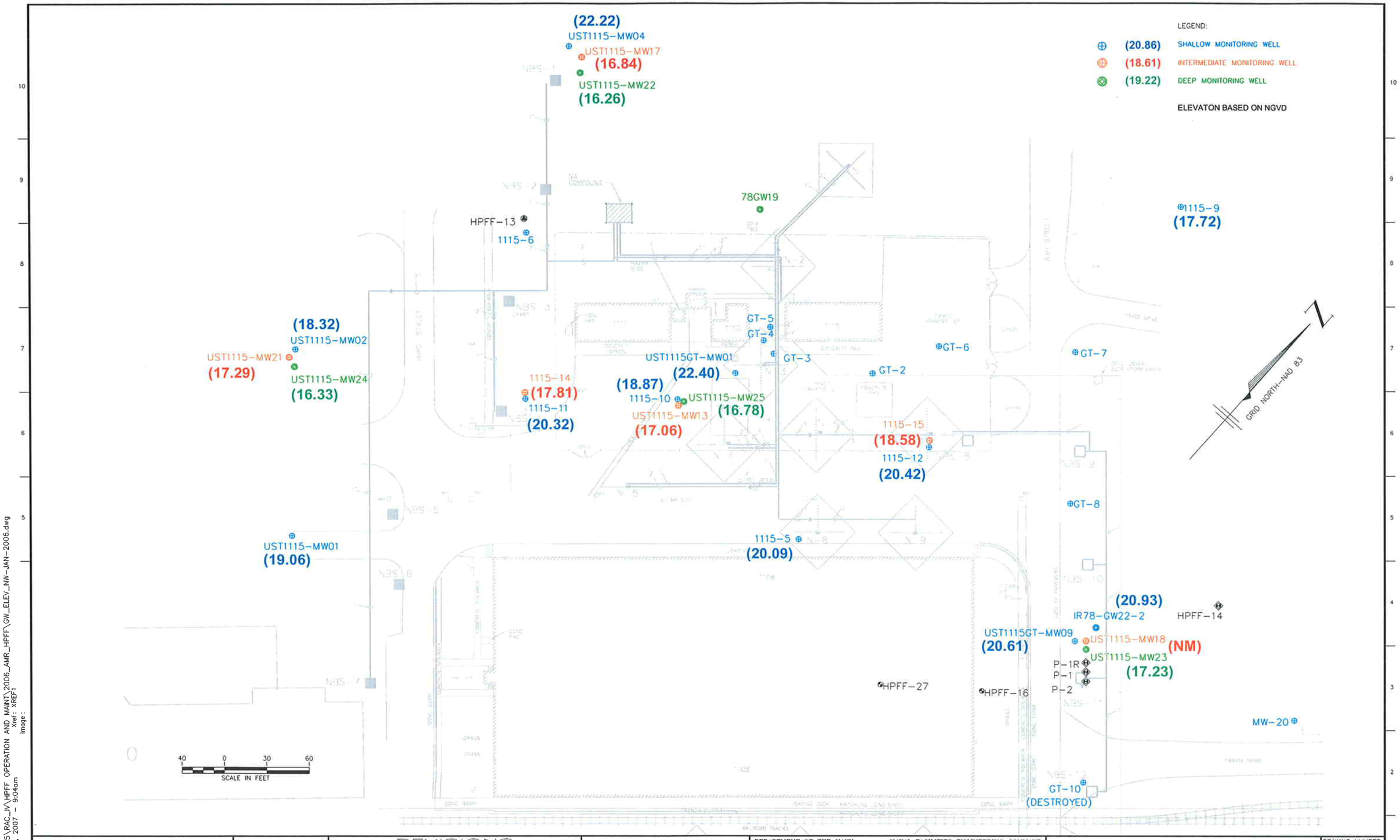
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 3.2
EXISTING AS/SVE REMEDIAL SYSTEM
SE COMPOUND
HADNOT POINT FUEL FARM

DRAWING NUMBER:

SHEET NUMBER: of

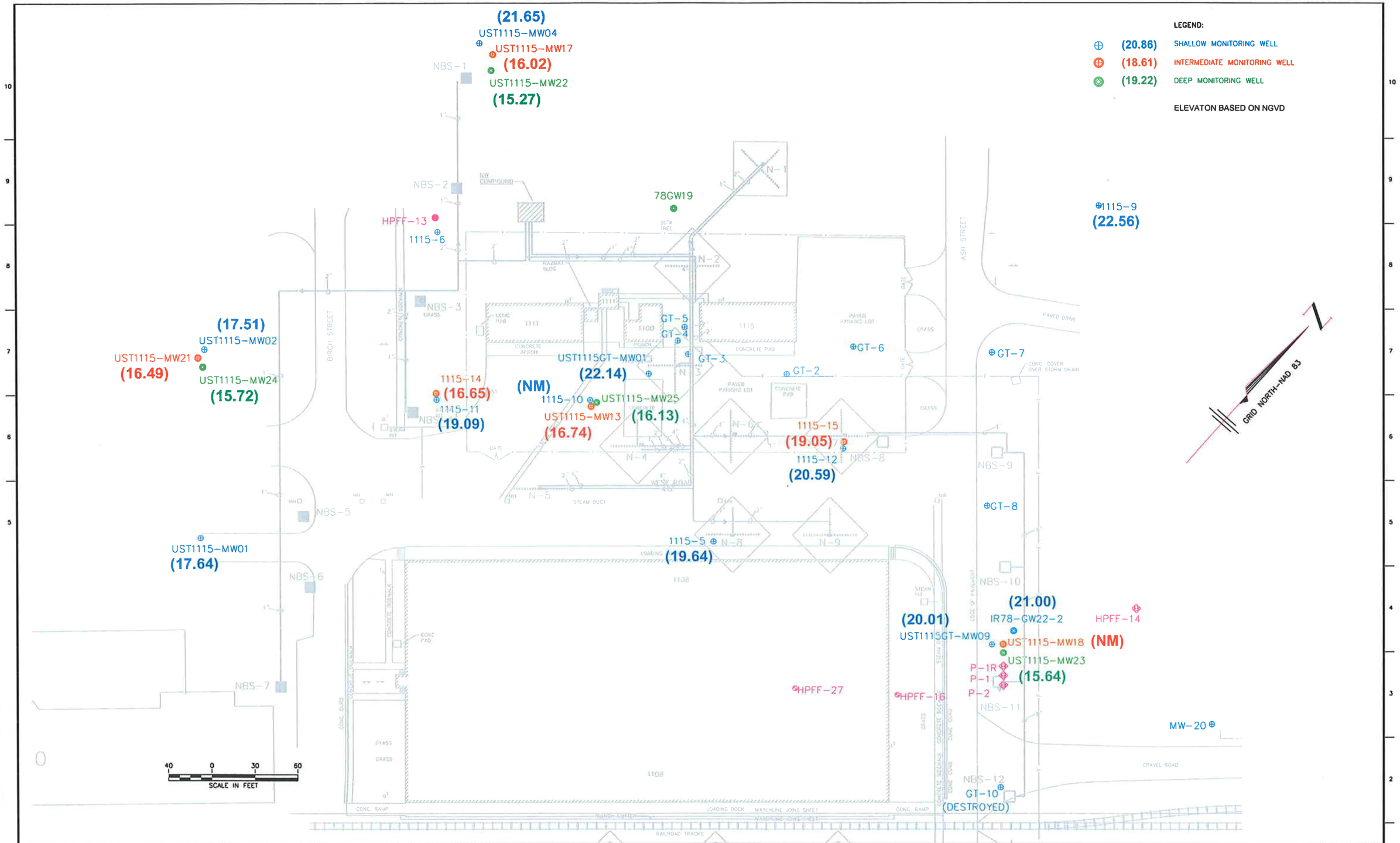
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APPROVED: ____ DEPT. MANAGER DATE: ____	DESIGNED: ____							CONTRACT N62470-02-D-3260 TASK ORDER NO. 055	DATE: 12/24/06
	CHECKED: ____							ROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.	
	CHECKED: ____								

FIGURE 4.1
GROUNDWATER ELEVATIONS
JANUARY, 2006
HPFF NORTH WEST

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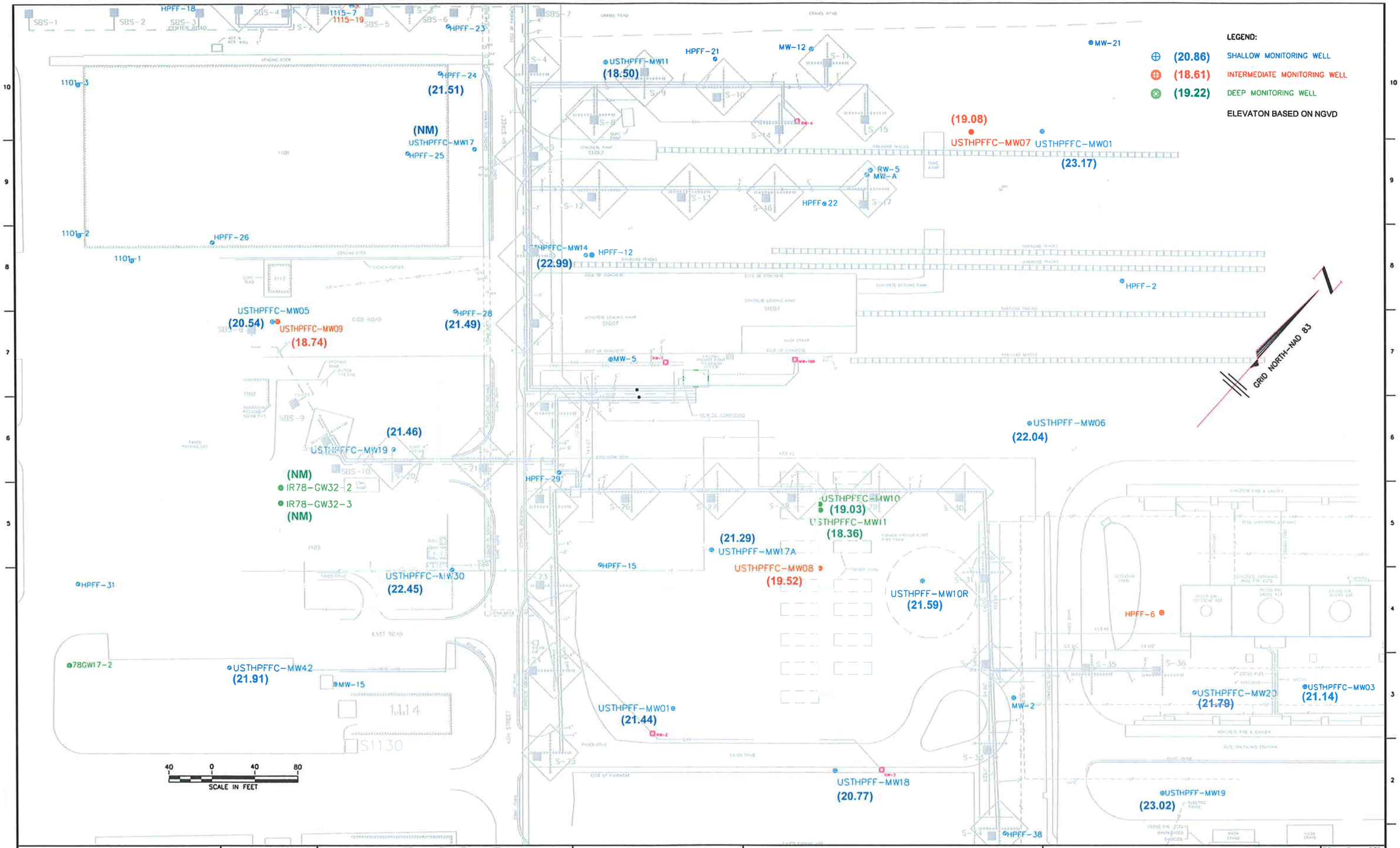


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APPROVED: ____ SR. PROJECT ENGINEER: ____ DATE: ____	DRAWN:	NAVAL STATION — NORFOLK, VIRGINIA	SHEET NUMBER: of
APPROVED: ____ DEPT. MANAGER: ____ DATE: ____	DESIGNED:	CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055	DATE: 12/24/06
	CHECKED:	PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.	
	CHECKED:		

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FIGURE 4.2
GROUNDWATER ELEVATIONS
OCTOBER, 2006
HPFF NORTH WEST



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NAVAL STATION NORFOLK, VIRGINIA

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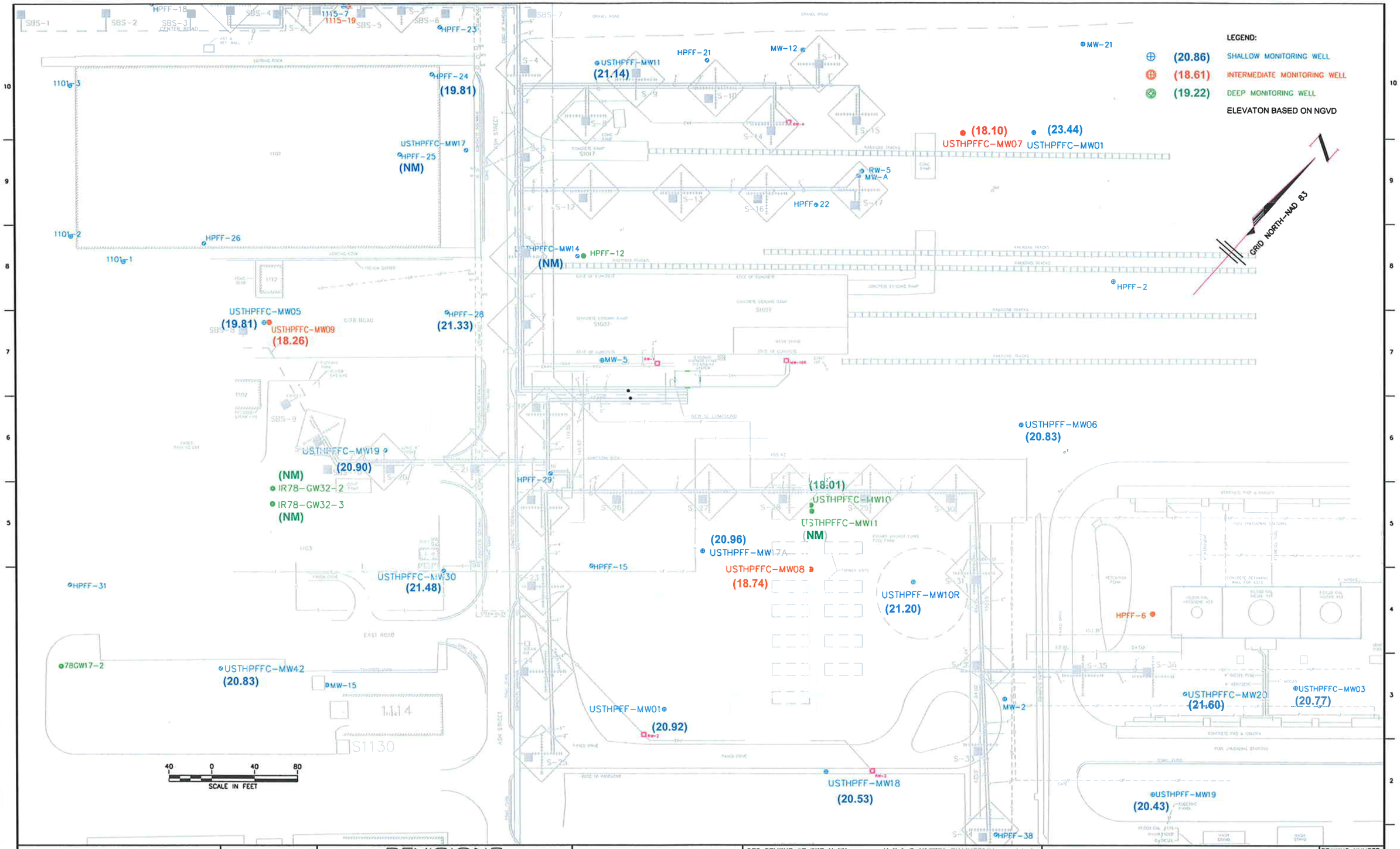
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.3
GROUNDWATER ELEVATIONS
JANUARY, 2006
HPFF SOUTH EAST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 12/24/06



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APPROVED: _____ DEPT. MANAGER DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
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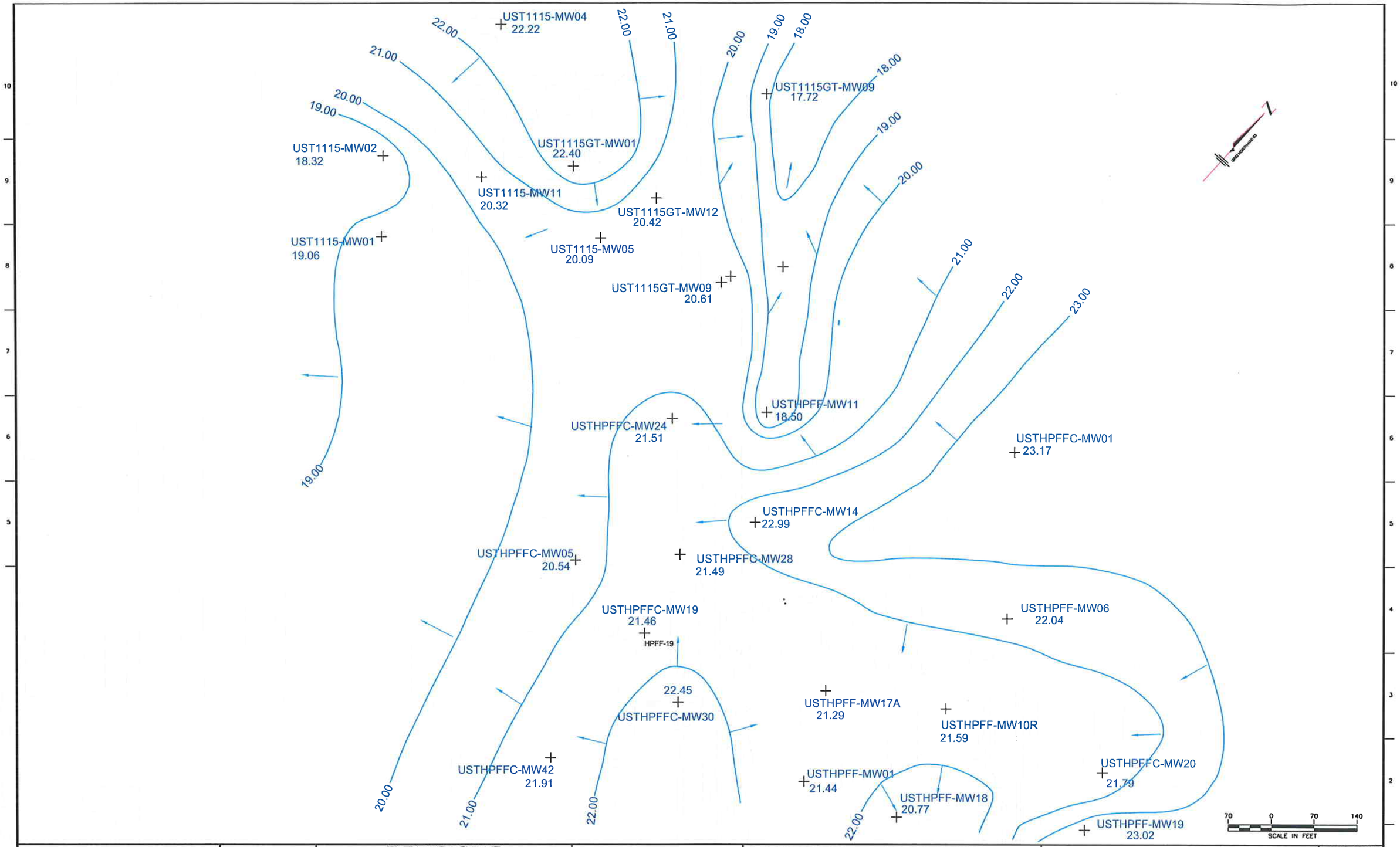
PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.4
GROUNDWATER ELEVATIONS
OCTOBER, 2006
HPFF SOUTH EAST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 12/24/06



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APPROVED: _____ DATE: _____ DEPT. MANAGER

AT FULL SCALE (IF NOT 1"=SCALE ACCORDINGLY)
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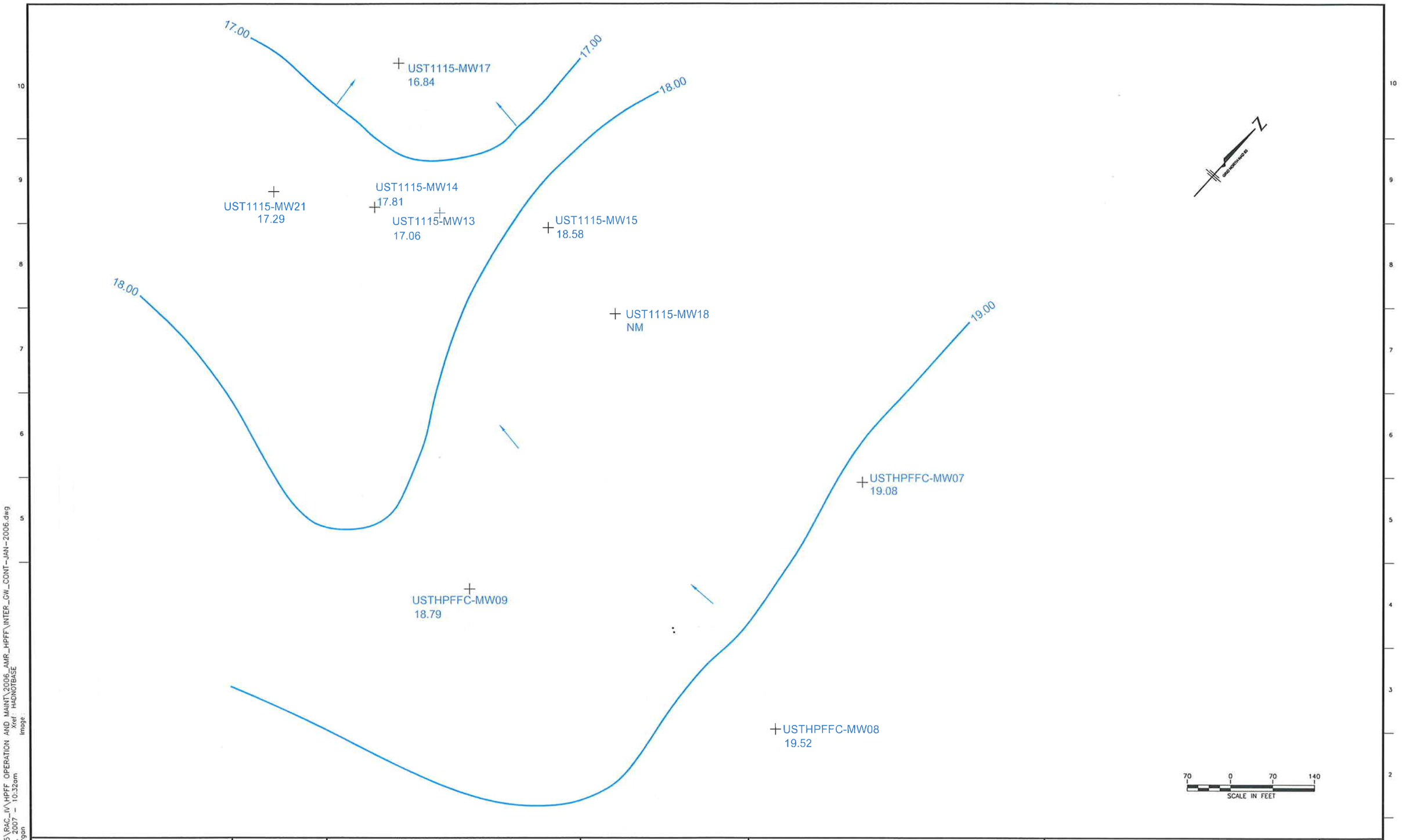
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CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5A
SHALLOW GROUNDWATER ELEVATION MAP
JANUARY 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 12/24/06



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Plot Date/Time: Jan 11, 2007 - 10:32am
Plotted By: angela.n.morgan
Xref: HADNOTBASE
Image:

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APPROVED: _____ DEPT. MANAGER: _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
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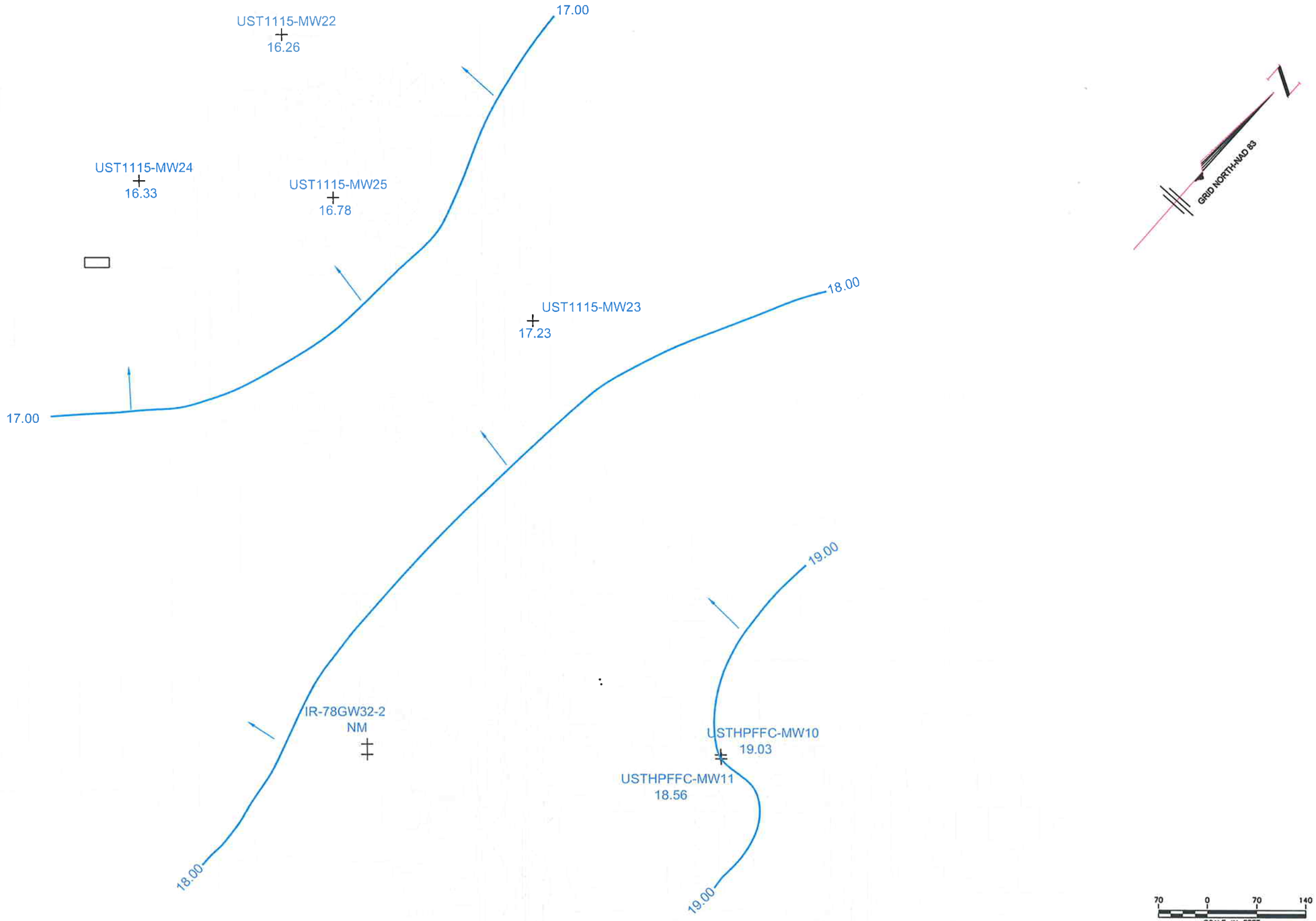
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CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055
PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5B
INTERMEDIATE GROUNDWATER ELEVATION MAP
JANUARY 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 12/24/06



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Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: _____ DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"=SCALE ACCORDINGLY)
CADD FILE: _____
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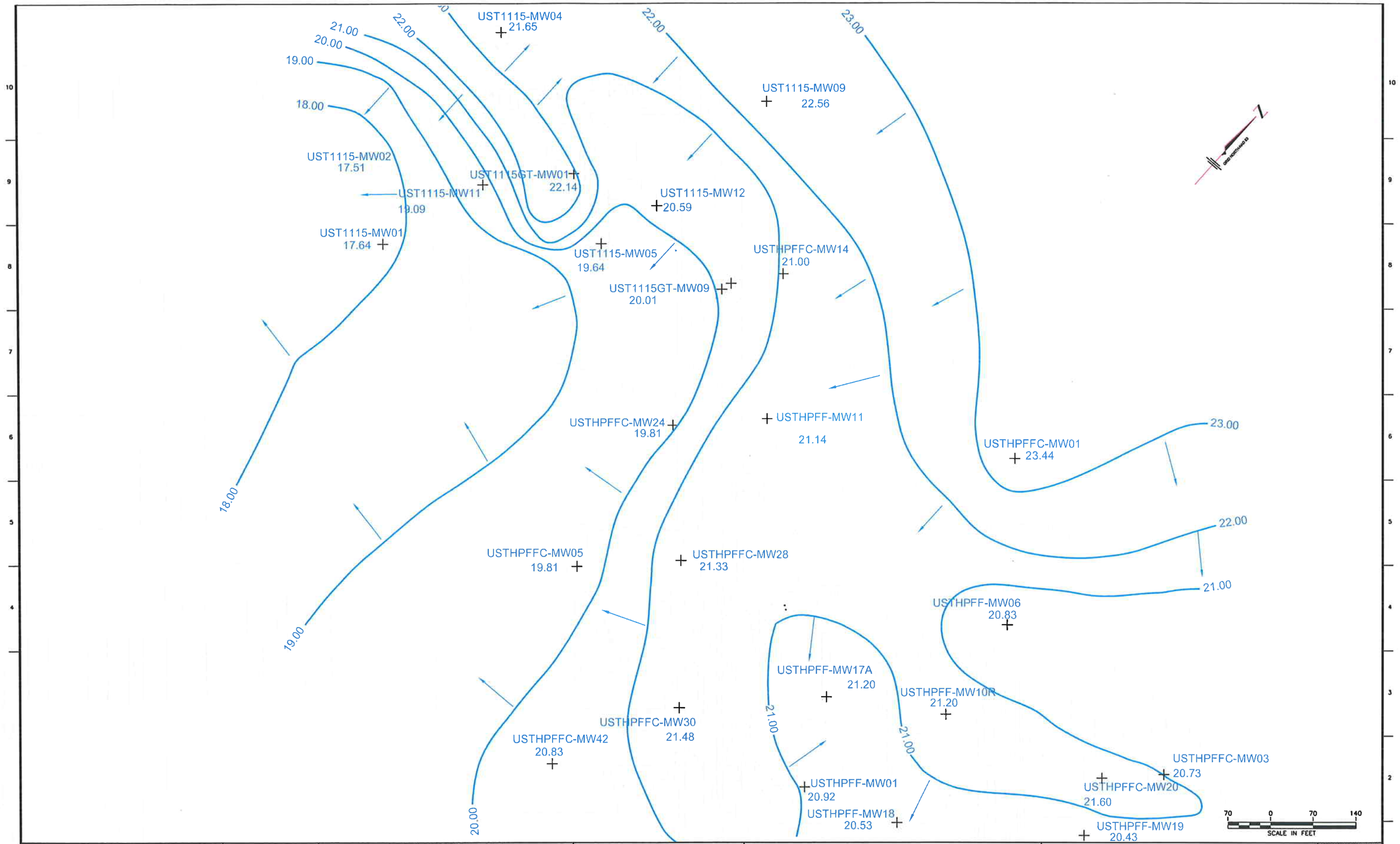
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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5C
DEEP GROUNDWATER ELEVATION MAP
JANUARY 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06



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Shaw Environmental, Inc.

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APPROVED: _____ DATE: _____ SR. PROJECT ENGINEER
APPROVED: _____ DATE: _____ DEPT. MANAGER

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE:
DRAWN:
DESIGNED:
CHECKED:
CHECKED:

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6A
SHALLOW GROUNDWATER ELEVATION MAP
OCTOBER 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06

UST1115-MW17
16.02

17.00

18.00

19.00

UST1115-MW21
16.49

UST1115-MW14
16.65

UST1115-MW13
16.74

UST1115-MW15
19.05

18

UST1115-MW18
(NM)

USTHPFFC-MW07
18.10

18.00

USTHPFFC-MW09
18.26

USTHPFFC-MW08
18.74

19.00

GRID NORTH-NAD 83

70 0 70 140
SCALE IN FEET

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(IF NOT 1"=SCALE ACCORDINGLY)
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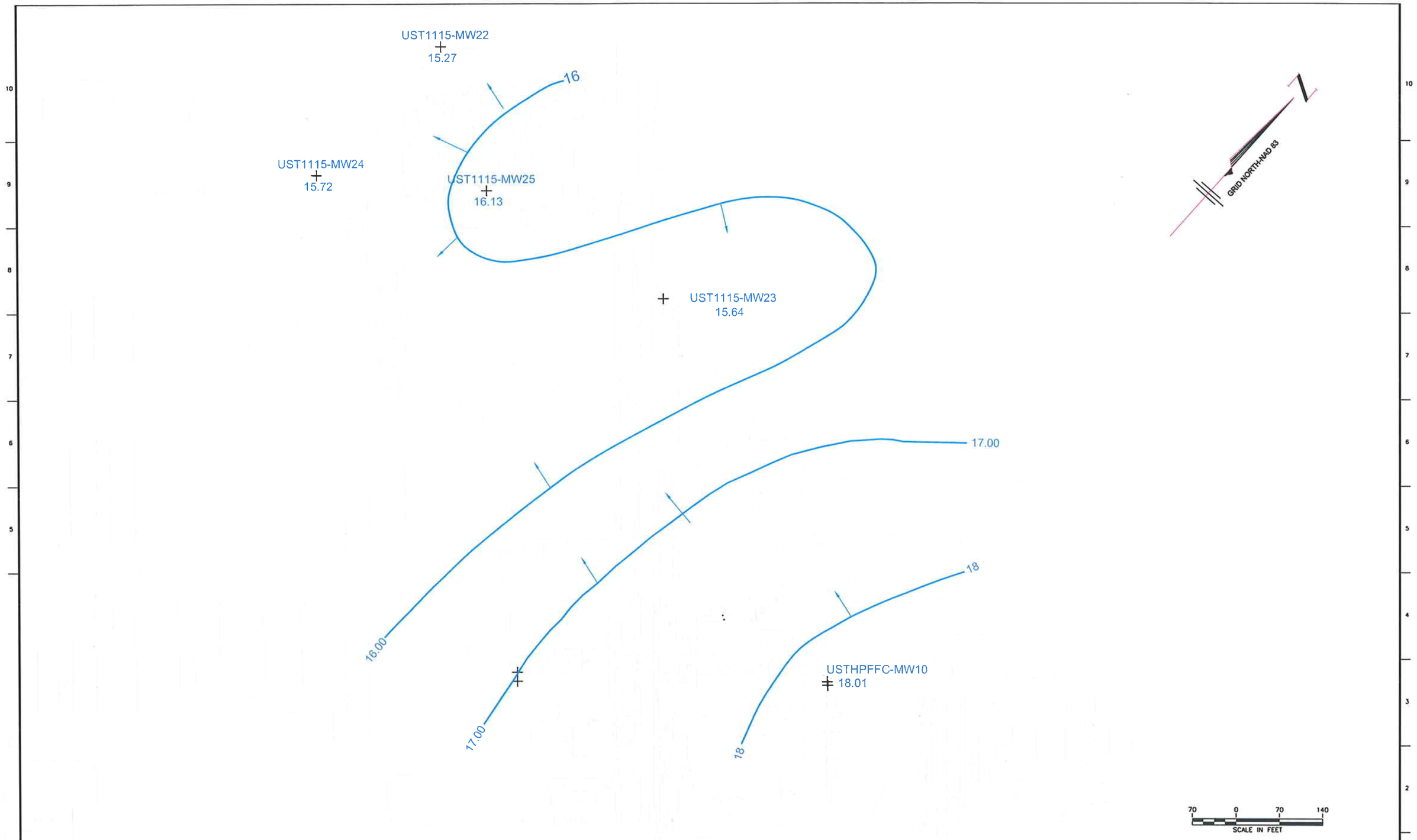
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6B
INTERMEDIATE GROUNDWATER ELEVATION MAP
OCTOBER 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 12/24/05



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APPROVED: _____ DEPT. MANAGER DATE: _____

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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6C
DEEP GROUNDWATER ELEVATION MAP
OCTOBER 2006
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 12/24/06

UST1115-MW04	1/20/06	10/2/06
BENZENE	9.0	56.6
ETHYLBENZENE	<1.0	<1.0
TOLUENE	<1.0	1.1
XYLENES	<3.0	<3.0
NAPHTHALENE	<1.9	<1.9

UST1115-MW17	1/20/06	10/2/06
BENZENE	39.3	168
ETHYLBENZENE	0.86J	4.2
TOLUENE	1.1	2.4
XYLENES	<3.0	4.0
NAPHTHALENE	3.1	2.4

UST1115-MW22	1/20/06	10/02/06
BENZENE	1830	3880
ETHYLBENZENE	6.0	<20
TOLUENE	16.4	35.7
XYLENES	14.4	32.65
NAPHTHALENE	2.9	3.1

UST1115-MW02	1/20/06	10/2/06
BENZENE	14.9	25.3
ETHYLBENZENE	<1.0	<1.0
TOLUENE	<1.0	<1.0
XYLENES	<3.0	<3.0
NAPHTHALENE	<1.9	<1.9

UST1115-MW21	1/20/06	10/2/06
BENZENE	175	197
ETHYLBENZENE	<1.0	<2.0
TOLUENE	<1.0	1.1J
XYLENES	<3.0	<6.0
NAPHTHALENE	2.1	1.8J

UST1115GT-MW01	1/23/06	10/3/06
BENZENE	1100	2220
ETHYLBENZENE	110	478
TOLUENE	19	480
XYLENES	86.3	189
NAPHTHALENE	3.2	3.7

UST1115GT-MW07	1/23/06	10/9/06
BENZENE	421	220
ETHYLBENZENE	1.3	2.1
TOLUENE	2.6	<1.0
XYLENES	<3.0	<3.0
NAPHTHALENE	<1.9	<1.9

UST1115-MW24	1/20/06	10/2/06
BENZENE	1750	2250
ETHYLBENZENE	<1.0	<50
TOLUENE	0.69J	<50
XYLENES	<3.0	<150
NAPHTHALENE	<1.9	<1.9

UST1115GT-MW09	1/23/06	10/2/06
BENZENE	154	9.7
ETHYLBENZENE	4.7	1.2
TOLUENE	22.3	2.2
XYLENES	13.5	1.8J
NAPHTHALENE	<1.9	<1.9

IR78-GW22-2	1/23/06	10/02/06
BENZENE	95.4	98.3
ETHYLBENZENE	3.7	6.3
TOLUENE	17.3	18.1
XYLENES	10.7	12.9
NAPHTHALENE	<1.9	<1.9

UST1115-MW01	1/23/06	10/03/06
BENZENE	<1.0	163
ETHYLBENZENE	<1.0	30.3
TOLUENE	<1.0	43.1
XYLENES	<3.0	18.8
NAPHTHALENE	<1.9	1.1J

UST1115-MW13	1/23/06	10/3/06
BENZENE	263	278
ETHYLBENZENE	32	26.6
TOLUENE	13.5	25.7
XYLENES	23.5	32
NAPHTHALENE	58.7	68.1

UST1115-MW25	1/23/06	10/03/06
BENZENE	5000	5160
ETHYLBENZENE	61.7J	54.6J
TOLUENE	225	285
XYLENES	256J	174J
NAPHTHALENE	<1.9	<1.9

UST1115-MW18	1/25/06	10/3/06
BENZENE	<1.0	NS
ETHYLBENZENE	<1.0	NS
TOLUENE	51.0	NS
XYLENES	<3.0	NS
NAPHTHALENE	<2.0	NS

UST1115-MW23	1/23/06	10/2/06
BENZENE	7230	1910
ETHYLBENZENE	124	49.6
TOLUENE	441	198
XYLENES	318	96.4
NAPHTHALENE	2.8	1.0J

LEGEND:

- SHALLOW WELL ANALYTICAL RESULTS
- INTERMEDIATE WELL ANALYTICAL RESULTS
- DEEP WELL ANALYTICAL RESULTS

BOLD INDICATES NCGOS EXCEEDENCE

ALL RESULTS IN UG/L

GRID NORTH-NAD 83

UST1115-MW04 UST1115-MW17 UST1115-MW22 UST1115-MW02 UST1115-MW21 UST1115-MW24 UST1115-MW01 HPFF-13 1115-6 1115-14 1115-11 1115-10 UST1115-MW25 UST1115-MW13 1115-5 GT-5 GT-4 GT-3 UST1115GT-MW01 GT-2 GT-6 1115-15 1115-12 1115-9 UST1115GT-MW07 GT-8 HPFF-14 IR78-GW22-2 UST1115GT-MW09 UST1115-MW18 UST1115-MW23 P-1R P-1 P-2 HPFF-27 HPFF-16 MW-20 GT-10 (DESTROYED) NBS-5 NBS-6 NBS-7 NBS-2 NBS-3 NBS-4 NBS-8 NBS-9 NBS-11 NBS-12 1200

30 0 30 60
SCALE IN FEET

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 DELIVERY ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4-7
GROUNDWATER ANALYTICAL RESULTS
BUILDING 1115
HADNOT POINT NORTH WEST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 12/24/06

File: Q:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2006_AMR_HPFF\GW_ANAL_NW_2006.dwg
Plot Date/Time: Mar 26, 2007 - 3:17pm
Plotted By: john.lange
Xref: XREF1
Image:

USTHPFF-MW11	1/25/06	10/9/06
BENZENE	53.6	3.7
ETHYLBENZENE	2.2	<1.0
TOLUENE	32.6	0.95J
XYLENES	288	36
NAPHTHALENE	<2.1	<1.9

USTHPFFC-MW07	1/24/06	10/4/06
BENZENE	<1.0	4.7
ETHYLBENZENE	<1.0	2.1
TOLUENE	<1.0	1.8
XYLENES	<3.0	1.2J
NAPHTHALENE	<1.9	<1.9

LEGEND:

SHALLOW WELL ANALYTICAL RESULTS

INTERMEDIATE WELL ANALYTICAL RESULTS

DEEP WELL ANALYTICAL RESULTS

BOLD INDICATES NCGQS EXCEEDENCE

ALL RESULTS IN UG/L

USTHPFFC-MW19	1/24/06	10/6/06
BENZENE	12100	1110
ETHYLBENZENE	711	92.8
TOLUENE	9910	975
XYLENES	3920	615
NAPHTHALENE	155	NS

USTHPFFC-MW01	1/24/06	10/4/06
BENZENE	<1.0	26.3
ETHYLBENZENE	<1.0	4.8
TOLUENE	<1.0	6.6
XYLENES	<3.0	4.0
NAPHTHALENE	<2.0	<1.9

USTHPFFC-MW05	1/24/06	10/6/06
BENZENE	<1.0	156
ETHYLBENZENE	<1.0	50.4
TOLUENE	<1.0	485
XYLENES	<3.0	217
NAPHTHALENE	<1.9	10.0

USTHPFFC-MW09	1/24/06	10/6/06
BENZENE	<1.0	323
ETHYLBENZENE	<2.0	101
TOLUENE	<1.0	849
XYLENES	<3.0	416
NAPHTHALENE	<1.9	17.4

USTHPFFC-MW11	1/24/06	12/1/06
BENZENE	96.7	41.2
ETHYLBENZENE	33.5	<1.0
TOLUENE	471	<1.0
XYLENES	133	<3.0
NAPHTHALENE	3.9	<1.9

USTHPFFC-MW08	1/24/06	10/6/06
BENZENE	7480	4940
ETHYLBENZENE	331	303
TOLUENE	327	765
XYLENES	617	695
NAPHTHALENE	87.7	95.7

USTHPFF-MW10R	1/24/06	10/4/06
BENZENE	1770	1280
ETHYLBENZENE	631	650
TOLUENE	2190	1990
XYLENES	2940	2900
NAPHTHALENE	99.6	132

IR78-GW32-2	1/24/06	10/6/06
BENZENE	NS	NS
ETHYLBENZENE	NS	NS
TOLUENE	NS	NS
XYLENES	NS	NS
NAPHTHALENE	NS	NS

USTHPFF-MW17A	1/24/06	10/6/06
BENZENE	5630	4480
ETHYLBENZENE	2260	2240
TOLUENE	22800	16400
XYLENES	9200	8280
NAPHTHALENE	302	372

USTHPFFC-MW20	1/24/06	10/4/06
BENZENE	4050	453
ETHYLBENZENE	698	265
TOLUENE	10600	130
XYLENES	3180	712
NAPHTHALENE	143	53.8

IR78-GW32-3	1/24/06	10/6/06
BENZENE	NS	NS
ETHYLBENZENE	NS	NS
TOLUENE	NS	NS
XYLENES	NS	NS
NAPHTHALENE	NS	NS

USTHPFF-MW01	1/23/06	10/6/06
BENZENE	2860	2790
ETHYLBENZENE	2850	1980
TOLUENE	20300	15000
XYLENES	13100	9330
NAPHTHALENE	404	364

USTHPFF-MW18	1/23/06	10/6/06
BENZENE	12400	10300
ETHYLBENZENE	1220	1090
TOLUENE	26100	20400
XYLENES	8650	6840
NAPHTHALENE	473	465

40 0 40 80

SCALE IN FEET

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINA

CONTRACT N62470-02-D-3620 DELIVERY ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4-8

GROUNDWATER ANALYTICAL RESULTS

FUEL FARM

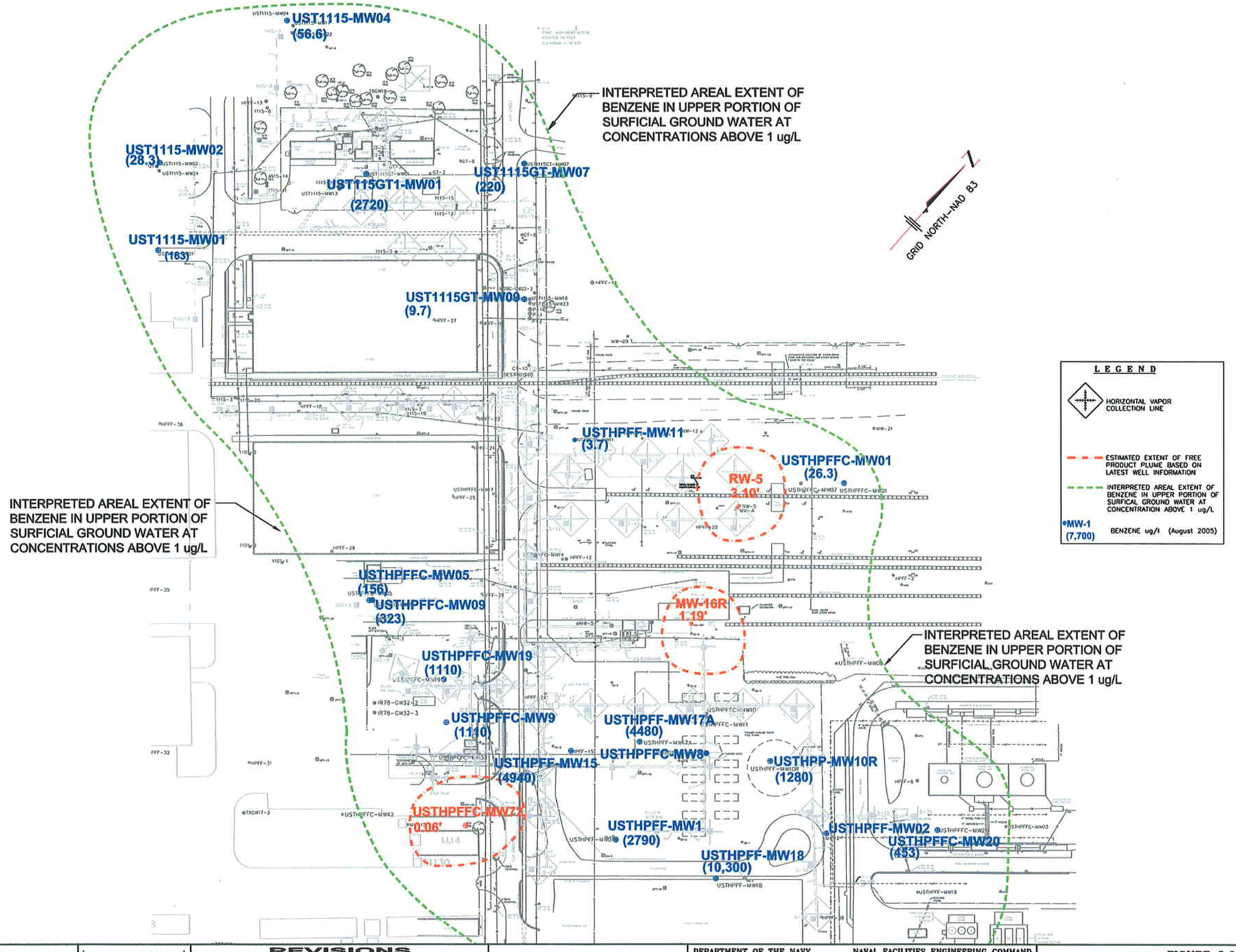
HADNOT POINT SOUTH EAST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 12/24/06

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Plotted By: angela.morgan
Xref: XREF1
Image:



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APPROVED: _____ DATE: _____ DEPT. MANAGER

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DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

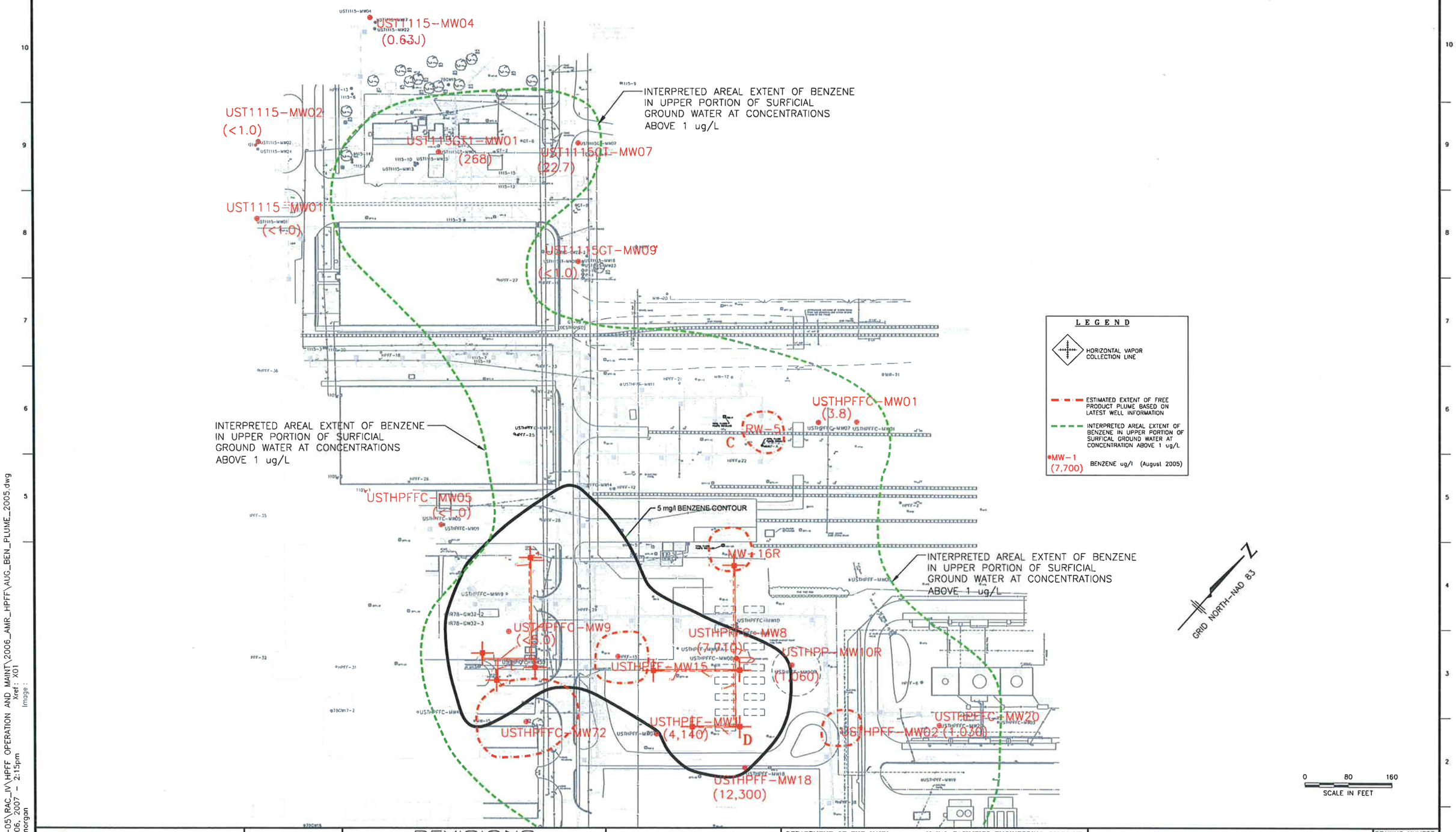
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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.0
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
OCTOBER 2006
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 01/24/06



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Plotted By: angela.n.morgan
Xref: X01
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APPROVED: _____ DEPT. MANAGER DATE: _____

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DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

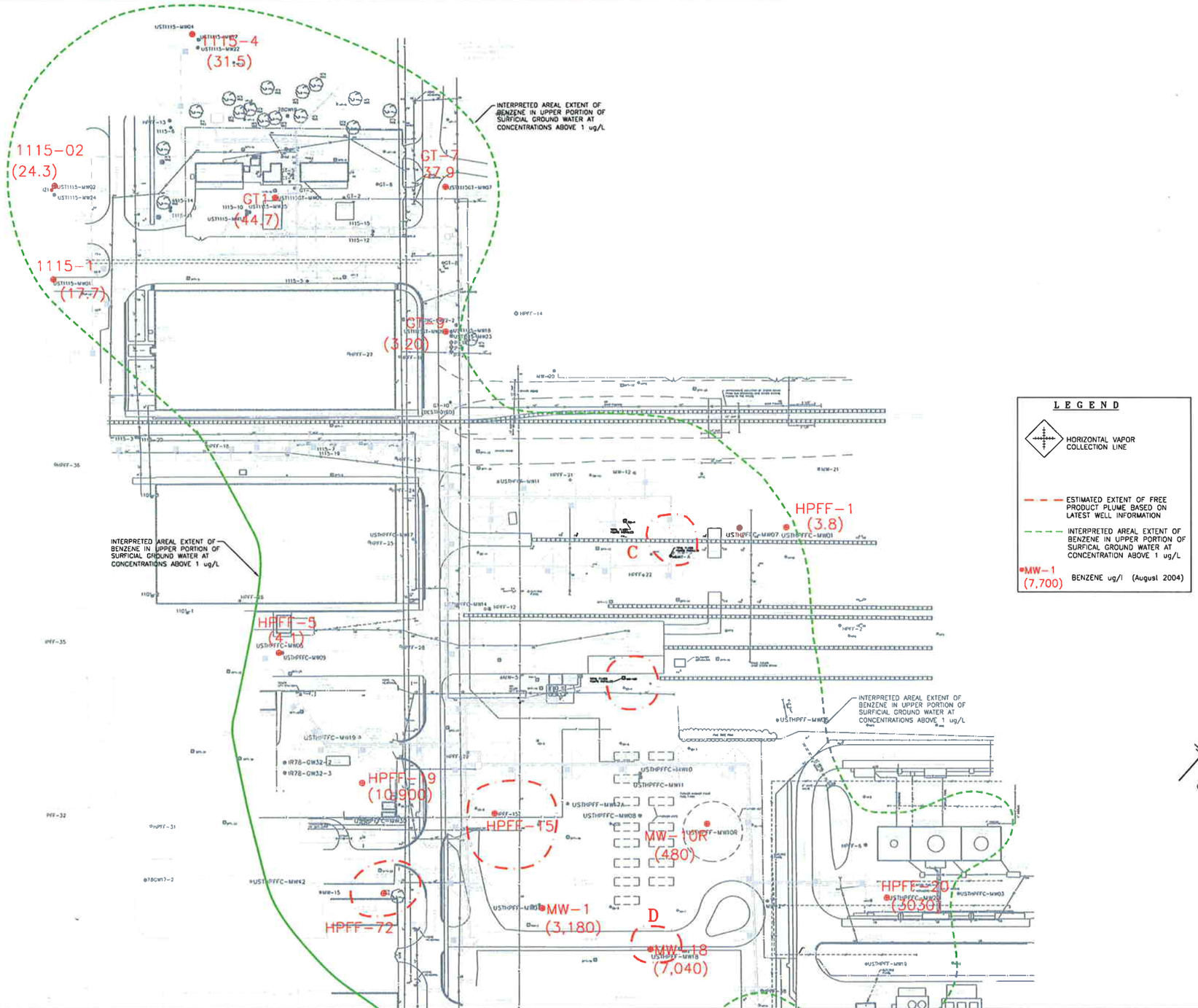
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.1
BUILDING 1115 (NW COMPOUND) & HPFF (SE COMPOUND) AREAL EXTENT OF SHALLOW GROUNDWATER & FREE PRODUCT CONTAMINATION AUGUST 2005
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 01/24/06



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Plotted By: angela.n.morgan
Xref: X01
Image:

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APPROVED: _____ DEPT. MANAGER: _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

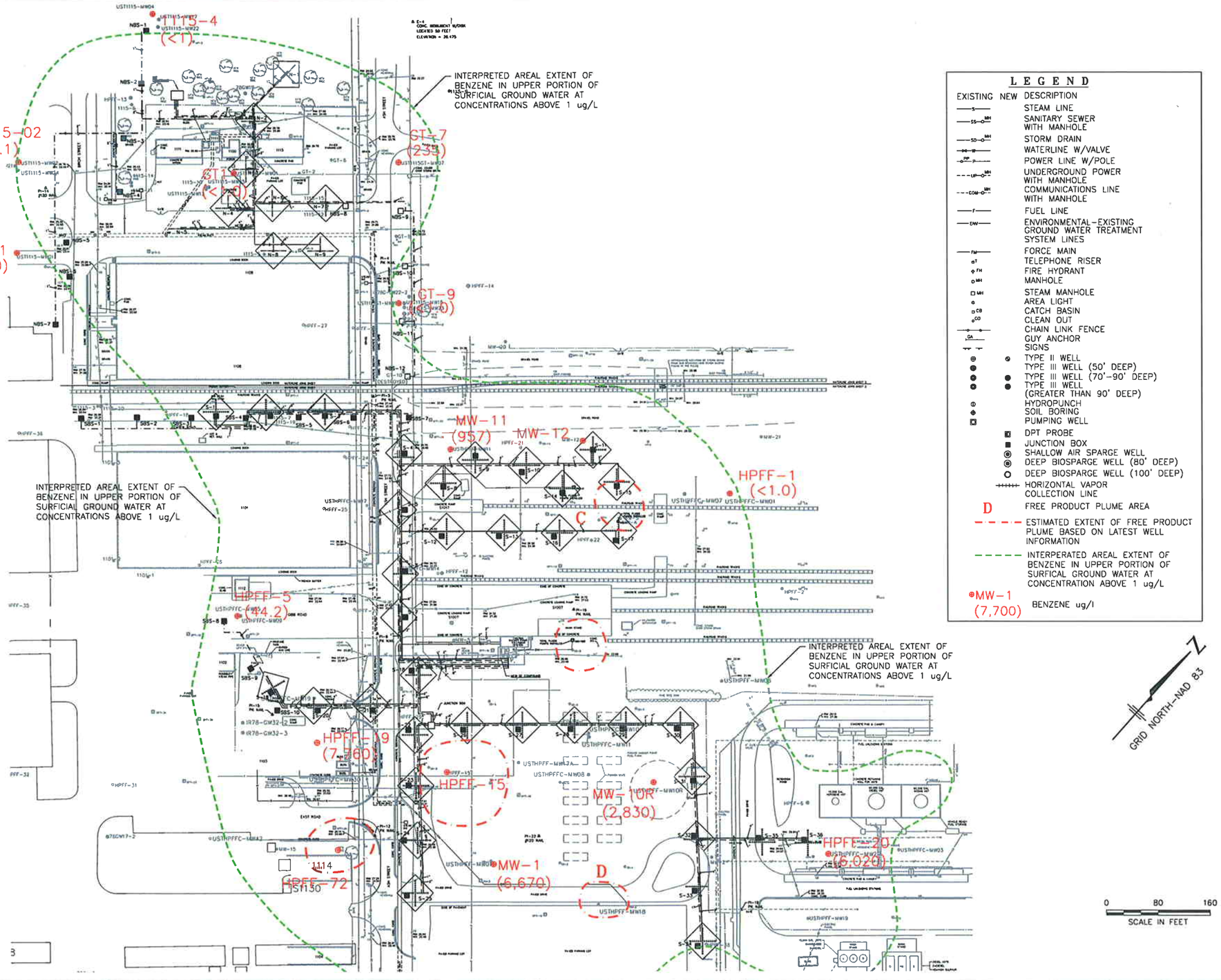
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.2
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2004
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
		STEAM LINE
		SANITARY SEWER WITH MANHOLE
		STORM DRAIN
		WATERLINE W/VALVE
		POWER LINE W/POLE
		UNDERGROUND POWER WITH MANHOLE
		COMMUNICATIONS LINE WITH MANHOLE
		FUEL LINE
		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
		FORCE MAIN
		TELEPHONE RISER
		FIRE HYDRANT
		MANHOLE
		STEAM MANHOLE
		AREA LIGHT
		CATCH BASIN
		CLEAN OUT
		CHAIN LINK FENCE
		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
	D	FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
	MW-1 (7,700)	BENZENE ug/l

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DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

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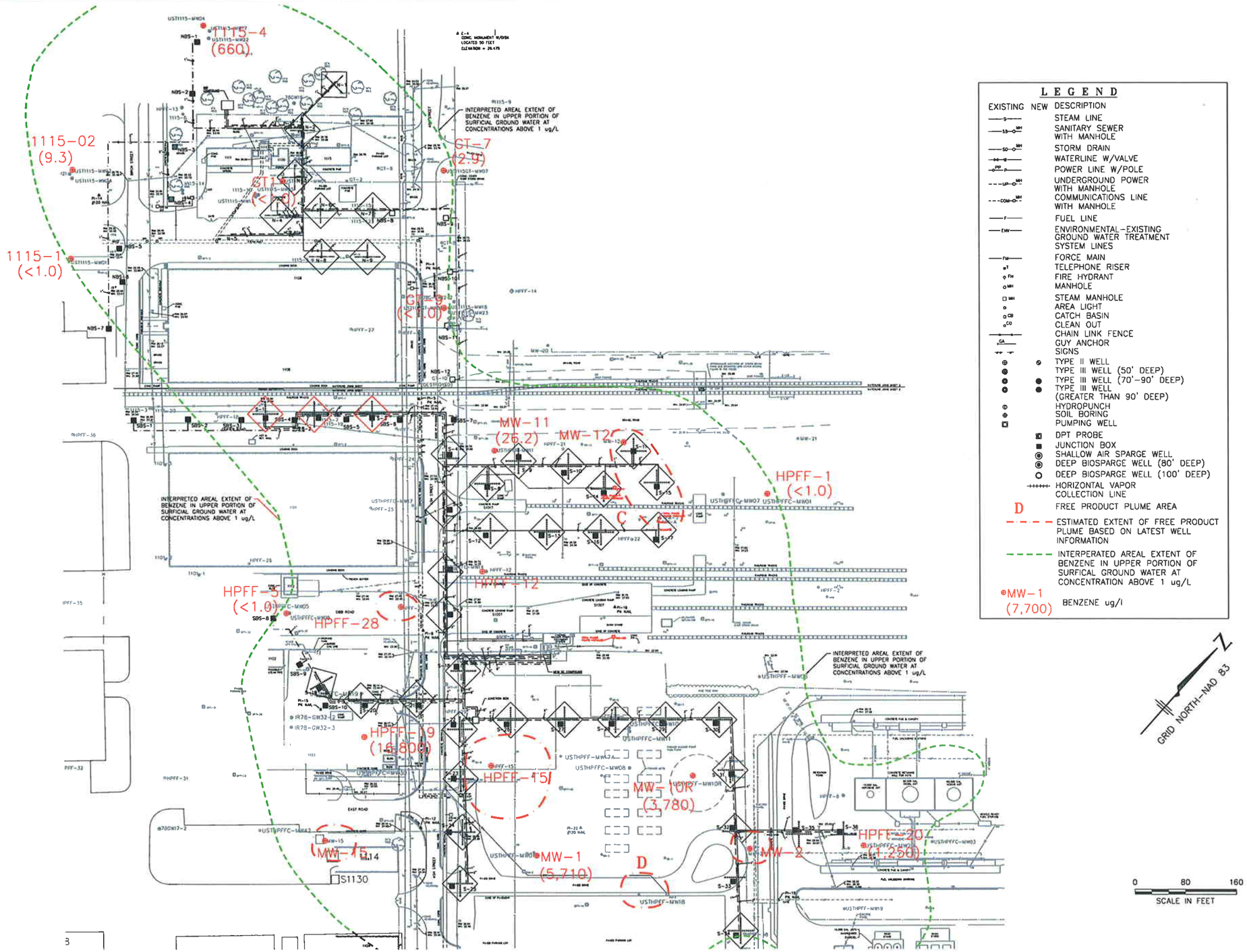
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.3
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2003
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06

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Plotted By: angela.n.morgan
Xref: XO1
Image:



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—MH		SANITARY SEWER WITH MANHOLE
—SD—MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—P—		POWER LINE W/POLE
—UP—MH		UNDERGROUND POWER WITH MANHOLE
—COM—MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—EW—		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
	—FM—	FORCE MAIN
	T	TELEPHONE RISER
	FH	FIRE HYDRANT
	MH	MANHOLE
	MH	STEAM MANHOLE
		AREA LIGHT
	CB	CATCH BASIN
	CO	CLEAN OUT
—o—o—		CHAIN LINK FENCE
		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
D		FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
MW-1 (7,700)		BENZENE ug/l

File: X:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2006_AMR_HPFF\AUGBEN2002.dwg
Plot Date/Time: Mar 06, 2007 - 2:18pm
Plotted By: angelo.n.morgan
Xref : X01
Image :

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APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

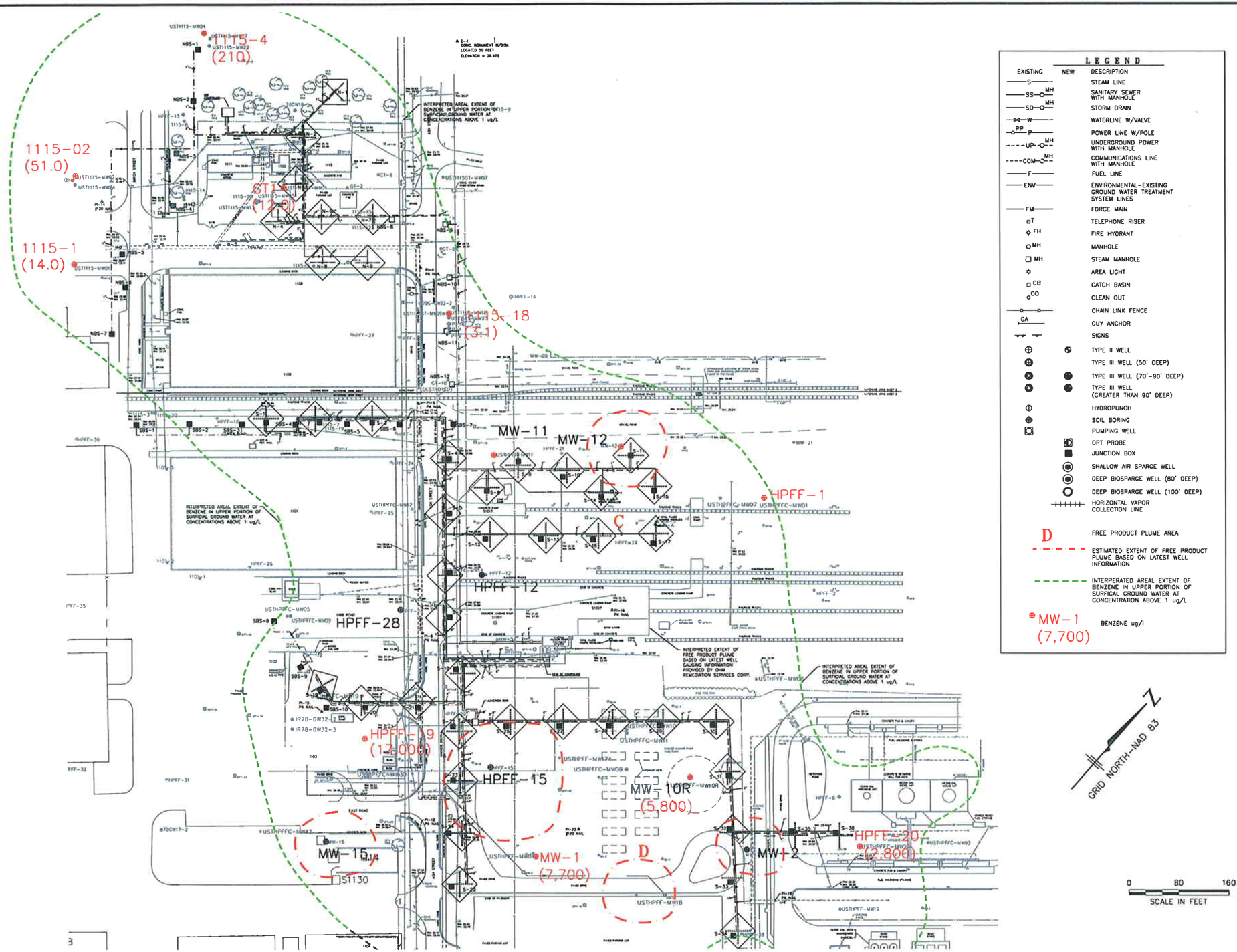
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.4
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2002
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
S		STEAM LINE
SS–MH		SANITARY SEWER WITH MANHOLE
SD–MH		STORM DRAIN
W		WATERLINE W/VALVE
PP–P		POWER LINE W/POLE
UP–MH		UNDERGROUND POWER WITH MANHOLE
COM–MH		COMMUNICATIONS LINE WITH MANHOLE
F		FUEL LINE
ENV		ENVIRONMENTAL–EXISTING GROUND WATER TREATMENT SYSTEM LINES
FM		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'–90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
D		FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
MW–1 (7,700)		BENZENE ug/l

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Shaw Environmental, Inc.

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APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"–SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: PAUL MATZ
CHECKED: K. MAK
CHECKED: JIM DUNN

REVISIONS

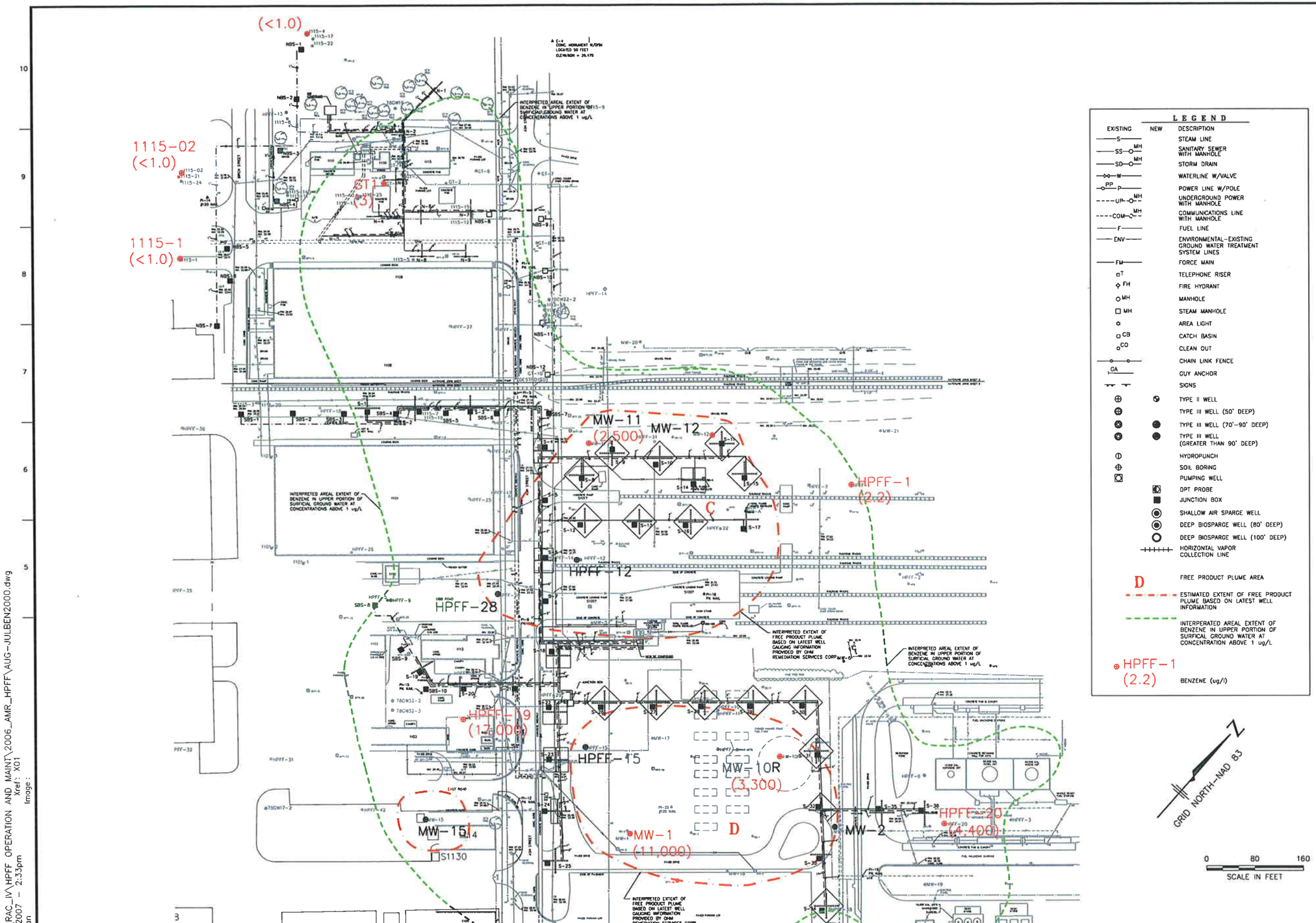
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 DELIVERY ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.5
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
JULY 2001
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06

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Plot Date/Time: Mar 06, 2007 – 2:19pm
Plotted By: angela.n.morgan
Xref: X01
Image :



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—○MH		SANITARY SEWER WITH MANHOLE
—SD—○MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—P—		POWER LINE W/POLE
---UP---○MH		UNDERGROUND POWER WITH MANHOLE
---COM---○MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
⊡T		TELEPHONE RISER
◇FH		FIRE HYDRANT
○MH		MANHOLE
□MH		STEAM MANHOLE
✿		AREA LIGHT
○CB		CATCH BASIN
○CO		CLEAN OUT
—o—o—		CHAIN LINK FENCE
GA		GUY ANCHOR
▾—▾—		SIGNS
⊕	◔	TYPE II WELL
⊕		TYPE III WELL (50' DEEP)
⊗	●	TYPE III WELL (70'-90' DEEP)
⊗	●	TYPE III WELL (GREATER THAN 90' DEEP)
⊕		HYDROPUNCH
⊕		SOIL BORING
⊠		PUMPING WELL
	⊡	DPT PROBE
	■	JUNCTION BOX
	◉	SHALLOW AIR SPARGE WELL
	◉	DEEP BIOSPARGE WELL (80' DEEP)
	○	DEEP BIOSPARGE WELL (100' DEEP)
	++++++	HORIZONTAL VAPOR COLLECTION LINE
	D	FREE PRODUCT PLUME AREA
	-·-·-	ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
	- - -	INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
⊕HPFF-1 (2.2)		BENZENE (ug/l)

File: X:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2006_AMR_HPFF\AUG-JULBEN2000.dwg
Plot Date/Time: Mar 06, 2007 - 2:33pm
Plotted By: angela.n.morgan
Xref: X01
Image:

Shaw
Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: _____ DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

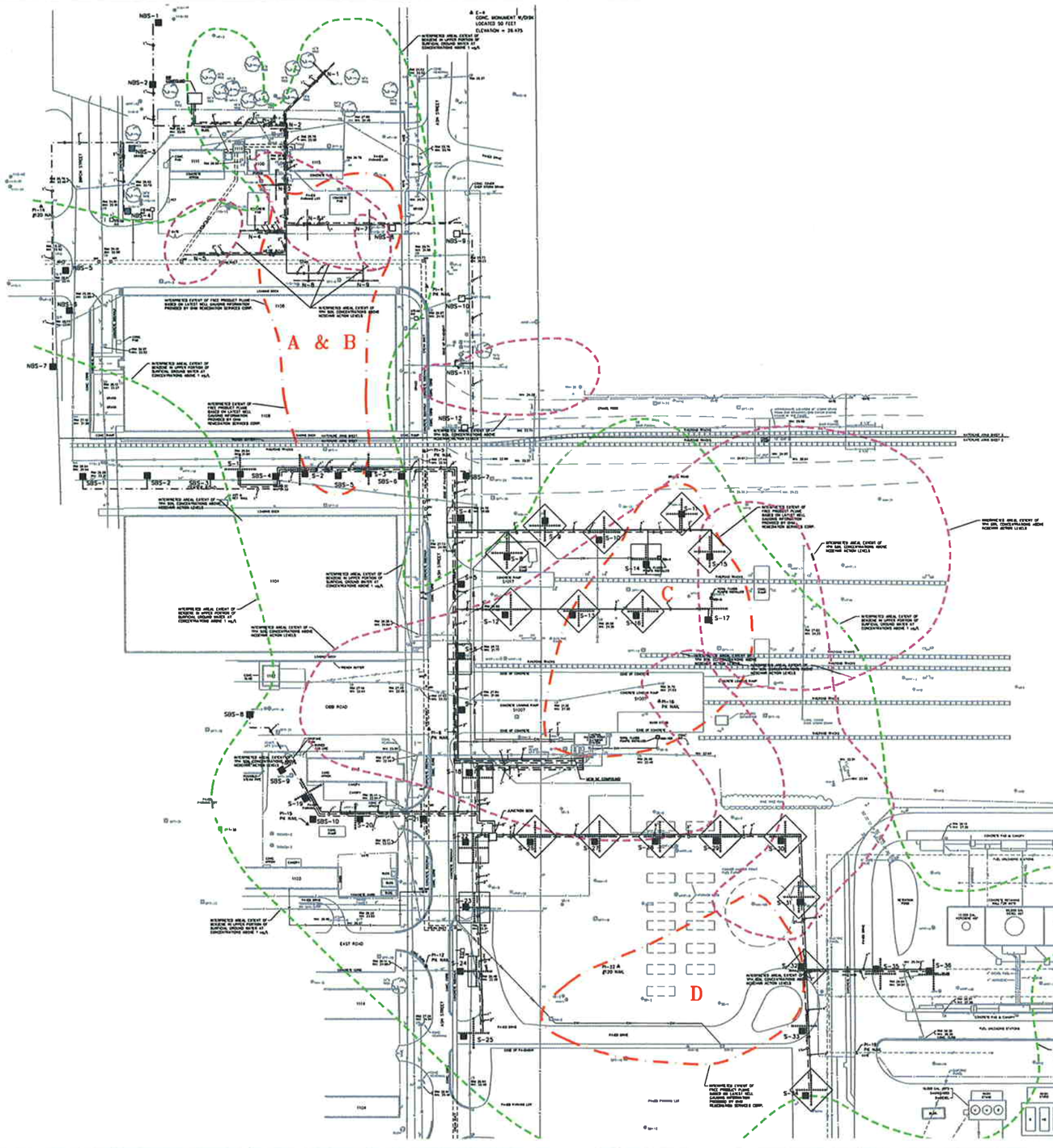
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 — DELIVERY ORDER NO. 055
PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.6
BUILDING 1115 (NW COMPOUND) & HPFF (SE COMPOUND) AREAL EXTENT OF SHALLOW GROUNDWATER & FREE PRODUCT CONTAMINATION JULY 2000
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—○MH		SANITARY SEWER WITH MANHOLE
—SD—○MH		STORM DRAIN
—W—		WATERLINE W/VALVE
PP —P—		POWER LINE W/POLE
—UP—○MH		UNDERGROUND POWER WITH MANHOLE
—COM—○MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
		FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPRETED AREAL EXTENT OF TPH SOIL CONCENTRATIONS ABOVE NCDEHR ACTION LEVELS
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L

N
GRID NORTH-NAD 83

0 80 160
SCALE IN FEET

Shaw
Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: _____ DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINA

CONTRACT N62470-02-D-3260 DELIVERY ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.7
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER, SOIL & FREE PRODUCT CONTAMINATION
JULY 1999
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06

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Plot Date/Time: Mar 06, 2007 - 2:34pm
Plotted By: angela.n.morgan
Xref: X01
Image :

APPENDIX A

AGGRESSIVE FLUID/VAPOR RECOVERY (AFVR) SUMMARY TABLE

Aggressive Fluid Vapor Recovery (AFVR)
Petroleum Recovery Data
Hadnot Point Fuel Farm, Southeast Compound

Month	Number of Events		Petroleum Recovery	
	Area C	Area D	Pounds	Gallons
Sep-05	0	4	433.6	68.9
Oct-05	0	5	408.5	65.0
Nov-05	0	2	150.5	23.9
Dec-05	0	3	280.3	44.6
Jan-06	0	4	395.5	62.9
Feb-06	0	4	296.6	47.1
Mar-06	0	0	0.0	0.0
Apr-06	0	6	555.9	88.4
May-06	0	3	280.4	44.6
Jun-06	0	6	478.3	76.1
Jul-06	0	6	541.9	86.2
Aug-06	0	2	220.7	35.1
Sep-06	0	5	483.2	76.8
Oct-06	0	0	0.0	0.0
Nov-06	0	0	0.0	0.0
Dec-06	0	2	194.7	30.9
Jan-07	0	1	104.2	16.6
Feb-07	0	0	0.0	0.0
Mar-07	0	0	0.0	0.0
Apr-07	0	1	105.1	16.7
May-07	0	1	100.7	16.0
Total	**0**	**55**	**5030.1**	**799.8**

APPENDIX B

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-GT-1**

Sample ID:		UST1115T199C4	UST1115T199C3	UST1115T100C2	UST1115T101C1	UST1115T101C	UST1115-T1-02A	UST1115-T1-02C	UST1115-T1-03A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02	08/05/02	02/18/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**310 B**	**8300**	**13**	**25**	**12**	**4.0**	**0.88 J**	**80**
Ethylbenzene	550	**56**	**730**	**8.7**	**7**	**10**	**3.0**	**1.9**	**41**
Toluene	1000	**19 B**	**130**	**7.5**	**1.3**	**1.3**	<1.0	<1.0	**557**
Xylenes (total)	530	**86 B**	**1400**	**32**	**7.8**	**14**	**1.4 J**	<3.0	**201**
Total BTEX		**471**	**10560**	**61.2**	**41.1**	**37.3**	**8.4**	**2.78**	**879**
PAH EPA 610									
Naphthalene	21	**30**	**13**	<2.0	<2.0	**2.3**	<5.0	<5.2	**6.6**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-GT-1**

Sample ID:		MW-GT-1-03C	UST1115-T1-04A	UST1115-T1-04C	UST1115GT-MW01	UST1115GT-MW01	UST1115GT-MW01	UST1115GT-MW01
Date Sampled:		08/22/03	02/21/04	08/25/04	03/24/05	08/17/05	01/23/06	10/03/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	<1.0	**29.7**	**44.7**	**35.8**	**268**	**1100**	**2720**
Ethylbenzene	550	<1.0	**10.5**	**5.5**	**6.8**	**6.8**	**110**	**478**
Toluene	1000	<1.0	**2.7**	**8.6**	**1.8**	**2.7 J**	**19**	**480**
Xylenes (total)	530	<3.0	**8.3**	**4.4**	**3.7**	<15	**86.3**	**189**
Total BTEX			**51.2**	**63.2**	**48.1**	**277.5**	**1315.3**	**3867**
PAH EPA 610								
Naphthalene	21	<5.4	<5.4	**10.7**	<4.8	**6.5**	**3.2**	**3.7**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-GT-7**

Sample ID:		UST1115-T7-02C	UST1115-T7-03A	MW-GT-7-03C	MW-GT-7-04A	MW-GT-7-04C	UST1115GT-MW07	UST1115GT-MW07	UST1115GT-MW07	UST1115GT-MW07
Date Sampled:		08/12/02	02/17/03	08/20/03	02/21/04	08/19/04	03/24/05	08/17/05	01/25/06	10/09/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602										
Benzene	1	**2.9**	**205**	**235**	**0.74 J**	**37.9**	**11**	**22.7**	**421**	**220**
Ethylbenzene	550	**1.6**	<1.0	**0.63 J**	<1.0	**1.5**	<1.0	<1.0	**1.3**	**2.1**
Toluene	1000	<1.0	<1.0	**0.65 J**	**0.78 J**	**8.20**	**2.2**	<1.0	**2.60**	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	**4.4**	**1.2 J**	<3.0	<3.0	<3.0
Total BTEX		**4.5**	**205**	**236.28**	**1.52**	**52**	**14.4**	**22.7**	**424.9**	**222.1**
PAH EPA 610										
Naphthalene	21	**8.9**	<5.4	<5.0	<5.3	<4.8	<4.8	<1.9	<1.9	<1.9
Bold type indicates detectable concentrations.										
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-GT-9**

Sample ID:		UST1115-T9-02C	UST1115-T9-03A	MW-GT-9-03C	MW-GT-9-04A	MW-GT-9-04C	UST1115GT-MW09	UST1115GT-MW09	UST1115GT-MW09	UST1115GT-MW09
Date Sampled:		08/07/02	02/21/03	08/20/03	02/24/04	08/27/04	03/22/05	08/17/05	01/23/06	10/02/09
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602										
Benzene	1	**0.92 J**	**21.1**	<1.0	<1.0	**3.2**	<1.0	<1.0	**154**	**9.7**
Ethylbenzene	550	<1.0	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	**4.7**	**1.2**
Toluene	1000	<1.0	**2.5**	<1.0	<1.0	**0.76 J**	<1.0	<1.0	**22.3**	**2.2**
Xylenes (total)	530	<3.0	**1.3 J**	<3.0	<3.0	<3.0	<3.0	<3.0	**13.5**	**1.8 J**
Total BTEX		**0.92**	**26.9**			**3.96**			**194.5**	**14.9**
PAH EPA 610										
Naphthalene	21	<5.0	**4.5 J**	<5.3	<5.6	<4.8	<4.8	<1.9	<1.9	<1.9
Bold type indicates detectable concentrations.										
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **78GW22-2**

Sample ID:		UST111522-299C4	UST111522-299C3	UST111522-200C2	UST111522-201C1	UST111522-201C	UST1115-22-2-02A	UST1115-22-2-02C	UST1115-22-2-03A
Date Sampled:		01/06/99 & 01/19/99	08/12/99	05/26/00	01/22/01	07/27/01	02/02/02	08/05/02	02/17/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**320**	**69**	**28**	**50**	**3.2**	**22.8**	**28.3**	**41.1**
Ethylbenzene	550	**44**	**3.5**	<1.0	**2.4**	<1.0	<1.0	<1.0	<1.0
Toluene	1000	**160**	**3.6**	**1.4**	**0.37 J**	<1.0	<1.0	<1.0	**0.65 J**
Xylenes (total)	530	**130**	**9.3**	**1.1**	**0.82 J**	<1.0	<3.0	<3.0	<3.0
Total BTEX		**654**	**85.4**	**30.5**	**53.59**	**3.2**	**22.8**	**28.3**	**41.75**
PAH EPA 610									
Naphthalene	21	**11**	NS	<2.0	<2.0	<2.0	<5.0	<5.2	<5.1
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **78GW22-2**

Sample ID:		78GW22-2-03C	78GW22-2-04A	78GW22-2-04C	IR78-GW22-2	IR78-GW22-2	IR78-GW22-2	IR78-GW22-2
Date Sampled:		08/20/03	02/21/04	08/19/04	03/24/05	08/18/05	01/23/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**17.2**	**6.6**	**6.4**	**78.5**	**4.7**	**95.4**	**98.3**
Ethylbenzene	550	<1.0	<1.0	<1.0	**1.4**	<1.0	**3.7**	**6.3**
Toluene	1000	<1.0	<1.0	<1.0	**12.6**	<1.0	**17.3**	**18.1**
Xylenes (total)	530	<3.0	<3.0	<3.0	**6.3**	<3.0	**10.7**	**12.9**
Total BTEX		**17.2**	**6.6**	**6.4**	**98.8**	**4.7**	**127.1**	**135.6**
PAH EPA 610								
Naphthalene	21	<5.2	<5.4	<4.8	<4.8	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-01**

Sample ID:		UST11150199C4	UST11150100C2	UST11150101C1	UST11150101C	UST1115-01-02A	UST1115-01-02C	UST1115-01-03A
Date Sampled:		01/07/99 & 01/12/99	05/30/00	01/24/01	07/29/01	02/02/02	08/05/02	02/17/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**310 B**	<1.0	**32**	**14**	**6.0**	<1.0	**187**
Ethylbenzene	550	**56**	<1.0	**5.3**	**0.27 J**	<1.0	<1.0	<1.0
Toluene	1000	**29 B**	<1.0	**0.39 J**	**1.1**	<1.0	<1.0	**1.0**
Xylenes (total)	530	**100 B**	<1.0	**1.4**	<1.0	<3.0	<3.0	**1.6 J**
Total BTEX		**495**		**39.09**	**15.37**	**6**		**189.6**
PAH EPA 610								
Naphthalene	21	<2.0	<2.0	**3.9**	<2.0	<5.0	<5.1	<5.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-01**

Sample ID:		MW-1115-01-03C	MW-1115-01-04A	MW-1115-01-04C	UST1115-MW01	UST1115-MW01	UST1115-MW01	UST1115-MW01
Date Sampled:		08/20/03	02/21/04	08/19/04	03/24/05	08/18/05	01/23/06	10/03/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	<1.0	<1.0	**17.7**	**3.8**	<1.0	<1.0	**153**
Ethylbenzene	550	<1.0	<1.0	**0.92**	<1.0	<1.0	<1.0	**30.3**
Toluene	1000	<1.0	**1.0**	**4.6**	**0.71 J**	<1.0	<1.0	**43.1**
Xylenes (total)	530	<3.0	<3.0	**2.9**	<3.0	<3.0	<3.0	**18.8**
Total BTEX			**1**	**26.12**	**4.51**			**255.2**
PAH EPA 610								
Naphthalene	21	<5.3	<5.1	<4.8	<4.8	<1.9	<1.9	**1.1 J**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-02**

Sample ID:		UST11150299C4	UST11150299C3	UST11150200C2	UST11150201C1	UST11150201C	UST1115-02-02A	UST1115-02-02C	UST1115-02-03A
Date Sampled:		01/06/99	08/12/99 & 08/26/99	05/26/00	01/24/01	07/29/01	02/02/02	08/06/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**29**	**53**	<1.0	**150**	**51**	**11.9**	**9.3**	**125**
Ethylbenzene	550	**7.2**	**3.5**	<1.0	**16**	**0.24 J**	**0.6**	<1.0	**6.6**
Toluene	1000	**20**	**1.9**	<1.0	**1.2 J**	**0.87 J**	<1.0	<1.0	**6.4**
Xylenes (total)	530	**22**	**9.6**	<1.0	**4.5**	<1.0	<3.0	<3.0	**3.7 J**
Total BTEX		**78.2**	**68**		**171.7**	**52.11**	**12.5**	**9.3**	**141.7**
PAH EPA 610									
Naphthalene	21	**2.4**	<2.0	<2.0	**27**	<2.0	<5.0	<5.1	**11.2**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-02**

Sample ID:		MW-1115-02-03C	MW-1115-02-04A	MW-1115-02-04C	UST1115-MW02	UST1115-MW02	UST1115-MW02	UST1115-MW02
Date Sampled:		08/19/03	02/25/04	08/19/04	03/22/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**3.1**	**10.9**	**24.3**	**31.1**	<1.0	**14.9**	**28.3**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	**0.52 J**	**3.3**	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX		**3.1**	**10.9**	**24.82**	**34.4**		**14.9**	**28.3**
PAH EPA 610								
Naphthalene	21	<5.3	<5.3	<4.8	<4.8	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-04**

Sample ID:		UST11150499C4	UST11150499C3	UST11150400C2	UST11150401C1	UST11150401C	UST1115-04-02A	UST1115-04-02C	UST1115-04-03A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/23/01	07/27/01	02/02/02	08/07/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**190 B**	**26**	<1.0	**660**	**210**	**22.6**	**31.5**	**128**
Ethylbenzene	550	**43**	**1.9**	<1.0	**140**	**76**	**2.1**	**2.7**	**13.7**
Toluene	1000	**24 B**	**1**	<1.0	**7.6 J**	<10	<1.0	<1.0	**3.8**
Xylenes (total)	530	**91 B**	**5.5**	<1.0	**66**	**65**	**1.7 J**	**3.1**	<6.0
Total BTEX		**348**	**36.5**		**873.6**	**351**	**26.4**	**37.3**	**145.5**
PAH EPA 610									
Naphthalene	21	**23**	<2.1	<2.0	**32**	**54**	<5.5	**7.3**	**21.2**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-04**

Sample ID:		MW-1115-04-03C	MW-1115-04-04A	MW-1115-04-04C	UST1115-MW04	UST1115-MW04	UST1115-MW04	UST1115-MW04
Date Sampled:		08/19/03	02/25/04	08/19/04	03/10/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	<1.0	**16.8**	**31.5**	**42.7**	**0.63 J**	**9.0**	**56.6**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	**1.1**	**0.55 J**	**1.6**	<1.0	**1.1**
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX			**16.8**	**32.6**	**43.25**	**2.23**	**9.0**	**57.7**
PAH EPA 610								
Naphthalene	21	<5.5	<5.4	<4.8	<4.8	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-13**

Sample ID:		UST11151399C4	UST11151399C3	UST11151300C2	UST11151301C1	UST11151301C	UST1115-13-02A	UST1115-13-02C	UST1115-13-03A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02	08/12/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**15000 B**	**230**	**13000**	**6400**	**2300**	**296**	**95.5**	**872**
Ethylbenzene	550	**930**	**30**	**770**	**460**	**230**	**40.9**	**40.1**	**62.2**
Toluene	1000	**220 JB**	**5.0**	<200	**39 J**	**8.7 J**	**2.7**	<5.0	**28.3**
Xylenes (total)	530	**1500 B**	**56**	**910**	**210**	**56**	**16.5**	**16.8**	**21.5 J**
Total BTEX		**17650**	**321**	**14680**	**7109**	**2594.7**	**358.1**	**152.4**	**984**
PAH EPA 610									
Naphthalene	21	**660**	**18**	**420**	**330**	**230**	**79.4**	**197**	**152**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-13**

Sample ID:		MW-1115-13-03C	MW-1115-13-04A	MW-1115-13-04C	UST1115-MW13	UST1115-MW13	UST1115-MW13	UST1115-MW13
Date Sampled:		08/20/03	02/24/04	08/25/04	03/22/05	08/17/05	01/23/06	10/03/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**340**	**228**	**202**	**62.1**	**61.6**	**263**	**276**
Ethylbenzene	550	**72.4**	**53**	**47.6**	**36.3**	**31.2**	**32**	**26.6**
Toluene	1000	<2.0	<5.0	**11.8**	**0.67 J**	<10	**13.5**	**25.7**
Xylenes (total)	530	**16.6**	**11.7 J**	**16.3**	**11.8**	<30	**23.5**	**32**
Total BTEX		**429**	**292.7**	**277.7**	**130.87**	**92.8**	**332**	**362.3**
PAH EPA 610								
Naphthalene	21	**155**	**151**	**173**	**129**	**108**	**58.7**	**68.1**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-17**

Sample ID:		UST11151799C4	UST11151799C3	UST11151700C2	UST11151701C1	UST11151701C	UST1115-17-02A	UST1115-17-02C	UST1115-17-03A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/23/01	07/27/01	02/02/02	08/07/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**9200**	**9200**	**8900**	**7900**	**7400**	**6670**	**7770**	**3490**
Ethylbenzene	550	**830**	**100**	**780**	**750**	**840**	**973**	**76.3**	**196**
Toluene	1000	**140**	**100**	<150	**56 J**	<400	<100	**10**	<50
Xylenes (total)	530	**1700**	**100**	**880**	**400**	**670**	**1050**	**99.4**	<150
Total BTEX		**11870**	**9500**	**10560**	**9106**	**8910**	**10693**	**7955.7**	**3686**
PAH EPA 610									
Naphthalene	21	**530**	**340**	**360**	**340**	**570**	**31.2**	**250**	**270**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-17**

Sample ID:		MW-1115-17-03C	MW-1115-17-04A	MW-1115-17-04C	UST1115-MW17	UST1115-MW17	UST1115-MW17	UST1115-MW17
Date Sampled:		08/19/03	02/25/04	08/19/04	03/10/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**84.3**	**36.9**	**34.1**	**72.3**	**9.5**	**39.3**	**166**
Ethylbenzene	550	**63.4**	**3.5**	<2.0	<5.0	<1.0	**0.86 J**	**4.2**
Toluene	1000	<2.0	**2.5**	**1.4 J**	<5.0	<1.0	**1.1**	**2.4**
Xylenes (total)	530	<5.0	<6.0	**2.9 J**	<15	**2.4 J**	<3.0	4
Total BTEX		**147.7**	**42.9**	**38.4**	**72.3**	**11.9**	**41.26**	**178.6**
PAH EPA 610								
Naphthalene	21	**332**	**89.8**	**10.5**	**4.8**	**4.4**	**3.1**	**2.4**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-18**

Sample ID:		UST11151899C4	UST11151899C3	UST11151800C2	UST11151801C1	UST11151801C	UST1115-18-02A	UST1115-18-02C	UST1115-18-03A
Date Sampled:		01/06/99	08/12/99	05/26/00	01/22/01	07/29/01	02/02/02	08/07/02	02/20/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**16000**	**990**	**1200**	**420**	**3.1**	**30.2**	**33.8**	NS
Ethylbenzene	550	**850**	**63**	**53**	**21**	**0.51 J**	**1.3**	**2.1**	NS
Toluene	1000	**2100**	**17**	<20	**2.3 J**	**2.1**	**1.2**	**1.5**	NS
Xylenes (total)	530	**1800**	**70**	<20	**6.9**	**1.4**	<3.0	**5.1**	NS
Total BTEX		**20750**	**1140**	**1253**	**450.2**	**7.11**	**32.7**	**42.5**	
PAH EPA 610									
Naphthalene	21	**190**	<2.3	**6.7**	<2.0	<2.0	<5.0	<5.0	NS
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-18**

Sample ID:		MW-1115-18-03C	MW-1115-18-04A	MW-1115-18-04A	UST1115-MW18	UST1115-MW18	UST1115-MW18	UST1115-MW18
Date Sampled:		08/20/03	03/02/04	08/19/04	03/22/05	08/17/05	01/25/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**215**	**2630**	NS	**9.6 J**	NS	<1.0	NS
Ethylbenzene	550	**4.1**	**76.8**	NS	**4.6**	NS	<1.0	NS
Toluene	1000	**1.4 J**	**5.6**	NS	**2.0**	NS	<1.0	NS
Xylenes (total)	530	**4.6 J**	**15.7**	NS	**9.6**	NS	<3.0	NS
Total BTEX		**225.1**	**2728.1**		**25.8**			
PAH EPA 610								
Naphthalene	21	**2.7 J**	**19.8**	NS	<4.8	NS	<2.0	NS
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-21**

Sample ID:		UST11152199C4	UST11152199C3	UST11152100C2	UST11152101C1	UST11152101C	UST1115-21-02A	UST1115-21-02C	UST1115-21-03A
Date Sampled:		01/06/99	08/12/99 & 08/26/99	05/26/00	01/24/01	07/29/01	02/02/02	08/06/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**2000**	**1600**	**2200**	**1200**	**960**	**1920**	**620**	**727**
Ethylbenzene	550	<50	<20	<25	**55**	**5.2 J**	<5.0	<1.0	**11.7**
Toluene	1000	**21 J**	<20	<25	**4.4 J**	<20	<5.0	<1.0	**7.8 J**
Xylenes (total)	530	**27 J**	<20	<25	**21**	<20	<15	<3.0	<3.0
Total BTEX		**2048**	**1600**	**2200**	**1280.4**	**965.2**	**1920**	**620**	**746.5**
PAH EPA 610									
Naphthalene	21	**15**	**10**	**8.6**	**18**	<2.0	**8.1**	**4.0 J**	**19.9**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

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Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-21**

Sample ID:		MW-1115-21-03C	MW-1115-21-04A	MW-1115-21-04C	UST1115-MW21	UST1115-MW21	UST1115-MW21	UST1115-MW21
Date Sampled:		08/19/03	02/25/04	08/19/04	03/10/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**485**	**607**	**521**	**338**	**282**	**175**	**197**
Ethylbenzene	550	<1.0	<5.0	<10	<1.0	<5.0	<1.0	<2.0
Toluene	1000	<1.0	<5.0	<10	<1.0	<5.0	<1.0	**1.1 J**
Xylenes (total)	530	<3.0	<15	<30	<3.0	<15	<3.0	<6.0
Total BTEX		**485**	**607**	**521**	**338**	**282**	**175**	**198.1**
PAH EPA 610								
Naphthalene	21	**7.0**	**3.9 J**	**5.3**	**2.9 J**	**2.5**	**2.1**	**1.8 J**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-22**

Sample ID:		UST11152299C4	UST11152299C3	UST11152200C2	UST11152201C1	UST11152201C	UST1115-22-02A	UST1115-22-02C	UST1115-22-02C (Resample)
Date Sampled:		01/07/99	08/12/99 & 08/26/99	05/26/00	01/23/01	07/27/01	02/02/02	08/07/02	09/04/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**460**	**1100**	**900**	**940**	**700**	**1250**	<1.0	**251**
Ethylbenzene	550	<5.0	<20	<10	**5.6 J**	<40	**3.4**	<1.0	<5.0
Toluene	1000	**1.4 J**	<20	<10	**4.2 J**	<40	**3.5**	<1.0	<5.0
Xylenes (total)	530	<5.0	**29**	<10	<10	<40	<3.0	<3.0	<15
Total BTEX		**461.4**	**1129**	**900**	**949.8**	**700**	**1256.9**		**251**
PAH EPA 610									
Naphthalene	21	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.1	NA
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

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CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-22**

Sample ID:		UST1115-22-03A	MW-1115-22-03C	MW-1115-22-04A	MW-1115-22-04C	UST1115-MW22	UST1115-MW22	UST1115-MW22	UST1115-MW22
Date Sampled:		02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**1320**	**1930**	**2230**	**3270**	**2850**	**3380**	**1830**	**3860**
Ethylbenzene	550	<20	**4.4**	<50	<50	<20	<50	**6.0**	<20
Toluene	1000	**21**	<10	<50	<50	**20.3**	**32.4 J**	**16.4**	**35.7**
Xylenes (total)	530	<60	**1.0 J**	<150	<150	<60	<150	**14.4**	**32.6 J**
Total BTEX		**1341**	**1935.4**	**2230**	**3270**	**2870.3**	**3412.4**	**1866.8**	**3948.3**
PAH EPA 610									
Naphthalene	21	<5.1	**4.8 J**	**3.2 J**	**5.7**	**4.0 J**	**2.8**	**2.9**	**3.1**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-23**

Sample ID:		UST11152399C4	UST11152399C3	UST11152300C2	UST11152301C1	UST11152301C	UST1115-23-02A	UST1115-23-02C	UST1115-23-03A
Date Sampled:		01/06/99 & 01/19/99	08/12/99	05/26/00	01/22/01	07/29/01	02/02/02	08/05/02	02/18/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**15000**	**5000**	**270**	**4.7 J**	**13**	**22**	**17.8**	**0.98 J**
Ethylbenzene	550	**500**	**140**	**34**	**4.9 J**	**1.1**	<5.0	**1.7**	<5.0
Toluene	1000	**5700**	**180**	<25	**1.1 J**	**2.8**	<5.0	**1.3**	<1.0
Xylenes (total)	530	**1900**	**420**	**40**	**5.6**	**2.2**	<15	**7.3**	<15
Total BTEX		**23100**	**5740**	**344**	**16.3**	**19.1**	**22**	**28.1**	**0.98**
PAH EPA 610									
Naphthalene	21	**11**	<2.1	<2.0	<2.0	<2.0	<5.5	<5.3	<5.1
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-23**

Sample ID:		MW-1115-23-03C	MW-1115-23-04A	MW-1115-23-04C	UST1115-MW23	UST1115-MW23	UST1115-MW23	UST1115-MW23
Date Sampled:		08/20/03	02/21/04	08/19/04	03/24/05	08/19/05	01/23/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**260**	**703**	**2720**	**3120**	**5240**	**7230**	**1910**
Ethylbenzene	550	**5.2**	**14.8 J**	**38.6**	**54.3**	**91.7 J**	**124**	**49.6**
Toluene	1000	**2.2**	**98.7**	**267**	**346**	**653**	**441**	**198**
Xylenes (total)	530	**7.6**	**35.9 J**	**112**	**208**	**315**	**318**	**96.4**
Total BTEX		**275**	**852.4**	**3137.6**	**3728.3**	**6299.7**	**8113**	**2254**
PAH EPA 610								
Naphthalene	21	<5.4	<5.3	<4.8	<4.8	**1.7 J**	**2.8**	**1.0 J**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-24**

Sample ID:		UST11152499C4	UST11152499C3	UST11152400C2	UST11152401C1	UST11152401C	UST1115-24-02A	UST1115-24-02C	UST1115-24-03A
Date Sampled:		01/06/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02	08/06/02	02/19/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**1800**	**2400**	**3200**	**2700**	**2900**	**2460**	**3060**	**4120**
Ethylbenzene	550	**22 J**	<40	<40	**49**	**13 J**	**5.2**	**1.5**	<50
Toluene	1000	**55**	<40	<40	**32 J**	<50	<5.0	**0.76 J**	<50
Xylenes (total)	530	**64**	<40	<40	**89**	<50	<15	**1.0 J**	<150
Total BTEX		**1941**	**2400**	**3200**	**2870**	**2913**	**2485.2**	**3063.26**	**4120**
PAH EPA 610									
Naphthalene	21	**9.7**	<2.0	**6.1**	**30**	<2.0	<5.0	<5.0	**23.6**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-24**

Sample ID:		MW-1115-24-03C	MW-1115-24-04A	MW-1115-24-04C	UST1115-MW24	UST1115-MW24	UST1115-MW24	UST1115-MW24
Date Sampled:		08/19/03	02/25/04	08/19/04	03/10/05	08/18/05	01/20/06	10/02/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**3990**	**4100**	**3630**	**1030**	**3120**	**1750**	**2250**
Ethylbenzene	550	<50	<50	<50	<20	<50	<1.0	<50
Toluene	1000	<50	<50	<50	**23.2**	<50	**0.69 J**	<50
Xylenes (total)	530	<150	<150	<150	<60	<150	<3.0	<150
Total BTEX		**3990**	**4100**	**3630**	**1053.2**	**3120**	**1750.69**	**2250**
PAH EPA 610								
Naphthalene	21	**6.7**	**4.2 J**	**3.0 J**	<4.8	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-25**

Sample ID:		UST11152599C4	UST11152599C3	UST11152500C2	UST11152501C1	UST11152501C	UST1115-25-02A	UST1115-25-02C	UST1115-25-02C (Resample)
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02	08/12/02	09/04/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**63 B**	**240**	**650**	**1100**	**29**	**3.1**	**1850**	**1660**
Ethylbenzene	550	**20**	**39**	**29**	**53**	**15**	**0.57 J**	<20	<20
Toluene	1000	**13 B**	**6.4**	<10	**15**	**3.1**	<1.0	**37.1**	**47.9**
Xylenes (total)	530	**44 B**	**73**	**32**	**33**	**7.9**	<3.0	<60	<60
Total BTEX		**140**	**358.4**	**711**	**1201**	**55**	**3.67**	**1887.1**	**1707.9**
PAH EPA 610									
Naphthalene	21	**16**	<2.1	**10**	**39**	**11**	<5.0	<5.2	NA
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

NW Shallow Well **MW-1115-25**

Sample ID:		UST1115-25-03A	MW-1115-25-03C	MW-1115-25-04A	MW-1115-25-04C	UST1115-MW25	UST1115-MW25	UST1115-MW25	UST1115-MW25
Date Sampled:		02/19/03	08/22/03	02/24/04	08/25/04	03/22/05	08/17/05	01/23/06	10/03/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**2840**	**3300**	**3580**	**5960**	**5170**	**4990**	**5000**	**5160**
Ethylbenzene	550	<50	**8.2**	<50	**40.4 J**	**47.3 J**	**58.3**	**61.7 J**	**54.6 J**
Toluene	1000	**150**	**292**	**362**	**650**	**418**	**678**	**225**	**285**
Xylenes (total)	530	<150	**15.3**	**63.2 J**	**120 J**	**157**	**216**	**256 J**	**174 J**
Total BTEX		**2990**	**3615.5**	**4005.2**	**6770.4**	**5792.3**	**5942.3**	**5542.7**	**5673.6**
PAH EPA 610									
Naphthalene	21	**10**	<5.2	<5.0	<4.8	**3.3 J**	**1.1 J**	<1.9	<1.9
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-1**

Sample ID:		CLJ-0011-005-MW-1	CLJ-0011-022-MW-1	CLJ-0011-039-MW-1	CLJ-0011-60	HPFF-MW01-01C	HPFF-MW01-02A	HPFF-MW01-02C	HPFF-MW01-03A
Date Sampled:		01/27/99	10/18/99	07/26/00	01/31/01	07/22/01	02/09/02	08/13/02	02/17/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**16000**	**9400**	**11000**	**8300**	**7700**	**3280**	**5710**	**5380**
Ethylbenzene	550	**6100**	**2400**	**4500**	**2700**	**2600**	**1460**	**4720**	**2280**
Toluene	1000	**41000**	**24000**	**29000**	**25000**	**25000**	**14100**	**22200**	**22000**
Xylenes (total)	530	**26000**	**10000**	**17000**	**12000**	**11000**	**7370**	**19700**	**11600**
Total BTEX		**89100**	**45800**	**61500**	**48000**	**46300**	**26210**	**52330**	**41260**
PAH EPA 610									
Naphthalene	21	**760**	**410**	**280**	**450**	**330**	**584**	**358**	**415**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-1**

Sample ID:		MW-1-03C	MW-1-04A	MW-1-04C	USTHPFF-MW01	USTHPFF-MW01	USTHPFF-MW01	USTHPFF-MW01
Date Sampled:		08/27/03	02/14/04	08/20/04	04/13/05	08/31/05	01/23/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**5670**	**4970**	**3180**	**4480**	**4140**	**2850**	**2790**
Ethylbenzene	550	**3950**	**3580**	**2620**	**3670**	**3850**	**2850**	**1980**
Toluene	1000	**26200**	**25500**	**20700**	**22200**	**24400**	**20300**	**15000**
Xylenes (total)	530	**17200**	**16500**	**12300**	**15300**	**17200**	**13100**	**9330**
Total BTEX		**54020**	**50550**	**38800**	**45650**	**49590**	**39110**	**29100**
PAH EPA 610								
Naphthalene	21	**417**	**473**	**586**	**355**	**542**	**404**	**384**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-10R**

Sample ID:		CLJ-0011-012-MW-10R	CLJ-0011-029-MW-10R	CLJ-0011-046-MW-10R	CLJ-0011-68	HPFF-MW10R-01C	HPFF-MW10R-02A	HPFF-MW10R-02C	HPFF-MW10R-03A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02	08/13/02	02/17/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**5200**	**2200**	**3300**	**5200**	**5800**	**4410**	**3780**	**2340**
Ethylbenzene	550	**1900**	**610**	**770**	**1100**	**1200**	**1120**	**946**	**352**
Toluene	1000	**15000**	**7500**	**7900**	**5900**	**5800**	**5530**	**5790**	**2380**
Xylenes (total)	530	**8300**	**5000**	**3300**	**5300**	**6100**	**6040**	**6190**	**2280**
Total BTEX		**30400**	**15310**	**15270**	**17500**	**18900**	**17100**	**16706**	**7332**
PAH EPA 610									
Naphthalene	21	**860**	**400**	**150**	**210**	**180**	**286**	**228**	**55.5**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **MW-10R**

Sample ID:		MW-10R-03C	MW-10R-04A	MW-10R-04C	USTHPFF-MW10R	USTHPFF-MW10R	USTHPFF-MW10R	USTHPFF-MW10R
Date Sampled:		08/27/03	02/14/04	09/08/04	04/13/05	08/27/05	01/24/06	10/04/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**2630**	**197**	**480**	**487**	**1060**	**1770**	**1280**
Ethylbenzene	550	**643**	**175**	**602**	**108**	**319**	**631**	**680**
Toluene	1000	**5070**	**650**	**2210**	**288**	**929**	**2190**	**1990**
Xylenes (total)	530	**4830**	**661**	**2590**	**524**	**1510**	**2940**	**2900**
Total BTEX		**13573**	**1883**	**5882**	**1407**	**3818**	**7531**	**6820**
PAH EPA 610								
Naphthalene	21	**212**	**50.9**	**178**	**34.5**	**53.6**	**99.6**	**132**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-11**

Sample ID:		CLJ-0011-002-MW-11	CLJ-0011-019-MW-11	CLJ-0011-036-MW-11	CLJ-0011-59	HPFF-MW11-02A	HPFF-MW11-02C	HPFF-MW11-03A
Date Sampled:		01/27/99	10/18/99	07/26/00	02/01/01	02/09/02	08/13/02	02/18/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**1.2**	**40**	**2500**	**480**	**64.4**	**26.2**	**274**
Ethylbenzene	550	<1.0	**16**	**430**	**140**	**11**	**9.5**	**98.3**
Toluene	1000	<1.0	**140**	**4300**	**450**	**71**	**87.1**	**1160**
Xylenes (total)	530	<1.0	**94**	**3000**	**580**	**31**	**28**	**501**
Total BTEX		**1.2**	**290**	**10230**	**1650**	**177.4**	**150.8**	**2033.3**
PAH EPA 610								
Naphthalene	21	<2.0	**2.4**	<2.0	<2.0	<5.0	<5.2	**7.5**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-11**

Sample ID:		MW-11-03C	MW-11-04A	MW-11-04C	USTHPFF-MW11	USTHPFF-MW11	USTHPFF-MW11	USTHPFF-MW11
Date Sampled:		08/22/03	02/14/04	08/27/04	04/05/05	08/27/05	01/25/06	10/09/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**957**	**6.5**	NS	**5.2**	**1.3**	**53.8**	**3.7**
Ethylbenzene	550	**19.5**	**1.1**	NS	<1.0	<1.0	**2.2**	<1.0
Toluene	1000	**319**	<1.0	NS	<1.0	<1.0	**32.6**	**0.95 J**
Xylenes (total)	530	**378**	**1.2 J**	NS	<3.0	<3.0	**288**	**36**
Total BTEX		**1673.5**	**8.8**		**5.2**	**1.3**	**376.4**	**40.65**
PAH EPA 610								
Naphthalene	21	<5.4	<5.7	NS	<4.8	<1.9	<2.1	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-17A**

Sample ID:		CLJ-0011-010-MW-17A	CLJ-0011-027-MW-17A	CLJ-0011-044-MW-17A	CLJ-0011-66	HPFF-MW17-01C	HPFF-MW17-02A	HPFF-MW17-02C	HPFF-MW17-03A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02	08/13/02	02/21/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**7700**	**5400**	**6700**	**16000**	**12000**	**12200**	**6140**	**5720**
Ethylbenzene	550	**23000**	**2400**	**2500**	**620**	<1000	**675**	**2910**	**3260**
Toluene	1000	**45000**	**25000**	**25000**	**13000**	**7500**	**14000**	**27200**	**22600**
Xylenes (total)	530	**84000**	**9600**	**10000**	**4200**	**2600**	**4100**	**9950**	**11300**
Total BTEX		**160700**	**42600**	**44200**	**33820**	**22100**	**30975**	**46200**	**43080**
PAH EPA 610									
Naphthalene	21	**1300**	**420**	**420**	**230**	**130**	**258**	**364**	**416**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **MW-17A**

Sample ID:		MW-17A-03C	MW-17A-04A	MW-17A-04C	USTHPFF-MW17A	USTHPFF-MW17A	USTHPFF-MW17A	USTHPFF-MW17A
Date Sampled:		08/25/03	02/20/04	09/13/04	04/13/05	08/31/05	01/24/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**6830**	**5520**	**4910**	**6500**	**7380**	**5630**	**4480**
Ethylbenzene	550	**3860**	**2690**	**2070**	**3300**	**3270**	**2260**	**2240**
Toluene	1000	**27200**	**24800**	**20000**	**22300**	**26200**	**22800**	**16400**
Xylenes (total)	530	**13900**	**10206**	**7990**	**12000**	**12300**	**9200**	**8260**
Total BTEX		**51790**	**43210**	**34970**	**44100**	**49150**	**39890**	**31400**
PAH EPA 610								
Naphthalene	21	**415**	**432**	**402**	**419**	**373**	**302**	**372**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **MW-18**

Sample ID:		CLJ-0011-006-MW-18	CLJ-0011-023-MW-18	CLJ-0011-040-MW-18	CLJ-0011-62	HPFF-MW18-01C	HPFF-MW18-02A	HPFF-MW18-02C	HPFF-MW18-03A
Date Sampled:		01/28/99	10/18/99	07/26/00	01/31/01	07/22/01	02/09/02	08/14/02	02/18/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**28000**	**15000**	**16000**	**12000**	**11000**	**16990**	**18200**	**16900**
Ethylbenzene	550	**12000**	**1400**	**1400**	**1300**	**1100**	**1830**	**1520**	**1370**
Toluene	1000	**65000**	**25000**	**29000**	**24000**	**22000**	**36100**	**30300**	**30090**
Xylenes (total)	530	**46000**	**7300**	**8000**	**8000**	**7400**	**10700**	**6790**	**7670**
Total BTEX		**151000**	**48700**	**54400**	**45300**	**41500**	**67530**	**58810**	**55940**
PAH EPA 610									
Naphthalene	21	**1300**	**460**	**330**	**550**	**410**	**685**	**519**	**464**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **MW-18**

Sample ID:		MW-18-03C	MW-18-04A	MW-18-04C	USTHPFF-MW18	USTHPFF-MW18	USTHPFF-MW18	USTHPFF-MW18
Date Sampled:		08/27/03	02/14/04	08/20/04	04/13/05	08/31/05	01/23/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**5440**	**12900**	**7040**	**12800**	**12300**	**12400**	**10300**
Ethylbenzene	550	**1930**	**1800**	**1950**	**1870**	**1680**	**1220**	**1090**
Toluene	1000	**15100**	**27100**	**17800**	**27800**	**25400**	**26100**	**20400**
Xylenes (total)	530	**11700**	**11000**	**13700**	**11100**	**10800**	**8650**	**8640**
Total BTEX		**34170**	**52800**	**40490**	**53570**	**52980**	**48370**	**38630**
PAH EPA 610								
Naphthalene	21	**768**	**858**	**700**	**562**	**497**	**473**	**465**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-1**

Sample ID:		CLJ-0011-004-HPFF-1	CLJ-0011-021-HPFF-1	CLJ-0011-038-HPFF-1	CLJ-0011-56	HPFF-HPFF01-02C	HPFF-HPFF01-03A
Date Sampled:		01/27/99	10/18/99	07/20/00	02/01/01	08/13/02	02/21/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	<1.0	**5.4**	**2.2**	**42**	<1.0	**32.3**
Ethylbenzene	550	<1.0	**13**	**3.5**	**16**	<1.0	**2.4**
Toluene	1000	<1.0	**42**	**13**	**120**	<1.0	**4.5**
Xylenes (total)	530	<1.0	**40**	**14**	**81**	<3.0	**2.4 J**
Total BTEX			**100.4**	**32.7**	**259**		**41.6**
PAH EPA 610							
Naphthalene	21	<2.0	<2.0	<2.0	**2.3**	<5.2	**6.1**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-1**

Sample ID:		HPFF-1-03C	HPFF-1-04A	HPFF-1-04C	USTHPFFC-MW01	USTHPFFC-MW01	USTHPFFC-MW01	USTHPFFC-MW01
Date Sampled:		08/22/03	02/13/04	08/27/04	04/05/05	08/20/05	01/24/06	10/04/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	<1.0	<1.0	**1.8**	<1.0	<1.0	<1.0	**25.3**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.8**
Toluene	1000	<1.0	<1.0	**0.88 J**	<1.0	<1.0	<1.0	**6.6**
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**4.0**
Total BTEX				**4.68**				**41.7**
PAH EPA 610								
Naphthalene	21	<5.2	<5.3	<4.8	<4.8	<1.9	<2.0	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-5**

Sample ID:		HPFF-HPFF05-02C	HPFF-HPFF05-03A	HPFF-5-03C	HPFF-5-04A	HPFF-5-04C	USTHPFFC-MW05	USTHPFFC-MW05	USTHPFFC-MW05	USTHPFFC-MW05
Date Sampled:		08/14/02	02/21/03	08/25/03	02/13/04	08/27/04	04/05/05	08/22/05	01/24/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602										
Benzene	1	**0.7 J**	**674**	**44.2**	**8.4**	**4.1**	<1.0	<1.0	<1.0	**156**
Ethylbenzene	550	**0.53 J**	**33.6**	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	**50.4**
Toluene	1000	<1.0	**4.6**	**13.4**	<1.0	**0.92 J**	<1.0	<1.0	<1.0	**485**
Xylenes (total)	530	**4.6**	**9.9**	**7.4**	<3.0	<3.0	<3.0	<3.0	<3.0	**217**
Total BTEX		**5.83**	**722.1**	**70.2**	**8.4**	**5.02**				**908.4**
PAH EPA 610										
Naphthalene	21	<5.1	**6.4**	<5.3	<5.3	<4.8	<4.8	<1.9	<1.9	**10**
		Bold type indicates detectable concentrations.								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-7**

Sample ID:		CLJ-0011-003-HPFF-7	CLJ-0011-020-HPFF-7	CLJ-0011-037-HPFF-7	CLJ-0011-55	HPFF-HPFF07-01C	HPFF-HPFF07-02A	HPFF-HPFF07-02C	HPFF-HPFF07-03A
Date Sampled:		01/27/99	10/18/99	07/20/00	02/01/01	07/22/01	02/09/02	08/12/02	02/21/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**75**	**63**	**23**	**13**	**4.2**	**24.9**	**1.6**	**9.5**
Ethylbenzene	550	**100**	**91**	**58**	**28**	**27**	**15.5**	**7.4**	**5.4**
Toluene	1000	**10**	**41**	**2.7**	**26**	<1.0	**36.4**	<1.0	**1.8**
Xylenes (total)	530	**36**	**41**	**4.4**	**28**	<1.0	**15**	<3.0	**1.2 J**
Total BTEX		**225**	**236**	**88.1**	**95**	**31.2**	**91.8**	**9**	**17.9**
PAH EPA 610									
Naphthalene	21	**3.5**	**6.6**	<2.0	**1.5 J**	<2.0	<5.0	**11**	**3.2 J**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-7**

Sample ID:		HPFF-7-03C	HPFF-7-04A	HPFF-7-04C	USTHPFFC-MW07	USTHPFFC-MW07	USTHPFFC-MW07	USTHPFFC-MW07
Date Sampled:		08/22/03	02/13/04	08/27/04	04/05/05	08/20/05	01/24/06	10/04/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**0.79 J**	<1.0	**1.5**	<1.0	<1.0	<1.0	**4.7**
Ethylbenzene	550	**1.1**	<1.0	**0.9 J**	**0.56 J**	<1.0	<1.0	**2.1**
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**1.2 J**
Total BTEX		**1.89**		**2.4**	**0.56**			**9.8**
PAH EPA 610								
Naphthalene	21	<5.8	<5.1	<4.8	<4.8	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-8**

Sample ID:		CLJ-0011-011-HPFF-8	CLJ-0011-028-HPFF-8	CLJ-0011-045-HPFF-8	CLJ-0011-67	HPFF-HPFF8-01C	HPFF-HPFF8-02A	HPFF-HPFF8-02C	HPFF-HPFF8-03A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02	08/13/02	02/21/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**1300**	**8000**	**7100**	**7700**	**10000**	**12300**	**14600**	**10900**
Ethylbenzene	550	<50	**730**	**480**	**540**	**550**	**714**	**903**	**878**
Toluene	1000	**170**	**1900**	**720**	**1100**	**1900**	**725**	**1190**	**2150**
Xylenes (total)	530	**160**	**1600**	**980**	**1100**	**1700**	**882**	**2020**	**2810**
Total BTEX		**1630**	**12430**	**9280**	**10440**	**14190**	**14621**	**18713**	**16538**
PAH EPA 610									
Naphthalene	21	<2.0	**140**	**110**	**130**	**130**	**10**	**161**	**173**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **HPFF-8**

Sample ID:		HPFF-8-03C	HPFF-8-04A	HPFF-8-04C	USTHPFFC-MW08	USTHPFFC-MW08	USTHPFFC-MW08	USTHPFFC-MW08
Date Sampled:		08/25/03	02/20/04	08/31/04	04/13/05	08/31/05	01/24/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**7420**	**10200**	**11500**	**10600**	**7710**	**7480**	**4940**
Ethylbenzene	550	**740**	**609**	**627**	**659**	**349**	**331**	**303**
Toluene	1000	**1690**	**1230**	**1540**	**1680**	**145**	**327**	**765**
Xylenes (total)	530	**2130**	**1530**	**2130**	**2750**	**801**	**617**	**695**
Total BTEX		**11980**	**13569**	**15797**	**15889**	**9005**	**8755**	**6703**
PAH EPA 610								
Naphthalene	21	**184**	**164**	**171**	**165**	**80.9**	**87.7**	**95.7**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-9**

Sample ID:		HPFF-HPFF09-02C	HPFF-HPFF09-03A	HPFF-9-03C	HPFF-9-04A	HPFF-9-04C	USTHPFFC-MW09	USTHPFFC-MW09	USTHPFFC-MW09	USTHPFFC-MW09
Date Sampled:		08/14/02	02/21/03	08/22/03	02/13/04	08/27/04	04/05/05	08/22/05	01/24/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602										
Benzene	1	**10800**	**22600**	**4090**	**727**	**0.88 J**	**0.76 J**	<5.0	<1.0	**323**
Ethylbenzene	550	**621**	**363**	**96.4**	**23.2**	<1.0	**0.57 J**	<5.0	<2.0	**101**
Toluene	1000	<250	**62.4**	<5.0	<10	<1.0	**1.2**	<5.0	<1.0	**849**
Xylenes (total)	530	**1160**	**137 J**	**9.2 J**	<30	<3.0	**3.5**	<15	<3.0	**416**
Total BTEX		**12581**	**23162.4**	**4195.6**	**750.2**	**0.88**	**6.03**			**1689**
PAH EPA 610										
Naphthalene	21	**112**	**70.1**	**13.6**	<5.5	<4.9	<4.8	<1.9	<1.9	**17.4**
		Bold type indicates detectable concentrations.								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-11**

Sample ID:		HPFF-HPFF11-02C	HPFF-HPFF11-03A	HPFF-11-03C	HPFF-11-04A	HPFF-11-04C	USTHPFFC-MW11	USTHPFFC-MW11	USTHPFFC-MW11	USTHPFFC-MW11
Date Sampled:		08/13/02	02/21/03	08/25/03	02/20/04	08/31/04	04/13/05	08/20/05	01/24/06	12/01/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602										
Benzene	1	**389**	**459**	**348**	**114**	**89.6**	<1.0	**44.7**	**96.7**	**41.2**
Ethylbenzene	550	**52.1**	**63.6**	<5.0	<2.0	**2.6**	**0.64 J**	<1.0	**33.5**	<1.0
Toluene	1000	**84.5**	**560**	<5.0	<2.0	**0.56 J**	**0.68 J**	**0.83 J**	**471**	<1.0
Xylenes (total)	530	**110**	**187**	<15	<6.0	<3.0	<3.0	**2.9 J**	**133**	<3.0
Total BTEX		**1055.6**	**1319.6**	**348**	**114**	**92.76**	**1.32**	**48.43**	**734.2**	**41.2**
PAH EPA 610										
Naphthalene	21	**2.3 J**	**8.0**	<5.2	<5.3	<4.8	<4.9	<1.9	**3.9**	<1.9
		Bold type indicates detectable concentrations.								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-19**

Sample ID:		CLJ-0011-009-HPFF-19	CLJ-0011-026-HPFF-19	CLJ-0011-043-HPFF-19	CLJ-0011-65	HPFF-HPFF19-01C	HPFF-HPFF19-02A	HPFF-HPFF19-02C
Date Sampled:		01/28/99	10/15/99	07/26/00	01/31/01	07/22/01	02/09/02	08/13/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**28000**	**12000**	**17000**	**19000**	**13000**	**15000**	**16800**
Ethylbenzene	550	**3100**	**2000**	**2100**	**2000**	**1600**	**1750**	**1580**
Toluene	1000	**32000**	**23000**	**26000**	**23000**	**19000**	**20300**	**20500**
Xylenes (total)	530	**12000**	**7900**	**9600**	**9000**	**8100**	**9300**	**7360**
Total BTEX		**75100**	**44900**	**54700**	**53000**	**41700**	**46380**	**46340**
PAH EPA 610								
Naphthalene	21	**370**	**260**	**280**	**390**	**290**	**326**	**261**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS)						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **HPFF-19**

Sample ID:		HPFF-HPFF19-03A	HPFF-19-03C	HPFF-19-04A	HPFF-19-04C	USTHPFFC-MW19	USTHPFFC-MW19	USTHPFFC-MW19
Date Sampled:		02/18/03	08/27/03	02/14/04	09/08/04	04/18/05	01/24/06	10/06/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**16300**	**7760**	**11300**	**10900**	**3720**	**12100**	**1110**
Ethylbenzene	550	**1420**	**481**	**847**	**723**	**858**	**711**	**92.8**
Toluene	1000	**17800**	**10600**	**13800**	**12300**	**8230**	**9910**	**975**
Xylenes (total)	530	**6630**	**12800**	**10300**	**7660**	**4350**	**3920**	**615**
Total BTEX		**42150**	**31641**	**36247**	**31583**	**17158**	**26641**	**2792.8**
PAH EPA 610								
Naphthalene	21	**220**	**266**	**216**	**316**	**235**	**155**	N/A
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **HPFF-20**

Sample ID:		CLJ-0011-001-HPFF-20	CLJ-0011-018-HPFF-20	CLJ-0011-035-HPFF-20	CLJ-0011-54	HPFF-HPFF20-01C	HPFF-HPFF20-02A	HPFF-HPFF20-02C	HPFF-HPFF20-03A
Date Sampled:		01/27/99	10/15/99	07/20/00	02/01/01	07/22/01	02/09/02	08/14/02	02/18/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**2800**	**3400**	**4400**	**4700**	**2600**	**3070**	**1250**	**3280**
Ethylbenzene	550	**1000**	**500**	**770**	**430**	<400	**656**	**247**	**551**
Toluene	1000	**10000**	**8500**	**1100**	**9200**	**6400**	**11400**	**2090**	**7630**
Xylenes (total)	530	**3300**	**2200**	**3800**	**2900**	**2500**	**4570**	**613**	**2330**
Total BTEX		**16900**	**14700**	**9870**	**17230**	**11700**	**19696**	**4400**	**13791**
PAH EPA 610									
Naphthalene	21	**180**	**90**	**130**	**62**	**56**	**207**	**45.5**	**104**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **HPFF-20**

Sample ID:		HPFF-20-03C	HPFF-HPFF20-04A	HPFF-HPFF20-04C	USYHPFFC-MW20	USTHPFFC-MW20	USTHPFFC-MW20	USTHPFFC-MW20
Date Sampled:		08/27/03	02/20/04	09/08/04	04/18/05	08/31/05	01/24/06	10/04/06
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**6020**	**6430**	**3030**	**13200**	**1030**	**4050**	**453**
Ethylbenzene	550	**112**	**444**	**362**	**954**	**537**	**698**	**265**
Toluene	1000	**8790**	**9790**	**2770**	**13200**	**498**	**10600**	**130**
Xylenes (total)	530	**6770**	**6140**	**2920**	**7400**	**1810**	**3180**	**712**
Total BTEX		**21692**	**22804**	**9082**	**34754**	**3875**	**18528**	**1560**
PAH EPA 610								
Naphthalene	21	<5.1	**98.9**	**68.6**	**238**	**101**	**143**	**53.6**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **GW-32-2**

Sample ID:		CLJ-0011-007-GW-32-2	CLJ-0011-024-GW-32-2	CLJ-0011-041-GW-32-2	CLJ-0011-57	HPFF-78GW322-01C	HPFF-78GW322-02A
Date Sampled:		01/28/99	10/15/99	07/20/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**170**	<1.0	**8.5**	**39**	**1.9**	**228**
Ethylbenzene	550	**18**	<1.0	<1.0	**30**	**2.9**	<10
Toluene	1000	**190**	<1.0	**1.1**	**86**	**8**	**95.2**
Xylenes (total)	530	**94**	<1.0	**1.2**	**120**	**9.2**	**954**
Total BTEX		**472**		**11.2**	**275**	**22**	**1307.2**
PAH EPA 610							
Naphthalene	21	**5.2**	<2.0	<2.0	**2.4**	<2.0	**16**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **GW-32-2**

Sample ID:		HPFF-78GW322-02C	HPFF-78GW322-03A	GW-32-2-03C	GW-32-2-04A	GW-32-2-04C	IR78-GW32-2
Date Sampled:		08/14/02	02/21/03	08/25/03	02/23/04	09/13/04	04/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**13.1**	**109**	**176**	**325**	**321**	**604**
Ethylbenzene	550	**1.4**	**1.9**	<5.0	**16**	**37.4**	**15.4**
Toluene	1000	**15.5**	**1.7**	**3.5 J**	**43.9**	**149**	**48.4**
Xylenes (total)	530	**8.6**	**1.7 J**	<15	**55.7**	**178**	**110**
Total BTEX		**38.6**	**114.3**	**179.5**	**440.6**	**685.4**	**777.8**
PAH EPA 610							
Naphthalene	21	<5.2	<5.1	<5.1	**2.1 J**	**6.7**	**6.7**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #119909

Analytical Data Summary

SE Shallow Well **GW-32-3**

Sample ID:		CLJ-0011-008-GW-32-3	CLJ-0011-025-GW-32-3	CLJ-0011-042-GW-32-3	CLJ-0011-58	HPFF-78GW323-01C	HPFF-78GW323-02A
Date Sampled:		01/28/99	10/15/99	07/19/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**84**	<1.0	**25**	**7.3**	**96**	**2.7**
Ethylbenzene	550	**5.6**	<1.0	**110**	**31**	<10	<1.0
Toluene	1000	**120**	<1.0	**310**	**82**	<10	**2.2**
Xylenes (total)	530	**35**	<1.0	**420**	**120**	<10	**4.1**
Total BTEX		**244.6**		**865**	**240.3**	**98**	**9**
PAH EPA 610							
Naphthalene	21	**2.7**	<2.0	**12**	**3.4**	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **GW-32-3**

Sample ID:		HPFF-78GW323-02C	HPFF-78GW323-03A	GW-32-3-03C	GW-32-3-04A	GW-32-3-04C	IR78-GW32-3
Date Sampled:		08/14/02	02/21/03	08/26/03	02/23/04	09/09/04	04/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**124**	**7.1**	**0.64 J**	**20.9**	**28.9**	**1.2**
Ethylbenzene	550	**14**	**1.3**	**1.4**	**59.8**	**8.7**	**1.4**
Toluene	1000	**88.7**	**1.2**	**2.4**	**183**	**60.6**	**5.5**
Xylenes (total)	530	**153**	<3.0	**10.5**	**255**	**64**	**20.5**
Total BTEX		**379.7**	**9.6**	**14.94**	**518.7**	**162.2**	**35.6**
PAH EPA 610							
Naphthalene	21	**3.3 J**	**2.7 J**	<5.5	**8.7**	**2.4**	<4.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/6/2007
Samples analyzed by STL or Accutest

APPENDIX C

LABORATORY GROUNDWATER ANALYTICAL REPORTS, NORTHWEST COMPOUND

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/22/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-NW

117407

Accutest Job Number: F37989

Sampling Date: 01/20/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 54

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006
50
YEARS OF EXCELLENCE
Accutest Laboratories

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

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Sample Summary

Shaw E & I, Inc.

Job No: F37989

Camp Lejeune-NW
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F37989-1	01/20/06	09:45	LL	01/21/06	AQ	Ground Water	UST1115-MW24
F37989-2	01/20/06	10:42	LL	01/21/06	AQ	Ground Water	UST1115-MW21
F37989-3	01/20/06	11:40	LL	01/21/06	AQ	Ground Water	UST1115-MW02
F37989-4	01/20/06	12:25	LL	01/21/06	AQ	Ground Water	UST1115-MW22
F37989-5	01/20/06	13:15	LL	01/21/06	AQ	Ground Water	UST1115-MW17
F37989-6	01/20/06	14:27	LL	01/21/06	AQ	Ground Water	UST1115-MW04
F37989-7	01/20/06	00:00	LL	01/21/06	AQ	Trip Blank Water	TRIPBLANK012006

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F37989-1	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011028.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2	QQ011255.D	20	02/01/06	AB	n/a	n/a	GQQ446
Run #3 [a]	QQ011305.D	50	02/02/06	AB	n/a	n/a	GQQ448

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1750 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.5	1.0	0.50	ug/l	
108-88-3	Toluene	0.69	1.0	0.50	ug/l	J
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	93%	102%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	155% [c]	110%	95%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 3
(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F37989-1	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021165.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	76.6	0.50	0.30	ug/l	
74-84-0	Ethane	3.56	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F37989-1	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP010808.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
92-94-4	p-Terphenyl	89%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F37989-1	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/21/06 14:16	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/21/06 14:16	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/21/06 14:16	MP	EPA 300/SW846 9056
Sulfate [b]	328	2.0	mg/l	1	01/21/06 14:16	MP	EPA 300/SW846 9056
Total Organic Carbon	7.0	1.0	mg/l	1	01/24/06 11:00	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Estimated value, above calibration range.

RL = Reporting Limit

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F37989-2	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011029.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2 [a]	QQ011254.D	2	02/01/06	AB	n/a	n/a	GQQ446

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	175 [b]	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	96%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	95%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F37989-2	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021166.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	7.52	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F37989-2	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP010809.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.1	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	87%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F37989-2	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.12	0.10	mg/l	1	01/21/06 14:33	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/21/06 14:33	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/21/06 14:33	MP	EPA 300/SW846 9056
Sulfate	26.9	2.0	mg/l	1	01/21/06 14:33	MP	EPA 300/SW846 9056
Total Organic Carbon	<1.0	1.0	mg/l	1	01/24/06 11:24	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F37989-3	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011034.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	14.9	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		71-130%
98-08-8	aaa-Trifluorotoluene	101%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F37989-3	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021167.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.44	0.50	0.30	ug/l	J
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F37989-3	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP010814.D	1	01/26/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F37989-3	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.22	0.10	mg/l	1	01/21/06 14:51	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.22	0.20	mg/l	1	01/21/06 14:51	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/21/06 14:51	MP	EPA 300/SW846 9056
Sulfate	36.0	2.0	mg/l	1	01/21/06 14:51	MP	EPA 300/SW846 9056
Total Organic Carbon	<1.0	1.0	mg/l	1	01/24/06 11:48	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F37989-4	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011035.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2 [a]	QQ011256.D	20	02/01/06	AB	n/a	n/a	GQQ446

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1830 [b]	20	10	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.58	1.0	0.50	ug/l	J
541-73-1	1,3-Dichlorobenzene	0.88	1.0	0.50	ug/l	J
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.0	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	16.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	14.4	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	102%	71-130%
98-08-8	aaa-Trifluorotoluene	161% [c]	102%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2
(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F37989-4	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021168.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	105	0.50	0.30	ug/l	
74-84-0	Ethane	30.3	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F37989-4	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP010815.D	1	01/26/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.9	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F37989-4	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/21/06 15:09	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/21/06 15:09	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/21/06 15:09	MP	EPA 300/SW846 9056
Sulfate	7.0	2.0	mg/l	1	01/21/06 15:09	MP	EPA 300/SW846 9056
Total Organic Carbon	5.6	1.0	mg/l	1	01/24/06 13:09	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F37989-5	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011253.D	1	02/01/06	AB	n/a	n/a	GQQ446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	39.3	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene [b]	ND	2.0	2.0	ug/l	
106-46-7	1,4-Dichlorobenzene [b]	ND	1.0	1.0	ug/l	J
100-41-4	Ethylbenzene	0.86	1.0	0.50	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-130%
98-08-8	aaa-Trifluorotoluene	99%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F37989-5	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021172.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	56.5	0.50	0.30	ug/l	
74-84-0	Ethane	1.5	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F37989-5	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP010816.D	1	01/26/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	14.4	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	7.9	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.1	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	8.7	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	14.8	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	87%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F37989-5	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/21/06 15:26	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/21/06 15:26	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/21/06 15:26	MP	EPA 300/SW846 9056
Sulfate [b]	3280	20	mg/l	10	01/24/06 21:56	MP	EPA 300/SW846 9056
Total Organic Carbon	11.8	1.0	mg/l	1	01/24/06 14:25	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Estimated value, above calibration range.

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F37989-6	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011037.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.0	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F37989-6	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021173.D	1	01/25/06	TD	n/a	n/a	GXY797
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	41.4	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F37989-6	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP010817.D	1	01/26/06	MRE	01/23/06	OP15555	GPP379
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		36-114%
92-94-4	p-Terphenyl	69%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F37989-6	Date Sampled:	01/20/06
Matrix:	AQ - Ground Water	Date Received:	01/21/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/21/06 16:19	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/21/06 16:19	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/21/06 16:19	MP	EPA 300/SW846 9056
Sulfate	31.2	2.0	mg/l	1	01/21/06 16:19	MP	EPA 300/SW846 9056
Total Organic Carbon	1.3	1.0	mg/l	1	01/24/06 14:51	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46268 14:49 22-Feb-2006

Report of Analysis

Client Sample ID:	TRIPBLANK012006		
Lab Sample ID:	F37989-7	Date Sampled:	01/20/06
Matrix:	AQ - Trip Blank Water	Date Received:	01/21/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011038.D	1	01/23/06	AB	n/a	n/a	GQQ438
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN-OF-CUSTODY RECORD F37989

COC Number:
117407-NW-012006

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_2+NO_3 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	UST1115-MW24	1/20/06	9:45		X	(1) UST1115-MW24	11	X	X	X	X	X	X
2	UST1115-MW21	1/20/06	10:42		X	(2) UST1115-MW21	11	X	X	X	X	X	X
3	UST1115-MW02	1/20/06	11:40		X	(3) UST1115-MW02	11	X	X	X	X	X	X
4	UST1115-MW22	1/20/06	12:25		X	(4) UST1115-MW22	11	X	X	X	X	X	X
5	UST1115-MW17	1/20/06	13:15		X	(5) UST1115-MW17	11	X	X	X	X	X	X
6	UST1115-MW04	1/20/06	14:27		X	(6) UST1115-MW04	11	X	X	X	X	X	X
7	TripBlank 012006	1/20/06			X	(7) Trip Blank	2	X					
8													
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 7		Fed Ex 8542 8325 7476 8542 8325 7487	1-20-06	18:00	14 Day TAT
2	FX			1/21/06	0920	

2.9 2.2

F37989: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES
F37989

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F3 CLIENT: Shaw E&I PROJECT: Camp Lejeune - NC

DATE/TIME RECEIVED: 1/21/06 0920 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.0 2.2

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

AIRBILL NUMBERS: 8542 8325 7487

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [V] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS: One amber bottle for Sample "US-1115MW02" on label has the wrong ID "US-1115MW21" but the weight was @ 1140 as C.O.C stated

TECHNICIAN SIGNATURE/DATE: MS 1/21/06 TECHNICIAN SIGNATURE/DATE:

ASRD06/22/05

F37989: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ438-MB	QQ011023.D	1	01/23/06	AB	n/a	n/a	GQQ438

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-3, F37989-4, F37989-6, F37989-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	85%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-MB	QQ011230.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-4, F37989-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	71-130%
98-08-8	aaa-Trifluorotoluene	98%	71-124%

Method Blank Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-MB	QQ011292.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY797-MB	XY021154.D	1	01/25/06	TD	n/a	n/a	GXY797

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ438-BS	QQ011022.D	1	01/23/06	AB	n/a	n/a	GQQ438

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-3, F37989-4, F37989-6, F37989-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.8	94	81-121
108-90-7	Chlorobenzene	20	18.5	93	76-120
95-50-1	1,2-Dichlorobenzene	20	17.7	89	63-127
541-73-1	1,3-Dichlorobenzene	20	18.3	92	70-124
106-46-7	1,4-Dichlorobenzene	20	17.4	87	68-121
100-41-4	Ethylbenzene	20	17.9	90	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	73-118
108-88-3	Toluene	20	18.3	92	79-122
1330-20-7	Xylenes (total)	60	53.4	89	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	91%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	71-124%

Blank Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-BS	QQ011229.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-4, F37989-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.5	93	81-121
108-90-7	Chlorobenzene	20	18.7	94	76-120
95-50-1	1,2-Dichlorobenzene	20	18.0	90	63-127
541-73-1	1,3-Dichlorobenzene	20	18.1	91	70-124
106-46-7	1,4-Dichlorobenzene	20	17.0	85	68-121
100-41-4	Ethylbenzene	20	18.5	93	79-124
1634-04-4	Methyl Tert Butyl Ether	20	21.5	108	73-118
108-88-3	Toluene	20	18.8	94	79-122
1330-20-7	Xylenes (total)	60	55.1	92	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-BS	QQ011291.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.9	100	81-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	71-124%

Blank Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY797-BS	XY021155.D	1	01/25/06	TD	n/a	n/a	GXY797

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	127	118	60-135
74-84-0	Ethane	219	248	113	64-141
74-85-1	Ethene	290	334	115	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F37941-1MS	QQ011030.D	1	01/23/06	AB	n/a	n/a	GQQ438
F37941-1MSD	QQ011031.D	1	01/23/06	AB	n/a	n/a	GQQ438
F37941-1	QQ011026.D	1	01/23/06	AB	n/a	n/a	GQQ438

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-3, F37989-4, F37989-6, F37989-7

CAS No.	Compound	F37941-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	17.4	87	16.9	85	3	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	17.4	87	17.3	87	1	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	16.5	83	16.5	83	0	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	17.2	86	17.1	86	1	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	16.3	82	16.2	81	1	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	16.9	85	16.7	84	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	2.3		20	20.2	90	20.3	90	0	63-130/11
108-88-3	Toluene	1.0	U	20	17.1	86	16.9	85	1	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	50.7	85	50.2	84	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F37941-1	Limits
460-00-4	4-Bromofluorobenzene	91%	91%	86%	71-130%
98-08-8	aaa-Trifluorotoluene	100%	100%	99%	71-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38104-3MS	QQ011249.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3MSD	QQ011250.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3 [a]	QQ011252.D	1	02/01/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1, F37989-2, F37989-4, F37989-5

CAS No.	Compound	F38104-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.7	94	18.1	91	3	74-126/11
108-90-7	Chlorobenzene	ND		20	18.6	93	18.6	93	0	72-124/8
95-50-1	1,2-Dichlorobenzene	0.54		20	18.7	91	18.6	90	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	18.4	92	18.1	91	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	17.3	87	17.2	86	1	61-133/11
100-41-4	Ethylbenzene	ND		20	18.6	93	18.5	93	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	28.8		20	51.1	112	49.5	104	3	63-130/11
108-88-3	Toluene	ND		20	18.6	93	18.5	93	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	55.3	92	54.9	92	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38104-3	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	96%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	93%	90%	71-124%

(a) All hits confirmed by GC/MS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38054-4MS	QQ011303.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4MSD	QQ011304.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4 [a]	QQ011293.D	200	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F37989-1

CAS No.	Compound	F38054-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	12100		4000	16000	98	15700	90	2	74-126/11

CAS No.	Surrogate Recoveries	MS	MSD	F38054-4	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	99%	102%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F37989-3MS	XY021174.D	1	01/25/06	TD	n/a	n/a	GXY797
F37989-3	XY021167.D	1	01/25/06	TD	n/a	n/a	GXY797

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	F37989-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.44	J	108	131	121	30-162
74-84-0	Ethane	ND		219	253	116	54-160
74-85-1	Ethene	ND		290	341	118	53-159

Duplicate Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F37919-13DUP	XY021171.D	5	01/25/06	TD	n/a	n/a	GXY797
F37919-13	XY021159.D	1	01/25/06	TD	n/a	n/a	GXY797
F37919-13	XY021170.D	5	01/25/06	TD	n/a	n/a	GXY797

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	F37919-13 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	2790 [a]		3230		15	27
74-84-0	Ethane	1.4		ND		200*	19
74-85-1	Ethene	ND		ND		nc	18

(a) Result is from Run #2.

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15555-MB	PP010804.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379

The QC reported here applies to the following samples: Method: EPA 610

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	87%	31-121%

Blank Spike Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15555-BS	PP010803.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379

The QC reported here applies to the following samples: Method: EPA 610

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	15.9	80	60-98
208-96-8	Acenaphthylene	20	17.3	87	57-97
120-12-7	Anthracene	10	8.1	81	68-103
56-55-3	Benzo(a)anthracene	10	8.4	84	68-106
50-32-8	Benzo(a)pyrene	10	8.7	87	70-108
205-99-2	Benzo(b)fluoranthene	10	8.6	86	70-108
191-24-2	Benzo(g,h,i)perylene	10	8.5	85	69-108
207-08-9	Benzo(k)fluoranthene	10	8.6	86	69-109
218-01-9	Chrysene	10	8.5	85	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.1	91	69-108
206-44-0	Fluoranthene	20	16.6	83	65-104
86-73-7	Fluorene	20	16.3	82	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.7	87	69-108
91-20-3	Naphthalene	20	15.9	80	52-91
90-12-0	1-Methylnaphthalene	20	15.4	77	54-94
91-57-6	2-Methylnaphthalene	20	15.0	75	55-94
85-01-8	Phenanthrene	20	17.3	87	62-102
129-00-0	Pyrene	20	17.6	88	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	36-114%
92-94-4	p-Terphenyl	91%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F37989
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15555-MS	PP010810.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379
OP15555-MSD	PP010811.D	1	01/26/06	MRE	01/23/06	OP15555	GPP379
F37989-2 [a]	PP010809.D	1	01/25/06	MRE	01/23/06	OP15555	GPP379

The QC reported here applies to the following samples: Method: EPA 610

F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

CAS No.	Compound	F37989-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	30.6	80	30.6	80	0	42-119/25
208-96-8	Acenaphthylene	ND		38.5	33.3	87	33.1	86	1	40-121/25
120-12-7	Anthracene	ND		19.2	15.6	81	15.6	81	0	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	16.6	86	16.4	85	1	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.5	91	17.2	89	2	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	17.3	90	17.0	88	2	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	17.0	88	16.7	87	2	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	17.2	89	16.8	87	2	66-111/15
218-01-9	Chrysene	ND		19.2	16.8	87	16.5	86	2	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	18.1	94	17.8	93	2	66-111/14
206-44-0	Fluoranthene	ND		38.5	32.3	84	32.3	84	0	64-107/16
86-73-7	Fluorene	ND		38.5	31.5	82	31.5	82	0	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.5	91	17.1	89	2	65-112/15
91-20-3	Naphthalene	2.1		38.5	31.1	75	31.2	76	0	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	30.0	78	29.9	78	0	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	29.3	76	29.2	76	0	43-106/25
85-01-8	Phenanthrene	ND		38.5	33.4	87	33.5	87	0	59-105/20
129-00-0	Pyrene	ND		38.5	34.3	89	34.2	89	0	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F37989-2	Limits
84-15-1	o-Terphenyl	88%	88%	86%	36-114%
92-94-4	p-Terphenyl	92%	91%	87%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F37989
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7420/GN19552	2.0	<2.0	mg/l	50	48.0	96.0	90-110%
Fluoride	GP7420/GN19552	0.20	<0.20	mg/l	2.5	2.51	100.4	90-110%
Nitrogen, Nitrate	GP7420/GN19552	0.10	<0.10	mg/l	2.5	2.52	100.8	90-110%
Nitrogen, Nitrite	GP7420/GN19552	0.10	<0.10	mg/l	2.5	2.38	95.2	90-110%
Sulfate	GP7420/GN19552	2.0	<2.0	mg/l	50	54.8	109.6	90-110%
Total Organic Carbon	GP7417/GN19554	1.0	<1.0	mg/l	15	15.0	100.0	90-110%

Associated Samples:
Batch GP7417: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6
Batch GP7420: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6

6.1.3

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F37989
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7420/GN19552	F37989-1	mg/l	14.3	14.7	2.8	0-20%
Chloride	GP7420/GN19552	F37989-2	mg/l	12.6	12.7	0.8	0-20%
Fluoride	GP7420/GN19552	F37989-1	mg/l	<0.20	<0.20	0.0	0-20%
Fluoride	GP7420/GN19552	F37989-2	mg/l	<0.20	<0.20	0.0	0-20%
Nitrogen, Nitrate	GP7420/GN19552	F37989-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP7420/GN19552	F37989-2	mg/l	0.12	0.14	15.4	0-20%
Nitrogen, Nitrite	GP7420/GN19552	F37989-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7420/GN19552	F37989-2	mg/l	<0.10	<0.10	0.0	0-20%
Sulfate	GP7420/GN19552	F37989-1	mg/l	328	339(a)	3.3	0-20%
Sulfate	GP7420/GN19552	F37989-2	mg/l	26.9	27.8	3.3	0-20%
Total Organic Carbon	GP7417/GN19554	F37989-1	mg/l	7.0	6.6	5.9	0-20%

Associated Samples:
Batch GP7417: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6
Batch GP7420: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6
(a) Over calibration curve.

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F37989
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7420/GN19552	F37989-1	mg/l	14.3	50	58.0	87.4N(a)	90-110%
Chloride	GP7420/GN19552	F37989-2	mg/l	12.6	50	54.3	83.4N(a)	90-110%
Fluoride	GP7420/GN19552	F37989-1	mg/l	<0.20	2.5	2.5	96.0	90-110%
Fluoride	GP7420/GN19552	F37989-2	mg/l	<0.20	2.5	3.6	144.0N(a)	90-110%
Nitrogen, Nitrate	GP7420/GN19552	F37989-1	mg/l	<0.10	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP7420/GN19552	F37989-2	mg/l	0.12	2.5	2.4	91.2	90-110%
Nitrogen, Nitrite	GP7420/GN19552	F37989-1	mg/l	<0.10	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP7420/GN19552	F37989-2	mg/l	<0.10	2.5	2.2	88.0N(a)	90-110%
Sulfate	GP7420/GN19552	F37989-1	mg/l	328	50	353	50.0(b)	90-110%
Sulfate	GP7420/GN19552	F37989-2	mg/l	26.9	50	66.7	79.6N(a)	90-110%
Total Organic Carbon	GP7417/GN19554	F37989-1	mg/l	7.0	15	79.2	481.0N(a)	75-125%

Associated Samples:
Batch GP7417: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6
Batch GP7420: F37989-1, F37989-2, F37989-3, F37989-4, F37989-5, F37989-6
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

6.3

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/21/06

Technical Report for

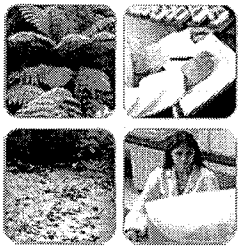
Shaw E & I, Inc.

Camp Lejeune-NW

117407

Accutest Job Number: F38020

Sampling Date: 01/23/06



Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 63

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006
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YEARS OF EXCELLENCE
Accutest Laboratories

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

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Sample Summary

Shaw E & I, Inc.

Job No: F38020

Camp Lejeune-NW
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F38020-1	01/23/06	10:30	RK	01/24/06	AQ	Ground Water	UST1115-MW23
F38020-2	01/23/06	12:15	RK	01/24/06	AQ	Ground Water	78GW22-02
F38020-3	01/23/06	11:20	RK	01/24/06	AQ	Ground Water	UST1115GT-MW09
F38020-4	01/23/06	13:00	RK	01/24/06	AQ	Ground Water	UST1115-MW01
F38020-5	01/23/06	14:30	RK	01/24/06	AQ	Ground Water	UST1115-MW25
F38020-6	01/23/06	15:00	RK	01/24/06	AQ	Ground Water	UST1115GT-MW01
F38020-7	01/23/06	15:00	RK	01/24/06	AQ	Ground Water	UST1115GT-MW01D
F38020-8	01/23/06	15:15	RK	01/24/06	AQ	Ground Water	UST1115-MW13

Sample Results

Report of Analysis

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F38020-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058508.D	100	02/02/06	TD	n/a	n/a	GEF3925
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7230	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
100-41-4	Ethylbenzene	124	100	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
108-88-3	Toluene	441	100	50	ug/l	
1330-20-7	Xylenes (total)	318	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F38020-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021182.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	212	0.50	0.30	ug/l	
74-84-0	Ethane	19.1	1.0	0.60	ug/l	
74-85-1	Ethene	10.8	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F38020-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011072.D	1	02/06/06	MRE	01/30/06	OP15605	GPP387
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.8	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	81%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F38020-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 16:04	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 16:04	MP	SM18 4500NO3E
Nitrogen, Nitrite	0.10	0.10	mg/l	1	01/24/06 16:04	MP	EPA 300/SW846 9056
Sulfate	852	10	mg/l	5	01/31/06 14:01	MP	EPA 300/SW846 9056
Total Organic Carbon	36.6	2.0	mg/l	2	01/27/06 13:23	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	78GW22-02		
Lab Sample ID:	F38020-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058470.D	1	02/01/06	TD	n/a	n/a	GEF3923
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	95.4	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	3.7	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	17.3	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	10.7	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		71-130%
98-08-8	aaa-Trifluorotoluene	102%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	78GW22-02		
Lab Sample ID:	F38020-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021183.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	200	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	78GW22-02		
Lab Sample ID:	F38020-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011031.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	81%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	78GW22-02		
Lab Sample ID:	F38020-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/24/06 16:22	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/24/06 16:22	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/24/06 16:22	MP	EPA 300/SW846 9056
Sulfate	105	2.0	mg/l	1	01/24/06 16:22	MP	EPA 300/SW846 9056
Total Organic Carbon	3.3	1.0	mg/l	1	01/25/06 13:19	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F38020-3	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058471.D	1	02/01/06	TD	n/a	n/a	GEF3923
Run #2	EF058510.D	5	02/02/06	TD	n/a	n/a	GEF3925

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	154 [b]	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	4.7	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	22.3	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	13.5	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	97%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	99%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F38020-3	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021184.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	88.9	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F38020-3	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011032.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	85%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F38020-3	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 16:39	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 16:39	MP	SM18 4500NO3E
Nitrogen, Nitrite	0.10	0.10	mg/l	1	01/24/06 16:39	MP	EPA 300/SW846 9056
Sulfate	95.8	2.0	mg/l	1	01/24/06 16:39	MP	EPA 300/SW846 9056
Total Organic Carbon	2.4	1.0	mg/l	1	01/25/06 14:38	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F38020-4	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058520.D	1	02/02/06	TD	n/a	n/a	GEF3925
Run #2 [a]	EF058448.D	1	02/01/06	TD	n/a	n/a	GEF3922

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	85%	71-130%
98-08-8	aaa-Trifluorotoluene	101%	87%	71-124%

(a) Confirmation run.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F38020-4	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021185.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46331 11:34 31-Feb-3006

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F38030-4	Date Sampled:	01/33/06
Matrix:	AQ - Ground Water	Date Received:	01/34/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011033.D	1	03/03/06	MRE	01/30/06	OP15605	GPP386
Run #3							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #3		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-33-9	Acenaphthene	ND	3.8	0.96	ug/l	
308-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
130-13-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-33-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
305-99-3	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-34-3	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
307-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
318-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
306-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,3,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-30-3	Naphthalene	ND	1.9	0.96	ug/l	
90-13-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	3-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
139-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
93-94-4	p-Terphenyl	69%		31-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	Fg8020-4	Date Sampled:	01/2g/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	g.g	0.10	mg/l	1	01/24/06 16:57	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	g.g	0.20	mg/l	1	01/24/06 16:57	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/24/06 16:57	MP	EPA 300/SW846 9056
Sulfate	26.1	2.0	mg/l	1	01/24/06 16:57	MP	EPA 300/SW846 9056
Total Organic Carbon	<1.0	1.0	mg/l	1	01/25/06 15:0g	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F38020-5	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058509.D	100	02/02/06	TD	n/a	n/a	GEF3925
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5000	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
100-41-4	Ethylbenzene	61.7	100	50	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
108-88-3	Toluene	225	100	50	ug/l	
1330-20-7	Xylenes (total)	256	300	100	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F38020-5	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021189.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	434	0.50	0.30	ug/l	
74-84-0	Ethane	61.4	1.0	0.60	ug/l	
74-85-1	Ethene	31.4	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F38020-5	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011034.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		36-114%
92-94-4	p-Terphenyl	84%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F38020-5	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 17:50	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 17:50	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/24/06 17:50	MP	EPA 300/SW846 9056
Sulfate	<2.0	2.0	mg/l	1	01/24/06 17:50	MP	EPA 300/SW846 9056
Total Organic Carbon	9.2	1.0	mg/l	1	01/25/06 15:29	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F38020-6	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058450.D	1	02/01/06	TD	n/a	n/a	GEF3922
Run #2 [a]	EF058467.D	20	02/01/06	TD	n/a	n/a	GEF3923

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1100 [b]	20	10	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	110 [b]	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.0	1.0	0.50	ug/l	
108-88-3	Toluene	19.0	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	86.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	96%	71-130%
98-08-8	aaa-Trifluorotoluene	108%	98%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F38020-6	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021186.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	139	0.50	0.30	ug/l	
74-84-0	Ethane	1.4	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F38020-6	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011037.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	3.8	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.2	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F38020-6	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.37	0.10	mg/l	1	01/24/06 18:07	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.37	0.20	mg/l	1	01/24/06 18:07	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/24/06 18:07	MP	EPA 300/SW846 9056
Sulfate	60.4	2.0	mg/l	1	01/24/06 18:07	MP	EPA 300/SW846 9056
Total Organic Carbon	1.4	1.0	mg/l	1	01/25/06 15:57	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UST1115GT-MW01D		
Lab Sample ID:	F38020-7	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058451.D	1	02/01/06	TD	n/a	n/a	GEF3922
Run #2 [a]	EF058468.D	20	02/01/06	TD	n/a	n/a	GEF3923

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1120 [b]	20	10	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	99.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.8	1.0	0.50	ug/l	
108-88-3	Toluene	18.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	84.4	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	98%	71-130%
98-08-8	aaa-Trifluorotoluene	109%	101%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST1115GT-MW01D		
Lab Sample ID:	F38020-7	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021190.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	127	0.50	0.30	ug/l	
74-84-0	Ethane	1.3	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115GT-MW01D		
Lab Sample ID:	F38020-7	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011038.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	3.8	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.6	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	79%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW01D		
Lab Sample ID:	F38020-7	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.35	0.10	mg/l	1	01/24/06 18:25	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.35	0.20	mg/l	1	01/24/06 18:25	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/24/06 18:25	MP	EPA 300/SW846 9056
Sulfate	61.4	2.0	mg/l	1	01/24/06 18:25	MP	EPA 300/SW846 9056
Total Organic Carbon	1.3	1.0	mg/l	1	01/25/06 16:24	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F38020-8	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058469.D	5	02/01/06	TD	n/a	n/a	GEF3923
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	263	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
100-41-4	Ethylbenzene	32.0	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
108-88-3	Toluene	13.5	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	23.5	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	105%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F38020-8	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021191.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	133	0.50	0.30	ug/l	
74-84-0	Ethane	4.60	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F38020-8	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011039.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	7.1	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	1.4	1.9	0.96	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	58.7	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	10.1	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	16.5	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		36-114%
92-94-4	p-Terphenyl	75%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46231 11:34 21-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F38020-8	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 18:42	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 18:42	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/24/06 18:42	MP	EPA 300/SW846 9056
Sulfate	2850	20	mg/l	10	01/31/06 14:18	MP	EPA 300/SW846 9056
Total Organic Carbon	19.5	1.0	mg/l	1	01/25/06 17:50	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F38020

CHAIN-OF-CUSTODY RECORD

COC Number:
117407-NW-012306

Shaw
Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3-N,NO_2-N,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	UST1115-MW23	1/23/06	10:30		X	UST1115-MW23	11	X	X	X	X	X	X
2	78GW22-02	1/23/06	12:15		X	78GW22-02	11	X	X	X	X	X	X
3	UST1115GT-MW09	1/23/06	11:20		X	UST1115GT-MW09	11	X	X	X	X	X	X
4	UST1115-MW01		13:00		X	UST1115-MW01	11	X	X	X	X	X	X
5	UST1115-MW25		14:30		X	UST1115-MW25	11	X	X	X	X	X	X
6	UST1115GT-MW01		15:00		X	UST1115GT-MW01	11	X	X	X	X	X	X
7	UST1115GT-MW01D		15:00		X	UST1115GT-MW01 DUP	11	X	X	X	X	X	X
8	UST1115-MW13		15:15		X	UST1115-MW13	11	X	X	X	X	X	X
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 8		FedEx 8542 8326 1034	1/23/06	18:00	14 Day TAT
2		FX		1/24/06	0900	

J. H. 24

F38020: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F38020 CLIENT: Shaw E&I PROJECT: Camp Lejeune-NW

DATE/TIME RECEIVED: 1/24/06 0900 # OF COOLERS RECEIVED: ___ COOLER TEMPS: 2-4,2-4

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

AIRBILL NUMBERS: 8542 8326 1034

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? 2

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE MS 1/24/06 TECHNICIAN SIGNATURE/DATE

3.1.3

F38020: Chain of Custody
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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3922-MB	EF058439.D	1	01/31/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-6, F38020-7

CAS No.	Compound	Result	RL	MDL	Units	Q
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-MB	EF058464.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-2, F38020-3, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	71-130%
98-08-8	aaa-Trifluorotoluene	89%	71-124%

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-MB	EF058506.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-1, F38020-3, F38020-4, F38020-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	71-124%

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-MB	XY021178.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3922-BS	EF058438.D	1	01/31/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-6, F38020-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-90-7	Chlorobenzene	20	22.4	112	76-120
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	20.3	102	68-121
100-41-4	Ethylbenzene	20	22.3	112	79-124
1634-04-4	Methyl Tert Butyl Ether	20	20.4	102	73-118
108-88-3	Toluene	20	22.0	110	79-122
1330-20-7	Xylenes (total)	60	65.9	110	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	71-130%
98-08-8	aaa-Trifluorotoluene	103%	71-124%

Blank Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-BS	EF058463.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-2, F38020-3, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	81-121
108-90-7	Chlorobenzene	20	22.1	111	76-120
95-50-1	1,2-Dichlorobenzene	20	21.0	105	63-127
541-73-1	1,3-Dichlorobenzene	20	21.9	110	70-124
106-46-7	1,4-Dichlorobenzene	20	21.7	109	68-121
100-41-4	Ethylbenzene	20	22.2	111	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	73-118
108-88-3	Toluene	20	21.2	106	79-122
1330-20-7	Xylenes (total)	60	64.9	108	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-BS	EF058505.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-1, F38020-3, F38020-4, F38020-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	81-121
108-90-7	Chlorobenzene	20	19.7	99	76-120
95-50-1	1,2-Dichlorobenzene	20	16.8	84	63-127
541-73-1	1,3-Dichlorobenzene	20	18.6	93	70-124
106-46-7	1,4-Dichlorobenzene	20	17.4	87	68-121
100-41-4	Ethylbenzene	20	19.0	95	79-124
1634-04-4	Methyl Tert Butyl Ether	20	17.9	90	73-118
108-88-3	Toluene	20	18.5	93	79-122
1330-20-7	Xylenes (total)	60	55.7	93	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	71-124%

Blank Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-BS	XY021179.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	100	93	60-135
74-84-0	Ethane	219	193	88	64-141
74-85-1	Ethene	290	260	90	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38020-4MS	EF058458.D	1	02/01/06	TD	n/a	n/a	GEF3922
F38020-4MSD	EF058459.D	1	02/01/06	TD	n/a	n/a	GEF3922
F38020-4 [a]	EF058448.D	1	02/01/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-6, F38020-7

CAS No.	Compound	F38020-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-90-7	Chlorobenzene	ND		20	17.8	89	18.0	90	1	72-124/8
541-73-1	1,3-Dichlorobenzene	ND		20	15.4	77	15.4	77	0	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	14.4	72	14.4	72	0	61-133/11
100-41-4	Ethylbenzene	ND		20	16.8	84	17.0	85	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	15.9	80	16.7	84	5	63-130/11
108-88-3	Toluene	ND		20	16.7	84	17.0	85	2	69-132/7
1330-20-7	Xylenes (total)	ND		60	50.6	84	51.1	85	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38020-4	Limits
460-00-4	4-Bromofluorobenzene	94%	93%	85%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	92%	87%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-5MS	EF058496.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5MSD	EF058497.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5 [a]	EF058495.D	1	02/02/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-2, F38020-3, F38020-6, F38020-7, F38020-8

CAS No.	Compound	F38146-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	18.9	95	19.4	97	3	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	19.5	98	20.0	100	3	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	15.2	76	16.8	84	10	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	17.8	89	18.7	94	5	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	16.5	83	17.3	87	5	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	19.1	96	19.2	96	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	17.1	86	18.1	91	6	63-130/11
108-88-3	Toluene	1.0	U	20	18.6	93	18.9	95	2	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.3	94	57.3	96	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-5	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	102%	96%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-2MS	EF058523.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2MSD	EF058524.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2	EF058517.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38020-1, F38020-3, F38020-4, F38020-5

CAS No.	Compound	F38146-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	19.1	96	19.0	95	1	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	20.0	100	19.7	99	2	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	16.7	84	17.0	85	2	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	18.9	95	19.0	95	1	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	17.8	89	17.8	89	0	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	19.4	97	19.1	96	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	18.1	91	18.2	91	1	63-130/11
108-88-3	Toluene	1.0	U	20	18.9	95	18.8	94	1	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.6	94	56.2	94	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-2	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	105%	97%	71-124%

Matrix Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38020-4MS	XY021193.D	1	01/26/06	TD	n/a	n/a	GXY798
F38020-4	XY021185.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	F38020-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	ND		108	106	98	30-162
74-84-0	Ethane	ND		219	203	93	54-160
74-85-1	Ethene	ND		290	274	94	53-159

Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	F38054-3DUP	XY021198.D	5	01/26/06	TD	n/a	n/a	GXY798
	F38054-3	XY021197.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	F38054-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	3210	E	2870			27
74-84-0	Ethane	2.06		2.1			19
74-85-1	Ethene	7.88		7.04			18

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011026.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	88%	31-121%

Method Blank Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011068.D	1	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Blank Spike Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-BS	PP011025.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	15.9	80	60-98
208-96-8	Acenaphthylene	20	17.5	88	57-97
120-12-7	Anthracene	10	8.1	81	68-103
56-55-3	Benzo(a)anthracene	10	8.7	87	68-106
50-32-8	Benzo(a)pyrene	10	9.2	92	70-108
205-99-2	Benzo(b)fluoranthene	10	9.1	91	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.0	90	69-108
207-08-9	Benzo(k)fluoranthene	10	9.0	90	69-109
218-01-9	Chrysene	10	8.9	89	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.5	95	69-108
206-44-0	Fluoranthene	20	16.8	84	65-104
86-73-7	Fluorene	20	16.5	83	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.2	92	69-108
91-20-3	Naphthalene	20	15.7	79	52-91
90-12-0	1-Methylnaphthalene	20	15.6	78	54-94
91-57-6	2-Methylnaphthalene	20	15.3	77	55-94
85-01-8	Phenanthrene	20	17.5	88	62-102
129-00-0	Pyrene	20	17.9	90	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	36-114%
92-94-4	p-Terphenyl	95%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MS	PP011040.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
OP15605-MSD	PP011041.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38020-8 [a]	PP011039.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	F38020-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	7.1		38.5	36.7	77	35.8	75	2	42-119/25
208-96-8	Acenaphthylene	ND		38.5	43.3	113	41.8	109	4	40-121/25
120-12-7	Anthracene	ND		19.2	14.4	75	13.9	72	4	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	16.2	84	15.4	80	5	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.1	89	16.0	83	7	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	16.9	88	15.9	83	6	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	16.7	87	15.4	80	8	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	16.7	87	15.8	82	6	66-111/15
218-01-9	Chrysene	ND		19.2	16.5	86	15.6	81	6	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.7	92	16.5	86	7	66-111/14
206-44-0	Fluoranthene	ND		38.5	30.8	80	30.1	78	2	64-107/16
86-73-7	Fluorene	1.4	J	38.5	30.9	77	30.2	75	2	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	15.8	82	8	65-112/15
91-20-3	Naphthalene	58.7		38.5	102	113*	95.8	96	6	41-102/24
90-12-0	1-Methylnaphthalene	10.1		38.5	39.7	77	38.2	73	4	41-109/25
91-57-6	2-Methylnaphthalene	16.5		38.5	46.6	78	44.6	73	4	43-106/25
85-01-8	Phenanthrene	ND		38.5	31.4	82	30.7	80	2	59-105/20
129-00-0	Pyrene	ND		38.5	32.8	85	32.0	83	2	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F38020-8	Limits
84-15-1	o-Terphenyl	83%	81%	71%	36-114%
92-94-4	p-Terphenyl	89%	85%	75%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

Duplicate Summary

Job Number: F38020
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-DUP	PP011070.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387
F38019-1	PP011027.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38019-1 [a]	PP011069.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8

CAS No.	Compound	F38019-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND [b]		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-20-3	Naphthalene	473 [b]		507		7	
90-12-0	1-Methylnaphthalene	40.8 [b]		47.5		15	
91-57-6	2-Methylnaphthalene	117 [b]		133		13	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F38019-1	F38019-1	Limits
84-15-1	o-Terphenyl	95%	87%	88%	36-114%
92-94-4	p-Terphenyl	89%	81%	80%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run #2.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38020
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7426/GN19569	2.0	<2.0	mg/l	50	47.7	95.4	90-110%
Fluoride	GP7426/GN19569	0.20	<0.20	mg/l	2.5	2.64	105.6	90-110%
Nitrogen, Nitrate	GP7426/GN19569	0.10	<0.10	mg/l	2.5	2.45	98.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	0.10	<0.10	mg/l	2.5	2.34	93.6	90-110%
Sulfate	GP7426/GN19569	2.0	<2.0	mg/l	50	48.9	97.8	90-110%
Total Organic Carbon	GP7424/GN19565	1.0	<1.0	mg/l	15	14.9	99.3	90-110%
Total Organic Carbon	GP7436/GN19597	1.0	<1.0	mg/l	15	15.3	102.0	90-110%

Associated Samples:
Batch GP7424: F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7426: F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7436: F38020-1

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38020
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7426/GN19569	F38019-1	mg/l	9.2	9.1	1.1	0-20%
Chloride	GP7426/GN19569	F38019-2	mg/l	8.4	8.4	0.0	0-20%
Fluoride	GP7426/GN19569	F38019-1	mg/l	<0.20	<0.20	0.0	0-20%
Fluoride	GP7426/GN19569	F38019-2	mg/l	<0.20	<0.20	0.0	0-20%
Nitrogen, Nitrate	GP7426/GN19569	F38019-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP7426/GN19569	F38019-2	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7426/GN19569	F38019-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7426/GN19569	F38019-2	mg/l	<0.10	<0.10	0.0	0-20%
Sulfate	GP7426/GN19569	F38019-1	mg/l	27.0	26.2	3.0	0-20%
Sulfate	GP7426/GN19569	F38019-2	mg/l	8.9	9.1	2.2	0-20%
Total Organic Carbon	GP7424/GN19565	F38035-1	mg/l	12.6	12.5	0.8	0-20%
Total Organic Carbon	GP7436/GN19597	F38030-1	mg/l	2460	2470	0.4	0-20%

Associated Samples:
Batch GP7424: F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7426: F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7436: F38020-1

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38020
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7426/GN19569	F38019-1	mg/l	9.2	50	62.5	106.6	90-110%
Chloride	GP7426/GN19569	F38019-2	mg/l	8.4	50	51.7(a)	86.6N(a)	90-110%
Fluoride	GP7426/GN19569	F38019-1	mg/l	<0.20	2.5	2.9(a)	116.0N(a)	90-110%
Fluoride	GP7426/GN19569	F38019-2	mg/l	<0.20	2.5	2.8(a)	112.0N(a)	90-110%
Nitrogen, Nitrate	GP7426/GN19569	F38019-1	mg/l	<0.10	2.5	2.5	100.0	90-110%
Nitrogen, Nitrate	GP7426/GN19569	F38019-2	mg/l	<0.10	2.5	2.4(a)	96.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	F38019-1	mg/l	<0.10	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	F38019-2	mg/l	<0.10	2.5	2.2(a)	88.0N(a)	90-110%
Sulfate	GP7426/GN19569	F38019-1	mg/l	27.0	50	68.5(a)	83.0N(a)	90-110%
Sulfate	GP7426/GN19569	F38019-2	mg/l	8.9	50	50.5(a)	83.2N(a)	90-110%
Total Organic Carbon	GP7424/GN19565	F38035-1	mg/l	12.6	15	26.2	90.7	75-125%
Total Organic Carbon	GP7436/GN19597	F38030-1	mg/l	2460	15	2220	0.0(b)	75-125%

Associated Samples:
Batch GP7424: F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7426: F38020-1, F38020-2, F38020-3, F38020-4, F38020-5, F38020-6, F38020-7, F38020-8
Batch GP7436: F38020-1
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/22/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-NW

117407

Accutest Job Number: F38104

Sampling Date: 01/25/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 39

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006 50 YEARS OF EXCELLENCE Accutest Laboratories

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

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Sample Summary

Shaw E & I, Inc.

Job No: F38104

Camp Lejeune-NW
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F38104-1	01/25/06	14:20	RK	01/26/06	AQ	Ground Water	UST1115GT-MW07
F38104-2	01/25/06	13:30	RK	01/26/06	AQ	Ground Water	UST1115-MW18
F38104-3	01/25/06	13:30	RK	01/26/06	AQ	Ground Water	UST1115-MW18D

Sample Results

Report of Analysis

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F38104-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011248.D	1	02/01/06	AB	n/a	n/a	GQQ446
Run #2 [a]	EF058511.D	10	02/02/06	TD	n/a	n/a	GEF3925

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	421 [b]	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	101%	104%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F38104-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021218.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	9.04	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F38104-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011059.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		36-114%
92-94-4	p-Terphenyl	71%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F38104-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/26/06 19:37	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/26/06 19:37	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/26/06 19:37	MP	EPA 300/SW846 9056
Sulfate	41.9	2.0	mg/l	1	01/26/06 19:37	MP	EPA 300/SW846 9056
Total Organic Carbon	3.4	1.0	mg/l	1	01/31/06 16:27	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW18		
Lab Sample ID:	F38104-2	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011251.D	1	02/01/06	AB	n/a	n/a	GQQ446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.81	1.0	0.50	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.4	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW18		
Lab Sample ID:	F38104-2	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021219.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW18		
Lab Sample ID:	F38104-2	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011062.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.98	ug/l	
120-12-7	Anthracene	ND	2.0	0.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.098	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.098	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.098	ug/l	
218-01-9	Chrysene	ND	2.0	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.049	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.49	ug/l	
86-73-7	Fluorene	ND	2.0	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.049	ug/l	
91-20-3	Naphthalene	ND	2.0	0.98	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.49	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.98	ug/l	
129-00-0	Pyrene	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		36-114%
92-94-4	p-Terphenyl	83%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW18		
Lab Sample ID:	F38104-2	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/26/06 19:54	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/26/06 19:54	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/26/06 19:54	MP	EPA 300/SW846 9056
Sulfate	201	2.0	mg/l	1	01/26/06 19:54	MP	EPA 300/SW846 9056
Total Organic Carbon	9.1	1.0	mg/l	1	01/31/06 16:50	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UST1115-MW18D		
Lab Sample ID:	F38104-3	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011252.D	1	02/01/06	AB	n/a	n/a	GQQ446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	1.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	28.8	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115-MW18D		
Lab Sample ID:	F38104-3	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021220.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW18D		
Lab Sample ID:	F38104-3	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011064.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.98	ug/l	
120-12-7	Anthracene	ND	2.0	0.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.098	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.098	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.098	ug/l	
218-01-9	Chrysene	ND	2.0	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.049	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.49	ug/l	
86-73-7	Fluorene	ND	2.0	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.049	ug/l	
91-20-3	Naphthalene	ND	2.0	0.98	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.49	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.98	ug/l	
129-00-0	Pyrene	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		36-114%
92-94-4	p-Terphenyl	63%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46268 09:09 22-Feb-2006

Report of Analysis

Client Sample ID:	UST1115-MW18D		
Lab Sample ID:	F38104-3	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/26/06 20:12	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/26/06 20:12	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/26/06 20:12	MP	EPA 300/SW846 9056
Sulfate	200	2.0	mg/l	1	01/26/06 20:12	MP	EPA 300/SW846 9056
Total Organic Carbon	8.7	1.0	mg/l	1	01/31/06 17:12	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F38104

COC Number:
117407-NW-012506

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_2+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1	Analysis Desired
1	1 UST1115GT-MW07	1/25/06	14:20		X	UST1115GT-MW07	11	X	X	X	X	X	X	
2	2 UST1115-MW18	1/25/06	13:30		X	UST1115-MW18	11	X	X	X	X	X	X	
3	3 UST1115-MW18D	1/25/06	13:30		X	UST1115-MW18 Dup	11	X	X	X	X	X	X	
4														
5														
6														
7														
8														
9														
10														

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 3		FedEx 8530 7647 8855	1/25/06	18:00	14 Day TAT
2	FX			1/26/06	0900	
3						

2.4

F38104: Chain of Custody
Page 1 of 2

ACCUTEST
F38104

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F38104 CLIENT: Shaw E&I PROJECT: Camp Lejeune - VW

DATE/TIME RECEIVED: 1/26/06 0900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4

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

AIRBILL NUMBERS: 8539 7647 8855

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 8

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 1/26/06 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

F38104: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-MB	QQ011230.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	71-130%
98-08-8	aaa-Trifluorotoluene	98%	71-124%

Method Blank Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-MB	EF058506.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	71-124%

Method Blank Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY799-MB	XY021202.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-BS	QQ011229.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.5	93	81-121
108-90-7	Chlorobenzene	20	18.7	94	76-120
95-50-1	1,2-Dichlorobenzene	20	18.0	90	63-127
541-73-1	1,3-Dichlorobenzene	20	18.1	91	70-124
106-46-7	1,4-Dichlorobenzene	20	17.0	85	68-121
100-41-4	Ethylbenzene	20	18.5	93	79-124
1634-04-4	Methyl Tert Butyl Ether	20	21.5	108	73-118
108-88-3	Toluene	20	18.8	94	79-122
1330-20-7	Xylenes (total)	60	55.1	92	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-BS	EF058505.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	81-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	71-124%

Blank Spike Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY799-BS	XY021203.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	92.4	86	60-135
74-84-0	Ethane	219	176	80	64-141
74-85-1	Ethene	290	238	82	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38104-3MS	QQ011249.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3MSD	QQ011250.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3 [a]	QQ011252.D	1	02/01/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1, F38104-2, F38104-3

CAS No.	Compound	F38104-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.7	94	18.1	91	3	74-126/11
108-90-7	Chlorobenzene	ND		20	18.6	93	18.6	93	0	72-124/8
95-50-1	1,2-Dichlorobenzene	0.54		20	18.7	91	18.6	90	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	18.4	92	18.1	91	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	17.3	87	17.2	86	1	61-133/11
100-41-4	Ethylbenzene	ND		20	18.6	93	18.5	93	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	28.8		20	51.1	112	49.5	104	3	63-130/11
108-88-3	Toluene	ND		20	18.6	93	18.5	93	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	55.3	92	54.9	92	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38104-3	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	96%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	93%	90%	71-124%

(a) All hits confirmed by GC/MS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-2MS	EF058523.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2MSD	EF058524.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2	EF058517.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38104-1

CAS No.	Compound	F38146-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	19.1	96	19.0	95	1	74-126/11

CAS No.	Surrogate Recoveries	MS	MSD	F38146-2	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	105%	97%	71-124%

Matrix Spike Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38104-2MS	XY021221.D	1	01/27/06	TD	n/a	n/a	GXY799
F38104-2	XY021219.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38104-1, F38104-2, F38104-3

CAS No.	Compound	F38104-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	ND		108	97.4	90	30-162
74-84-0	Ethane	ND		219	185	84	54-160
74-85-1	Ethene	ND		290	252	87	53-159

Duplicate Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38067-3DUP	XY021222.D	1	01/27/06	TD	n/a	n/a	GXY799
F38067-3	XY021215.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38104-1, F38104-2, F38104-3

CAS No.	Compound	F38067-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	751		671		11	27
74-84-0	Ethane	1.0 U		ND		nc	19
74-85-1	Ethene	6.62		6.22		6	18

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-MB	PP011058.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	82%	31-121%

Blank Spike Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-BS	PP011057.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38104-1, F38104-2, F38104-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	14.5	73	60-98
208-96-8	Acenaphthylene	20	16.9	85	57-97
120-12-7	Anthracene	10	6.9	69	68-103
56-55-3	Benzo(a)anthracene	10	8.0	80	68-106
50-32-8	Benzo(a)pyrene	10	8.3	83	70-108
205-99-2	Benzo(b)fluoranthene	10	8.2	82	70-108
191-24-2	Benzo(g,h,i)perylene	10	8.2	82	69-108
207-08-9	Benzo(k)fluoranthene	10	8.2	82	69-109
218-01-9	Chrysene	10	8.2	82	70-106
53-70-3	Dibenzo(a,h)anthracene	10	8.7	87	69-108
206-44-0	Fluoranthene	20	15.0	75	65-104
86-73-7	Fluorene	20	14.6	73	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.3	83	69-108
91-20-3	Naphthalene	20	13.5	68	52-91
90-12-0	1-Methylnaphthalene	20	14.1	71	54-94
91-57-6	2-Methylnaphthalene	20	13.7	69	55-94
85-01-8	Phenanthrene	20	14.8	74	62-102
129-00-0	Pyrene	20	15.9	80	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	74%	36-114%
92-94-4	p-Terphenyl	86%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-MS	PP011060.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
OP15629-MSD	PP011061.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
F38104-1	PP011059.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38104-1, F38104-2, F38104-3

CAS No.	Compound	F38104-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	27.3	71	27.6	72	1	42-119/25
208-96-8	Acenaphthylene	ND		38.5	29.6	77	29.8	77	1	40-121/25
120-12-7	Anthracene	ND		19.2	14.8	77	14.8	77	0	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	14.8	77	15.0	78	1	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	15.1	79	15.2	79	1	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	15.0	78	15.3	80	2	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	14.6	76	14.9	77	2	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	14.9	77	15.2	79	2	66-111/15
218-01-9	Chrysene	ND		19.2	15.0	78	15.2	79	1	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	15.7	82	16.1	84	3	66-111/14
206-44-0	Fluoranthene	ND		38.5	30.3	79	30.6	80	1	64-107/16
86-73-7	Fluorene	ND		38.5	28.6	74	28.8	75	1	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	15.0	78	15.3	80	2	65-112/15
91-20-3	Naphthalene	ND		38.5	26.1	68	26.3	68	1	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	26.2	68	26.5	69	1	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	25.7	67	25.9	67	1	43-106/25
85-01-8	Phenanthrene	ND		38.5	31.6	82	31.8	83	1	59-105/20
129-00-0	Pyrene	ND		38.5	32.3	84	32.3	84	0	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F38104-1	Limits
84-15-1	o-Terphenyl	73%	74%	74%	36-114%
92-94-4	p-Terphenyl	77%	77%	71%	31-121%

Duplicate Summary

Job Number: F38104
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-DUP	PP011063.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
F38104-2	PP011062.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38104-1, F38104-2, F38104-3

CAS No.	Compound	F38104-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-20-3	Naphthalene	ND		ND		nc	
90-12-0	1-Methylnaphthalene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	ND		ND		nc	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F38104-2	Limits
84-15-1	o-Terphenyl	80%	80%	36-114%
92-94-4	p-Terphenyl	84%	83%	31-121%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38104
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7433/GN19615	2.0	<2.0	mg/l	50	49.3	98.6	90-110%
Fluoride	GP7433/GN19616	0.20	<0.20	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrate	GP7433/GN19615	0.10	<0.10	mg/l	2.5	2.55	102.0	90-110%
Nitrogen, Nitrite	GP7433/GN19615	0.10	<0.10	mg/l	2.5	2.30	92.0	90-110%
Sulfate	GP7433/GN19615	2.0	<2.0	mg/l	50	48.8	97.6	90-110%
Total Organic Carbon	GP7449/GN19635	1.0	<1.0	mg/l	15	15.2	101.3	90-110%

Associated Samples:
Batch GP7433: F38104-1, F38104-2, F38104-3
Batch GP7449: F38104-1, F38104-2, F38104-3

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38104
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7433/GN19615	F38087-1	mg/l	9.0	9.0	0.0	0-20%
Chloride	GP7433/GN19646	F38106-4	mg/l	458	458	0.0	0-20%
Fluoride	GP7433/GN19615	F38106-4	mg/l	0.22	0.20	200.0(a)	0-20%
Fluoride	GP7433/GN19615	F38106-4	mg/l	1.0 U	0.20	200.0(a)	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.32	0.32	0.0	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.4	2.5	4.1	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.050 U	<0.10	0.0	0-20%
Sulfate	GP7433/GN19615	F38087-1	mg/l	9.0	9.0	0.0	0-20%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1510	1500	0.7	0-20%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	<1.0	1.2	0-20%

Associated Samples:
Batch GP7433: F38104-1, F38104-2, F38104-3
Batch GP7449: F38104-1, F38104-2, F38104-3
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38104
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7433/GN19615	F38087-1	mg/l	9.0	50	54.4	90.8	90-110%
Chloride	GP7433/GN19646	F38106-4	mg/l	458	50	437	-42.0(a)	90-110%
Fluoride	GP7433/GN19615	F38106-4	mg/l	0.22	2.5	2.7	108.0	90-110%
Fluoride	GP7433/GN19615	F38106-4	mg/l	1.0 U	2.5	2.7	108.0	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.32	2.5	2.8	99.2	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.4	2.5	4.6	88.0N	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.050 U	2.5	3.6	144.0N	90-110%
Sulfate	GP7433/GN19615	F38087-1	mg/l	9.0	50	49.8	81.6N(b)	90-110%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1510	50	1310	-400.0(a)	90-110%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	15	16.0	101.3	75-125%

Associated Samples:
Batch GP7433: F38104-1, F38104-2, F38104-3
Batch GP7449: F38104-1, F38104-2, F38104-3
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/20/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-NW

119909

Accutest Job Number: F44150

Sampling Date: 10/02/06

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 65

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

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

Shaw E & I, Inc.

Job No: F44150

Camp Lejeune-NW
Project No: 119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44150-1	10/02/06	08:30	RK	10/03/06	AQ	Ground Water	UST1115-MW02
F44150-2	10/02/06	09:00	RK	10/03/06	AQ	Ground Water	UST1115-MW21
F44150-3	10/02/06	10:00	RK	10/03/06	AQ	Ground Water	UST1115-MW24
F44150-4	10/02/06	10:30	RK	10/03/06	AQ	Ground Water	UST1115-MW04
F44150-5	10/02/06	11:30	RK	10/03/06	AQ	Ground Water	UST1115-MW17
F44150-6	10/02/06	12:30	RK	10/03/06	AQ	Ground Water	UST1115-MW22
F44150-7	10/02/06	13:30	RK	10/03/06	AQ	Ground Water	UST1115-MW23
F44150-8	10/02/06	14:15	RK	10/03/06	AQ	Ground Water	IR79-GW22-2
F44150-9	10/02/06	15:00	RK	10/03/06	AQ	Ground Water	UST1115GT-MW09
F44150-10	10/02/06	00:00	RK	10/03/06	AQ	Trip Blank Water	TRIP BLANK 100206

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F44150-1	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019268.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	28.3	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	97%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F44150-1	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023596.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.03	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F44150-1	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043454.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		36-114%
92-94-4	p-Terphenyl	95%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F44150-1	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.32	0.10	mg/l	1	10/03/06 15:01	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.32	0.20	mg/l	1	10/03/06 15:01	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/03/06 15:01	MP	EPA 300/SW846 9056
Sulfate	38.9	2.0	mg/l	1	10/03/06 15:01	MP	EPA 300/SW846 9056
Total Organic Carbon	1.0	1.0	mg/l	1	10/04/06 11:16	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F44150-2	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019256.D	2	10/13/06	AF	n/a	n/a	GQQ743
Run #2 [a]	QQ019293.D	5	10/16/06	AF	n/a	n/a	GQQ744

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	197 [b]	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	1.0	ug/l	
108-88-3	Toluene	1.1	2.0	1.0	ug/l	J
1330-20-7	Xylenes (total)	ND	6.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F44150-2	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023597.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	7.51	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F44150-2	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043457.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.8	1.9	0.95	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
92-94-4	p-Terphenyl	92%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F44150-2	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.10	0.10	mg/l	1	10/03/06 15:18	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 15:18	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 15:18	MP	EPA 300/SW846 9056
Sulfate	37.1	2.0	mg/l	1	10/03/06 15:18	MP	EPA 300/SW846 9056
Total Organic Carbon	<1.0	1.0	mg/l	1	10/04/06 11:31	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F44150-3	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019301.D	50	10/16/06	AF	n/a	n/a	GQQ744
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2250	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	ND	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F44150-3	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023598.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	82.0	0.50	0.30	ug/l	
74-84-0	Ethane	3.60	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F44150-3	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043458.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	92%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F44150-3	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/03/06 15:36	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/03/06 15:36	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/03/06 15:36	MP	EPA 300/SW846 9056
Sulfate [b]	389	2.0	mg/l	1	10/03/06 15:36	MP	EPA 300/SW846 9056
Total Organic Carbon	6.3	1.0	mg/l	1	10/04/06 11:46	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Estimated value, above calibration range.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F44150-4	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019269.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	56.6	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F44150-4	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023599.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	64.8	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F44150-4	Date Sampled:	10/02/06
Matrix:	AQ - Ground Water	Date Received:	10/03/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043459.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	83%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F44150-4	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/06 15:54	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 15:54	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 15:54	MP	EPA 300/SW846 9056
Sulfate	39.0	2.0	mg/l	1	10/03/06 15:54	MP	EPA 300/SW846 9056
Total Organic Carbon	1.4	1.0	mg/l	1	10/04/06 12:00	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F44150-5	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019270.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2 [a]	QQ019292.D	5	10/16/06	AF	n/a	n/a	GQQ744

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	168 [b]	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	4.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	4.0	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	104%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F44150-5	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023600.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	46.3	0.50	0.30	ug/l	
74-84-0	Ethane	1.3	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F44150-5	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043460.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	12.2	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	6.4	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	2.4	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	8.3	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	11.6	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	89%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F44150-5	Date Sampled:	10/02/06
Matrix:	AQ - Ground Water	Date Received:	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/06 16:11	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 16:11	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 16:11	MP	EPA 300/SW846 9056
Sulfate [b]	3190	20	mg/l	10	10/06/06 10:24	MP	EPA 300/SW846 9056
Total Organic Carbon	12.5	1.0	mg/l	1	10/04/06 13:03	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Estimated value, above calibration range.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F44150-6	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019262.D	20	10/14/06	AF	n/a	n/a	GQQ743
Run #2 [a]	QQ019297.D	50	10/16/06	AF	n/a	n/a	GQQ744

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3880 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	35.7	20	10	ug/l	
1330-20-7	Xylenes (total)	32.6	60	20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	104%	71-130%
98-08-8	aaa-Trifluorotoluene	98%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F44150-6	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023601.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	103	0.50	0.30	ug/l	
74-84-0	Ethane	31.7	1.0	0.60	ug/l	
74-85-1	Ethene	9.21	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F44150-6	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043461.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.1	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		36-114%
92-94-4	p-Terphenyl	86%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F44150-6	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/06 16:29	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 16:29	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 16:29	MP	EPA 300/SW846 9056
Sulfate	6.4	2.0	mg/l	1	10/03/06 16:29	MP	EPA 300/SW846 9056
Total Organic Carbon	6.9	1.0	mg/l	1	10/04/06 13:17	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F44150-7	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019294.D	20	10/16/06	AF	n/a	n/a	GQQ744
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1910	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	49.6	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	198	20	10	ug/l	
1330-20-7	Xylenes (total)	96.4	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F44150-7	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023602.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	46.7	0.50	0.30	ug/l	
74-84-0	Ethane	1.5	1.0	0.60	ug/l	
74-85-1	Ethene	1.1	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F44150-7	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043462.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.0	1.9	0.95	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	90%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F44150-7	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/06 16:47	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 16:47	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 16:47	MP	EPA 300/SW846 9056
Sulfate	980	20	mg/l	10	10/06/06 10:42	MP	EPA 300/SW846 9056
Total Organic Carbon	29.9	2.0	mg/l	2	10/05/06 13:01	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	IR79-GW22-2		
Lab Sample ID:	F44150-8	Date Sampled:	10/02/06
Matrix:	AQ - Ground Water	Date Received:	10/03/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019271.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	98.3	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.3	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	18.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	12.9	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	IR79-GW22-2		
Lab Sample ID:	F44150-8	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023603.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	57.8	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	IR79-GW22-2		
Lab Sample ID:	F44150-8	Date Sampled:	10/02/06
Matrix:	AQ - Ground Water	Date Received:	10/03/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043465.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	87%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	IR79-GW22-2		
Lab Sample ID:	F44150-8	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/03/06 17:04	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/03/06 17:04	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/03/06 17:04	MP	EPA 300/SW846 9056
Sulfate	119	2.0	mg/l	1	10/03/06 17:04	MP	EPA 300/SW846 9056
Total Organic Carbon	3.5	1.0	mg/l	1	10/04/06 13:47	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F44150-9	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019290.D	1	10/16/06	AF	n/a	n/a	GQQ744
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.7	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.2	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.8	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F44150-9	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023604.D	1	10/05/06	TD	n/a	n/a	GXY913
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	27.4	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F44150-9	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043466.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		36-114%
92-94-4	p-Terphenyl	89%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F44150-9	**Date Sampled:**	10/02/06
Matrix:	AQ - Ground Water	**Date Received:**	10/03/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/06 17:22	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/03/06 17:22	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/06 17:22	MP	EPA 300/SW846 9056
Sulfate	96.5	2.0	mg/l	1	10/03/06 17:22	MP	EPA 300/SW846 9056
Total Organic Carbon	2.6	1.0	mg/l	1	10/04/06 14:02	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK 100206		
Lab Sample ID:	F44150-10	**Date Sampled:**	10/02/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/03/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ019274.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44150

CHAIN-OF-CUSTODY RECORD

COC Number:
119909-NW-100206

Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3-N,NO_2-N,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1	Analysis Desired
1	USTHPFF-MW02	10/2/06	8:30		X	USTHPFF-MW02	11	X	X	X	X	X	X	
2	USTHPFF-MW21	10/2/06	9:00		X	USTHPFF-MW21	11	X	X	X	X	X	X	
3	USTHPFF-MW24	10/2/06	10:00		X	USTHPFF-MW24	11	X	X	X	X	X	X	
4	USTHPFF-MW04	10/2/06	10:30		X	USTHPFF-MW04	11	X	X	X	X	X	X	
5	USTHPFF-MW17	10/2/06	11:30		X	USTHPFF-MW17	11	X	X	X	X	X	X	
6	USTHPFF-MW22	10/2/06	12:30		X	USTHPFF-MW22	11	X	X	X	X	X	X	
7	USTHPFF-MW23	10/2/06	13:30		X	USTHPFF-MW23	11	X	X	X	X	X	X	
8	IR79-GW22-2	10/2/06	14:15		X	IR79-GW22-2	11	X	X	X	X	X	X	
9	UST1115GT-MW09	10/2/06	15:00		X	UST1115GT-MW09	11	X	X	X	X	X	X	
10	Trip Blank 100206	10/2/06	—		X	Trip Blank 100206	2	X						

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 10		FedEx 8580 9991 2424, 8580 9991 2457, 8580 9991 2479	10/2/06	16:00	14 Day TAT
2		Fx	Jorge Cord	10-3-06	09:30	
3						3.2 3.4 2.8

F44150: Chain of Custody
Page 1 of 3

ACCUTEST
F44150

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44150 CLIENT: SHAW PROJECT: CAMP LEJEUNE

DATE/TIME RECEIVED: 10-3-06 09:00 # OF COOLERS RECEIVED: 3 COOLER TEMPS: 3.2 3.4 2.8

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

AIRBILL NUMBERS: 8580 9991 2457

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S

MISC. INFORMATION

NUMBER OF ENCORES ? ϕ

NUMBER OF 5035 FIELD KITS ? ϕ

NUMBER OR LAB FILTERED METALS ? ϕ

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 10-3-06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

3.1

3

F44150: Chain of Custody
Page 2 of 3

F44150

CHAIN-OF-CUSTODY RECORD

COC Number:
119909-NW-100206

Shaw
Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3-N,NO_2-N,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1							
							Analysis Desired													
1	UST1115-MW02	10/2/06	8:30		X	UST1115-MW02	11	X	X	X	X	X	X							
2	UST1115-MW21	10/2/06	9:00		X	UST1115-MW21	11	X	X	X	X	X	X							
3	UST1115-MW24	10/2/06	10:00		X	UST1115-MW24	11	X	X	X	X	X	X							
4	UST1115-MW04	10/2/06	10:30		X	UST1115-MW04	11	X	X	X	X	X	X							
5	UST1115-MW17	10/2/06	11:30		X	UST1115-MW17	11	X	X	X	X	X	X							
6	UST1115-MW22	10/2/06	12:30		X	UST1115-MW22	11	X	X	X	X	X	X							
7	UST1115-MW23	10/2/06	13:30		X	UST1115-MW23	11	X	X	X	X	X	X							
8	IR79-GW22-2	10/2/06	14:15		X	IR79-GW22-2	11	X	X	X	X	X	X							
9	UST1115GT-MW09	10/2/06	15:00		X	UST1115GT-MW09	11	X	X	X	X	X	X							
10	Trip Blank 100206	10/2/06			X	Trip Blank 100206	2	X												

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 10		FedEx 8580 9991 2424, 8580 9991 2457, 8580 9991 2479	10/2/06	16:00	14 Day TAT
2						
3						

F44150: Chain of Custody
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ACCUTEST LABORATORIES
F44150

4

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-MB	QQ019261.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: **Method:** EPA 601/602

F44150-1, F44150-2, F44150-4, F44150-5, F44150-6, F44150-8, F44150-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Method Blank Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-MB	QQ019289.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44150-2, F44150-3, F44150-5, F44150-6, F44150-7, F44150-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY913-MB	XY023584.D	1	10/05/06	TD	n/a	n/a	GXY913

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-BS	QQ019254.D	1	10/13/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44150-1, F44150-2, F44150-4, F44150-5, F44150-6, F44150-8, F44150-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	81-121
108-90-7	Chlorobenzene	20	20.0	100	76-120
95-50-1	1,2-Dichlorobenzene	20	19.1	96	63-127
541-73-1	1,3-Dichlorobenzene	20	20.1	101	70-124
106-46-7	1,4-Dichlorobenzene	20	20.7	104	68-121
100-41-4	Ethylbenzene	20	20.7	104	79-124
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	73-118
108-88-3	Toluene	20	21.5	108	79-122
1330-20-7	Xylenes (total)	60	62.5	104	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	71-124%

Blank Spike Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-BS	QQ019288.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44150-2, F44150-3, F44150-5, F44150-6, F44150-7, F44150-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.8	104	81-121
108-90-7	Chlorobenzene	20	20.6	103	76-120
95-50-1	1,2-Dichlorobenzene	20	19.8	99	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	21.4	107	68-121
100-41-4	Ethylbenzene	20	21.2	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.8	94	73-118
108-88-3	Toluene	20	20.9	105	79-122
1330-20-7	Xylenes (total)	60	63.6	106	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	71-124%

Blank Spike Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY913-BS	XY023585.D	1	10/05/06	TD	n/a	n/a	GXY913

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	80.3	74	60-135
74-84-0	Ethane	219	180	82	64-141
74-85-1	Ethene	290	234	81	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44150-8MS	QQ019282.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8MSD	QQ019283.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8 [a]	QQ019271.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44150-1, F44150-2, F44150-4, F44150-5, F44150-6, F44150-8, F44150-10

CAS No.	Compound	F44150-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	98.3		20	119	104	120	109	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.7	99	19.8	99	1	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	18.9	95	18.6	93	2	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.8	99	19.7	99	1	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	20.3	102	20.2	101	0	61-133/11
100-41-4	Ethylbenzene	6.3		20	26.5	101	26.6	102	0	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.0	90	18.3	92	2	63-130/11
108-88-3	Toluene	18.1		20	38.0	100	38.3	101	1	69-132/7
1330-20-7	Xylenes (total)	12.9		60	72.8	100	73.0	100	0	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44150-8	Limits
460-00-4	4-Bromofluorobenzene	105%	110%	102%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	99%	93%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-2MS	QQ019312.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2MSD	QQ019313.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2 [a]	QQ019307.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44150-2, F44150-3, F44150-5, F44150-6, F44150-7, F44150-9

CAS No.	Compound	F44334-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.1		20	23.6	98	23.3	96	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.6	98	19.3	97	2	72-124/8
95-50-1	1,2-Dichlorobenzene	21.6		20	22.9	6*	22.7	5*	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	20.5	103	20.1	101	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	21.3	107	20.9	105	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.3	102	19.9	100	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	93.2		20	113	99	110	84	3	63-130/11
108-88-3	Toluene	0.87	J	20	21.6	104	21.1	101	2	69-132/7
1330-20-7	Xylenes (total)	38.9		60	97.8	98	96.0	95	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44334-2	Limits
460-00-4	4-Bromofluorobenzene	110%	114%		71-130%
98-08-8	aaa-Trifluorotoluene	92%	96%		71-124%

(a) Confirmation run.

Matrix Spike Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44150-2MS	XY023611.D	1	10/05/06	TD	n/a	n/a	GXY913
F44150-2	XY023597.D	1	10/05/06	TD	n/a	n/a	GXY913

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	F44150-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	7.51		108	107	92	30-162
74-84-0	Ethane	ND		219	237	108	54-160
74-85-1	Ethene	ND		290	309	107	53-159

Duplicate Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44072-11DUP	XY023609.D	2	10/05/06	TD	n/a	n/a	GXY913
F44072-11	XY023591.D	1	10/05/06	TD	n/a	n/a	GXY913
F44072-11	XY023608.D	2	10/05/06	TD	n/a	n/a	GXY913

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	F44072-11 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1770 [a]		1680		5	27
74-84-0	Ethane	1.0 U		ND		nc	19
74-85-1	Ethene	9.27		8.59		8	18

(a) Result is from Run #2.

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	EE043450.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Method Blank Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	PP015802.D	1	10/12/06	MRE	10/06/06	OP18083	GPP564

The QC reported here applies to the following samples: Method: EPA 610

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	90%	31-121%

Blank Spike Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-BS	EE043449.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	16.5	83	60-98
208-96-8	Acenaphthylene	20	17.6	88	57-97
120-12-7	Anthracene	10	8.3	83	68-103
56-55-3	Benzo(a)anthracene	10	9.1	91	68-106
50-32-8	Benzo(a)pyrene	10	9.1	91	70-108
205-99-2	Benzo(b)fluoranthene	10	9.3	93	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.2	92	69-108
207-08-9	Benzo(k)fluoranthene	10	9.1	91	69-109
218-01-9	Chrysene	10	9.3	93	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.4	94	69-108
206-44-0	Fluoranthene	20	18.4	92	65-104
86-73-7	Fluorene	20	17.1	86	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.1	91	69-108
91-20-3	Naphthalene	20	14.8	74	52-91
90-12-0	1-Methylnaphthalene	20	15.3	77	54-94
91-57-6	2-Methylnaphthalene	20	14.9	75	55-94
85-01-8	Phenanthrene	20	17.9	90	62-102
129-00-0	Pyrene	20	18.1	91	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	36-114%
92-94-4	p-Terphenyl	93%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44150
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MS	EE043463.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
OP18083-MSD	EE043464.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
F44150-7 [a]	EE043462.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

CAS No.	Compound	F44150-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	32.5	84	35.0	91	7	42-119/25
208-96-8	Acenaphthylene	ND		38.5	35.0	91	37.4	97	7	40-121/25
120-12-7	Anthracene	ND		19.2	16.4	85	17.7	92	8	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	17.4	90	18.5	96	6	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.4	90	18.3	95	5	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	17.9	93	18.9	98	5	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	17.6	92	18.7	97	6	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	17.4	90	18.4	96	6	66-111/15
218-01-9	Chrysene	ND		19.2	17.8	93	18.8	98	5	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.8	93	18.8	98	5	66-111/14
206-44-0	Fluoranthene	ND		38.5	35.7	93	38.0	99	6	64-107/16
86-73-7	Fluorene	ND		38.5	33.2	86	35.9	93	8	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	18.3	95	6	65-112/15
91-20-3	Naphthalene	1.0	J	38.5	29.9	75	31.4	79	5	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	30.7	80	32.6	85	6	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	29.9	78	31.7	82	6	43-106/25
85-01-8	Phenanthrene	ND		38.5	34.8	90	37.5	97	7	59-105/20
129-00-0	Pyrene	ND		38.5	35.1	91	37.3	97	6	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F44150-7	Limits
84-15-1	o-Terphenyl	87%	92%	87%	36-114%
92-94-4	p-Terphenyl	90%	95%	90%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44150
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8458/GN22413	2.0	<2.0	mg/l	50	48.5	97.0	90-110%
Fluoride	GP8458/GN22413	0.20	<0.20	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrate	GP8458/GN22413	0.10	<0.10	mg/l	3.5	3.29	94.0(a)	90-110%
Nitrogen, Nitrite	GP8458/GN22413	0.10	<0.10	mg/l	2.5	2.32	92.8	90-110%
Sulfate	GP8458/GN22413	2.0	<2.0	mg/l	50	45.9	91.8	90-110%
Total Organic Carbon	GP8451/GN22402	1.0	<1.0	mg/l	15	14.1	94.0	90-110%

Associated Samples:
Batch GP8451: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9
Batch GP8458: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9
(a) T.V. = 3.5 ppm

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44150
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8458/GN22423	F44141-4	mg/l	60.4	67.7	11.4	0-20%
Chloride	GP8458/GN22423	F44141-5	mg/l	62.2	70.6	12.7	0-20%
Fluoride	GP8458/GN22423	F44141-4	mg/l	0.80	0.80	0.0	0-20%
Fluoride	GP8458/GN22423	F44141-5	mg/l	0.65	0.61	6.3	0-20%
Nitrogen, Nitrate	GP8458/GN22423	F44141-4	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP8458/GN22423	F44141-5	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8458/GN22423	F44141-4	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8458/GN22423	F44141-5	mg/l	0.050 U	<0.10	0.0	0-20%
Sulfate	GP8458/GN22423	F44141-4	mg/l	62.2	72.5	15.3	0-20%
Sulfate	GP8458/GN22423	F44141-5	mg/l	12.0	10.2	16.2	0-20%
Total Organic Carbon	GP8451/GN22402	F44150-1	mg/l	1.0	<1.0	2.0	0-20%

Associated Samples:
Batch GP8451: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9
Batch GP8458: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44150
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8458/GN22423	F44141-4	mg/l	60.4	50	114	107.2	90-110%
Chloride	GP8458/GN22423	F44141-5	mg/l	62.2	50	117	109.6	90-110%
Fluoride	GP8458/GN22423	F44141-4	mg/l	0.80	2.5	3.4	104.0	90-110%
Fluoride	GP8458/GN22423	F44141-5	mg/l	0.65	2.5	3.3	106.0	90-110%
Nitrogen, Nitrate	GP8458/GN22423	F44141-4	mg/l	0.050 U	2.5	2.7	108.0	90-110%
Nitrogen, Nitrate	GP8458/GN22423	F44141-5	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Nitrogen, Nitrite	GP8458/GN22423	F44141-4	mg/l	0.050 U	2.5	5.3	212.0N(a)	90-110%
Nitrogen, Nitrite	GP8458/GN22423	F44141-5	mg/l	0.050 U	2.5	5.2	208.0N(a)	90-110%
Sulfate	GP8458/GN22423	F44141-4	mg/l	62.2	50	121	117.6N(a)	90-110%
Sulfate	GP8458/GN22423	F44141-5	mg/l	12.0	50	63.8	103.6	90-110%
Total Organic Carbon	GP8451/GN22402	F44150-1	mg/l	1.0	15	13.9	86.0	75-125%

Associated Samples:
Batch GP8451: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9
Batch GP8458: F44150-1, F44150-2, F44150-3, F44150-4, F44150-5, F44150-6, F44150-7, F44150-8, F44150-9
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/20/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-NW

PO#119909

Accutest Job Number: F44204

Sampling Date: 10/03/06

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 44

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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

Shaw E & I, Inc.

Job No: F44204

Camp Lejeune-NW
Project No: PO#119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44204-1	10/03/06	12:30	MM	10/04/06	AQ	Ground Water	UST1115-MW25
F44204-2	10/03/06	13:30	MM	10/04/06	AQ	Ground Water	UST1115-MW13
F44204-3	10/03/06	14:30	MM	10/04/06	AQ	Ground Water	UST1115GT-MW01
F44204-4	10/03/06	15:00	MM	10/04/06	AQ	Ground Water	UST1115-MW01
F44204-5	10/03/06	00:00	MM	10/04/06	AQ	Ground Water	TRIP BLANK 100306

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F44204-1	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019266.D	100	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5160	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
100-41-4	Ethylbenzene	54.6	100	50	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
108-88-3	Toluene	285	100	50	ug/l	
1330-20-7	Xylenes (total)	174	300	100	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	95%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F44204-1	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023630.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	306	0.50	0.30	ug/l	
74-84-0	Ethane	45.9	1.0	0.60	ug/l	
74-85-1	Ethene	17.4	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F44204-1	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043469.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		36-114%
92-94-4	p-Terphenyl	88%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F44204-1	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	< 0.10	0.10	mg/l	1	10/05/06 13:48	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [b]	< 0.20	0.20	mg/l	1	10/05/06 13:48	MP	SM18 4500NO3E
Nitrogen, Nitrite [a]	< 0.10	0.10	mg/l	1	10/05/06 13:48	MP	EPA 300/SW846 9056
Sulfate	6.2	2.0	mg/l	1	10/05/06 13:48	MP	EPA 300/SW846 9056
Total Organic Carbon	9.8	1.0	mg/l	1	10/05/06 16:12	LE	EPA 415.1

(a) Sample was prepped within 48 hours of collection, but analyzed beyond hold time.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F44204-2	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019300.D	10	10/16/06	AF	n/a	n/a	GQQ744
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	278	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	26.6	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
108-88-3	Toluene	25.7	10	5.0	ug/l	
1330-20-7	Xylenes (total)	32.0	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		71-130%
98-08-8	aaa-Trifluorotoluene	97%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F44204-2	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023631.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	67.0	0.50	0.30	ug/l	
74-84-0	Ethane	3.63	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F44204-2	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043470.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	7.5	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	1.4	1.9	0.95	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	68.1	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	11.5	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	18.3	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	88%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F44204-2	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	< 0.10	0.10	mg/l	1	10/05/06 14:05	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [b]	< 0.20	0.20	mg/l	1	10/05/06 14:05	MP	SM18 4500NO3E
Nitrogen, Nitrite [a]	< 0.10	0.10	mg/l	1	10/05/06 14:05	MP	EPA 300/SW846 9056
Sulfate	2980	20	mg/l	10	10/13/06 02:26	MP	EPA 300/SW846 9056
Total Organic Carbon	20.7	1.0	mg/l	1	10/05/06 16:27	LE	EPA 415.1

(a) Sample was prepped within 48 hours of collection, but analyzed beyond hold time.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F44204-3	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019263.D	20	10/14/06	AF	n/a	n/a	GQQ743
Run #2 [a]	QQ019296.D	50	10/16/06	AF	n/a	n/a	GQQ744

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2720 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	478	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	480	20	10	ug/l	
1330-20-7	Xylenes (total)	189	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F44204-3	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023632.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	44.9	0.50	0.30	ug/l	
74-84-0	Ethane	0.61	1.0	0.60	ug/l	J
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F44204-3	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043471.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.7	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	79%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F44204-3	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	0.18	0.10	mg/l	1	10/05/06 14:23	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [b]	<0.20	0.20	mg/l	1	10/05/06 14:23	MP	SM18 4500NO3E
Nitrogen, Nitrite [a]	<0.10	0.10	mg/l	1	10/05/06 14:23	MP	EPA 300/SW846 9056
Sulfate	62.3	2.0	mg/l	1	10/05/06 14:23	MP	EPA 300/SW846 9056
Total Organic Carbon	1.7	1.0	mg/l	1	10/05/06 16:42	LE	EPA 415.1

(a) Sample was prepped within 48 hours of collection, but analyzed beyond hold time.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F44204-4	Date Sampled:	10/03/06
Matrix:	AQ - Ground Water	Date Received:	10/04/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019280.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2 [a]	QQ019291.D	2	10/16/06	AF	n/a	n/a	GQQ744

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	163 [b]	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	30.3	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	43.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	18.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F44204-4	Date Sampled:	10/03/06
Matrix:	AQ - Ground Water	Date Received:	10/04/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023633.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.89	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F44204-4	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043472.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.1	1.9	0.95	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		36-114%
92-94-4	p-Terphenyl	65%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW01		
Lab Sample ID:	F44204-4	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate [a]	3.5	0.10	mg/l	1	10/05/06 14:41	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [b]	3.5	0.20	mg/l	1	10/05/06 14:41	MP	SM18 4500NO3E
Nitrogen, Nitrite [a]	< 0.10	0.10	mg/l	1	10/05/06 14:41	MP	EPA 300/SW846 9056
Sulfate	43.1	2.0	mg/l	1	10/05/06 14:41	MP	EPA 300/SW846 9056
Total Organic Carbon	< 1.0	1.0	mg/l	1	10/05/06 16:56	LE	EPA 415.1

(a) Sample was prepped within 48 hours of collection, but analyzed beyond hold time.
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK 100306		
Lab Sample ID:	F44204-5	**Date Sampled:**	10/03/06
Matrix:	AQ - Ground Water	**Date Received:**	10/04/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ019281.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		71-130%
98-08-8	aaa-Trifluorotoluene	91%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44204

CHAIN-OF-CUSTODY RECORD

COC Number:
119909-NW-100306

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390 | Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	UST1115-MW25	10/3/06	12:30		X	UST1115-MW25	11	X	X	X	X	X	X
2	UST1115-MW13	10/3/06	13:30		X	UST1115-MW13	11	X	X	X	X	X	X
3	UST1115GT-MW01	10/3/06	14:30		X	UST1115GT-MW01	11	X	X	X	X	X	X
4	UST1115-MW01	10/3/06	15:00		X	UST1115-MW01	11	X	X	X	X	X	X
5	Trip Blank 100306	10/3/06			X	Trip Blank 100306	2	X					
6													
7													
8													
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 5	[signature]	FedEx 8580 9991 2446	10/3/06	16:00
2		FX	George Corol	10-4-06	09:00
3					

Remarks

14 Day TAT

4.8

F44204: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES
F44204

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44204 CLIENT: SHAW PROJECT: CAMP LEJEUNE - NW

DATE/TIME RECEIVED: 10-4-06 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 4.8

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

AIRBILL NUMBERS: 8580 9991 2446

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S

MISC. INFORMATION

NUMBER OF ENCORES ? ϕ

NUMBER OF 5035 FIELD KITS ? ϕ

NUMBER OR LAB FILTERED METALS ? ϕ

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 10-4-06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

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F44204: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-MB	QQ019261.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-1, F44204-3, F44204-4, F44204-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Method Blank Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-MB	QQ019289.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-2, F44204-3, F44204-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY915-MB	XY023628.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-BS	QQ019254.D	1	10/13/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-1, F44204-3, F44204-4, F44204-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	81-121
108-90-7	Chlorobenzene	20	20.0	100	76-120
95-50-1	1,2-Dichlorobenzene	20	19.1	96	63-127
541-73-1	1,3-Dichlorobenzene	20	20.1	101	70-124
106-46-7	1,4-Dichlorobenzene	20	20.7	104	68-121
100-41-4	Ethylbenzene	20	20.7	104	79-124
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	73-118
108-88-3	Toluene	20	21.5	108	79-122
1330-20-7	Xylenes (total)	60	62.5	104	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	71-124%

Blank Spike Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-BS	QQ019288.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-2, F44204-3, F44204-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.8	104	81-121
108-90-7	Chlorobenzene	20	20.6	103	76-120
95-50-1	1,2-Dichlorobenzene	20	19.8	99	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	21.4	107	68-121
100-41-4	Ethylbenzene	20	21.2	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.8	94	73-118
108-88-3	Toluene	20	20.9	105	79-122
1330-20-7	Xylenes (total)	60	63.6	106	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	71-124%

Blank Spike Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY915-BS	XY023629.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	137	127	60-135
74-84-0	Ethane	219	277	126	64-141
74-85-1	Ethene	290	362	125	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44150-8MS	QQ019282.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8MSD	QQ019283.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8 [a]	QQ019271.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-1, F44204-3, F44204-4, F44204-5

CAS No.	Compound	F44150-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	98.3		20	119	104	120	109	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.7	99	19.8	99	1	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	18.9	95	18.6	93	2	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.8	99	19.7	99	1	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	20.3	102	20.2	101	0	61-133/11
100-41-4	Ethylbenzene	6.3		20	26.5	101	26.6	102	0	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.0	90	18.3	92	2	63-130/11
108-88-3	Toluene	18.1		20	38.0	100	38.3	101	1	69-132/7
1330-20-7	Xylenes (total)	12.9		60	72.8	100	73.0	100	0	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44150-8	Limits
460-00-4	4-Bromofluorobenzene	105%	110%	102%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	99%	93%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-2MS	QQ019312.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2MSD	QQ019313.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2 [a]	QQ019307.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44204-2, F44204-3, F44204-4

CAS No.	Compound	F44334-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.1		20	23.6	98	23.3	96	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.6	98	19.3	97	2	72-124/8
95-50-1	1,2-Dichlorobenzene	21.6		20	22.9	6*	22.7	5*	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	20.5	103	20.1	101	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	21.3	107	20.9	105	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.3	102	19.9	100	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	93.2		20	113	99	110	84	3	63-130/11
108-88-3	Toluene	0.87	J	20	21.6	104	21.1	101	2	69-132/7
1330-20-7	Xylenes (total)	38.9		60	97.8	98	96.0	95	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44334-2	Limits
460-00-4	4-Bromofluorobenzene	110%	114%		71-130%
98-08-8	aaa-Trifluorotoluene	92%	96%		71-124%

(a) Confirmation run.

Matrix Spike Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44244-1MS	XY023648.D	1	10/10/06	TD	n/a	n/a	GXY915
F44244-1	XY023646.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	F44244-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	15.2		108	120	97	30-162
74-84-0	Ethane	ND		219	218	100	54-160
74-85-1	Ethene	ND		290	285	98	53-159

Duplicate Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44243-15DUP	XY023647.D	5	10/10/06	TD	n/a	n/a	GXY915
F44243-15	XY023636.D	2	10/10/06	TD	n/a	n/a	GXY915
F44243-15	XY023645.D	5	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	F44243-15 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	2530 [a]		2620		3	27
74-84-0	Ethane	2.0 U		ND		nc	19
74-85-1	Ethene	2.0 U		ND		nc	18

(a) Result is from Run #2.

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	EE043450.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Method Blank Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	PP015802.D	1	10/12/06	MRE	10/06/06	OP18083	GPP564

The QC reported here applies to the following samples: Method: EPA 610

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	90%	31-121%

Blank Spike Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-BS	EE043449.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	16.5	83	60-98
208-96-8	Acenaphthylene	20	17.6	88	57-97
120-12-7	Anthracene	10	8.3	83	68-103
56-55-3	Benzo(a)anthracene	10	9.1	91	68-106
50-32-8	Benzo(a)pyrene	10	9.1	91	70-108
205-99-2	Benzo(b)fluoranthene	10	9.3	93	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.2	92	69-108
207-08-9	Benzo(k)fluoranthene	10	9.1	91	69-109
218-01-9	Chrysene	10	9.3	93	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.4	94	69-108
206-44-0	Fluoranthene	20	18.4	92	65-104
86-73-7	Fluorene	20	17.1	86	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.1	91	69-108
91-20-3	Naphthalene	20	14.8	74	52-91
90-12-0	1-Methylnaphthalene	20	15.3	77	54-94
91-57-6	2-Methylnaphthalene	20	14.9	75	55-94
85-01-8	Phenanthrene	20	17.9	90	62-102
129-00-0	Pyrene	20	18.1	91	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	36-114%
92-94-4	p-Terphenyl	93%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44204
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-NW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MS	EE043463.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
OP18083-MSD	EE043464.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
F44150-7 [a]	EE043462.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44204-1, F44204-2, F44204-3, F44204-4

CAS No.	Compound	F44150-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	32.5	84	35.0	91	7	42-119/25
208-96-8	Acenaphthylene	ND		38.5	35.0	91	37.4	97	7	40-121/25
120-12-7	Anthracene	ND		19.2	16.4	85	17.7	92	8	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	17.4	90	18.5	96	6	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.4	90	18.3	95	5	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	17.9	93	18.9	98	5	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	17.6	92	18.7	97	6	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	17.4	90	18.4	96	6	66-111/15
218-01-9	Chrysene	ND		19.2	17.8	93	18.8	98	5	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.8	93	18.8	98	5	66-111/14
206-44-0	Fluoranthene	ND		38.5	35.7	93	38.0	99	6	64-107/16
86-73-7	Fluorene	ND		38.5	33.2	86	35.9	93	8	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	18.3	95	6	65-112/15
91-20-3	Naphthalene	1.0	J	38.5	29.9	75	31.4	79	5	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	30.7	80	32.6	85	6	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	29.9	78	31.7	82	6	43-106/25
85-01-8	Phenanthrene	ND		38.5	34.8	90	37.5	97	7	59-105/20
129-00-0	Pyrene	ND		38.5	35.1	91	37.3	97	6	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F44150-7	Limits
84-15-1	o-Terphenyl	87%	92%	87%	36-114%
92-94-4	p-Terphenyl	90%	95%	90%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44204
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8460/GN22477	2.0	<2.0	mg/l	50	46.9	93.8	90-110%
Nitrogen, Nitrate	GP8460/GN22477	0.10	<0.10	mg/l	2.5	2.29	91.6	90-110%
Nitrogen, Nitrite	GP8460/GN22477	0.10	<0.10	mg/l	2.5	2.27	90.8	90-110%
Sulfate	GP8460/GN22477	2.0	<2.0	mg/l	50	45.8	91.6	90-110%
Total Organic Carbon	GP8459/GN22426	1.0	<1.0	mg/l	15	14.1	94.0	90-110%

Associated Samples:
Batch GP8459: F44204-1, F44204-2, F44204-3, F44204-4
Batch GP8460: F44204-1, F44204-2, F44204-3, F44204-4

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44204
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8460/GN22477	F44193-1	mg/l	6.6	6.3	4.7	0-20%
Chloride	GP8460/GN22477	F44193-2	mg/l	6.2	6.2	0.0	0-20%
Nitrogen, Nitrate	GP8460/GN22477	F44193-1	mg/l	1.0	1.0	0.0	0-20%
Nitrogen, Nitrate	GP8460/GN22477	F44193-2	mg/l	0.46	0.47	2.2	0-20%
Nitrogen, Nitrite	GP8460/GN22477	F44193-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8460/GN22477	F44193-2	mg/l	0.10	<0.10	35.3(a)	0-20%
Sulfate	GP8460/GN22477	F44193-1	mg/l	12.7	9.7	26.8*(b)	0-20%
Sulfate	GP8460/GN22477	F44193-2	mg/l	18.1	18.1	0.0	0-20%
Total Organic Carbon	GP8459/GN22426	F44167-1	mg/l	0.50 U	<1.0	0.0	0-20%

Associated Samples:
Batch GP8459: F44204-1, F44204-2, F44204-3, F44204-4
Batch GP8460: F44204-1, F44204-2, F44204-3, F44204-4
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) High RPD due to possible nonhomogeniety between sample bottles.

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44204
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-NW

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8460/GN22477	F44193-1	mg/l	6.6	50	49.8	86.4N(a)	90-110%
Chloride	GP8460/GN22477	F44193-2	mg/l	6.2	50	48.6	84.8N(a)	90-110%
Nitrogen, Nitrate	GP8460/GN22477	F44193-1	mg/l	1.0	2.5	3.3	92.0	90-110%
Nitrogen, Nitrate	GP8460/GN22477	F44193-2	mg/l	0.46	2.5	2.7	89.6N(a)	90-110%
Nitrogen, Nitrite	GP8460/GN22477	F44193-1	mg/l	<0.10	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP8460/GN22477	F44193-2	mg/l	0.10	2.5	2.3	88.0N(a)	90-110%
Sulfate	GP8460/GN22477	F44193-1	mg/l	12.7	50	41.2	57.0N(a)	90-110%
Sulfate	GP8460/GN22477	F44193-2	mg/l	18.1	50	40.7	45.2N(a)	90-110%
Total Organic Carbon	GP8459/GN22426	F44167-1	mg/l	0.50 U	15	14.4	96.0	75-125%

Associated Samples:
Batch GP8459: F44204-1, F44204-2, F44204-3, F44204-4
Batch GP8460: F44204-1, F44204-2, F44204-3, F44204-4
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/12/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-HPFF

119909

Accutest Job Number: F44334

Sampling Date: 10/09/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 39

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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

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Accutest LabLink@56290 08:55 12-Nov-2006

Sample Summary

Shaw E & I, Inc.

Job No: F44334

Camp Lejeune-HPFF
Project No: 119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44334-1	10/09/06	11:00	MM	10/10/06	AQ	Ground Water	UST1115GT-MW07
F44334-2	10/09/06	11:45	MM	10/10/06	AQ	Ground Water	USTHPFF-MW11
F44334-3	10/09/06	00:00	MM	10/10/06	AQ	Trip Blank Water	TRIP BLANK 100906

Sample Results

Report of Analysis

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F44334-1	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019306.D	1	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019326.D	5	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	220 [b]	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	2.1	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%	106%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	93%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F44334-1	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023672.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3.51	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F44334-1	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA030941.D	1	10/17/06	MRE	10/16/06	OP18175	GAA1379
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	86%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	UST1115GT-MW07		
Lab Sample ID:	F44334-1	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
		Percent Solids:	n/a
Project:	Camp Lejeune-HPFF		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.65	0.10	mg/l	1	10/10/06 15:03	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.65	0.20	mg/l	1	10/10/06 15:03	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/10/06 15:03	MP	EPA 300/SW846 9056
Sulfate	124	2.0	mg/l	1	10/10/06 15:03	MP	EPA 300/SW846 9056
Total Organic Carbon	2.8	1.0	mg/l	1	10/11/06 12:43	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F44334-2	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019323.D	1	10/17/06	AF	n/a	n/a	GQQ745
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.7	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	4.0	4.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	93.3	1.0	0.50	ug/l	
108-88-3	Toluene	0.95	1.0	0.50	ug/l	J
1330-20-7	Xylenes (total)	36.0	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F44334-2	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023673.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F44334-2	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA030942.D	1	10/17/06	MRE	10/16/06	OP18175	GAA1379
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		36-114%
92-94-4	p-Terphenyl	86%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F44334-2	**Date Sampled:**	10/09/06
Matrix:	AQ - Ground Water	**Date Received:**	10/10/06
		Percent Solids:	n/a
Project:	Camp Lejeune-HPFF		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/10/06 15:21	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/10/06 15:21	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/10/06 15:21	MP	EPA 300/SW846 9056
Sulfate	203	2.0	mg/l	1	10/10/06 15:21	MP	EPA 300/SW846 9056
Total Organic Carbon	6.8	1.0	mg/l	1	10/11/06 12:58	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@56290 08:55 12-Nov-2006

Report of Analysis

Client Sample ID:	TRIP BLANK 100906		
Lab Sample ID:	F44334-3	**Date Sampled:**	10/09/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/10/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ019365.D	1	10/18/06	AF	n/a	n/a	GQQ746
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44334

CHAIN-OF-CUSTODY RECORD

COC Number:
119909-NW-100906

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390 | Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - HPFF	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1								
1	UST1115GT-MW07	10/9/06	11:00		X	UST1115GT-MW07	11	X	X	X	X	X	X								
2	USTHPFF-MW11	10/9/06	11:45		X	USTHPFF-MW11	11	X	X	X	X	X	X								
3	Trip Blank 100906	10/4/06	—		X	Trip Blank 100906	2	X													
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 3		FedEx 8574 8740 2486	10/9/06	16:00	14 Day TAT
2		FX	George Conrad	10-10-06	09:00	
3						2.6

F44334: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44334 CLIENT: SHAW PROJECT: CAMP_LEJEUNE_HPFF

DATE/TIME RECEIVED: 10-10-06 0910 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.6

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

AIRBILL NUMBERS: 8574 8740 2486

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? ϕ

NUMBER OF 5035 FIELD KITS ? ϕ

NUMBER OR LAB FILTERED METALS ? ϕ

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE SE 10-10-06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

3.1 3

F44334: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-MB	QQ019289.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ745-MB	QQ019321.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1, F44334-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ746-MB	QQ019353.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-MB	XY023658.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44334-1, F44334-2

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-BS	QQ019288.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-90-7	Chlorobenzene	20	20.6	103	76-120
95-50-1	1,2-Dichlorobenzene	20	19.8	99	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	21.4	107	68-121
100-41-4	Ethylbenzene	20	21.2	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.8	94	73-118
108-88-3	Toluene	20	20.9	105	79-122
1330-20-7	Xylenes (total)	60	63.6	106	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	71-124%

Blank Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ745-BS	QQ019320.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1, F44334-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.8	99	81-121
108-90-7	Chlorobenzene	20	19.7	99	76-120
95-50-1	1,2-Dichlorobenzene	20	19.3	97	63-127
541-73-1	1,3-Dichlorobenzene	20	20.2	101	70-124
106-46-7	1,4-Dichlorobenzene	20	20.6	103	68-121
100-41-4	Ethylbenzene	20	20.3	102	79-124
1634-04-4	Methyl Tert Butyl Ether	20	17.3	87	73-118
108-88-3	Toluene	20	20.0	100	79-122
1330-20-7	Xylenes (total)	60	60.7	101	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Blank Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ746-BS	QQ019352.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: **Method:** EPA 601/602

F44334-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.6	103	81-121
108-90-7	Chlorobenzene	20	20.5	103	76-120
95-50-1	1,2-Dichlorobenzene	20	20.3	102	63-127
541-73-1	1,3-Dichlorobenzene	20	21.1	106	70-124
106-46-7	1,4-Dichlorobenzene	20	21.6	108	68-121
100-41-4	Ethylbenzene	20	21.1	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.5	93	73-118
108-88-3	Toluene	20	20.8	104	79-122
1330-20-7	Xylenes (total)	60	63.2	105	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Blank Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-BS	XY023659.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44334-1, F44334-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	98.8	91	60-135
74-84-0	Ethane	219	203	93	64-141
74-85-1	Ethene	290	266	92	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-2MS	QQ019312.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2MSD	QQ019313.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2 [a]	QQ019307.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1

CAS No.	Compound	F44334-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-90-7	Chlorobenzene	ND		20	19.6	98	19.3	97	2	72-124/8
95-50-1	1,2-Dichlorobenzene	21.6		20	22.9	6*	22.7	5*	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	20.5	103	20.1	101	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	21.3	107	20.9	105	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.3	102	19.9	100	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	93.2		20	113	99	110	84	3	63-130/11
108-88-3	Toluene	0.87	J	20	21.6	104	21.1	101	2	69-132/7
1330-20-7	Xylenes (total)	38.9		60	97.8	98	96.0	95	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44334-2	Limits
460-00-4	4-Bromofluorobenzene	110%	114%		71-130%
98-08-8	aaa-Trifluorotoluene	92%	96%		71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44411-7MS	QQ019340.D	1	10/17/06	AF	n/a	n/a	GQQ745
F44411-7MSD	QQ019341.D	1	10/17/06	AF	n/a	n/a	GQQ745
F44411-7 [a]	QQ019334.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-1, F44334-2

CAS No.	Compound	F44411-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.5	103	20.3	102	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.4	97	19.1	96	2	72-124/8
95-50-1	1,2-Dichlorobenzene	1.3		20	19.9	93	19.4	91	3	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.9	100	19.5	98	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	20.3	102	19.8	99	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.0	100	19.7	99	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	25.4		20	42.7	87	43.5	91	2	63-130/11
108-88-3	Toluene	1.5		20	19.6	91	19.5	90	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	59.6	99	58.7	98	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44411-7	Limits
460-00-4	4-Bromofluorobenzene	109%	106%	105%	71-130%
98-08-8	aaa-Trifluorotoluene	95%	94%	95%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44460-1MS	QQ019366.D	1	10/18/06	AF	n/a	n/a	GQQ746
F44460-1MSD	QQ019367.D	1	10/18/06	AF	n/a	n/a	GQQ746
F44460-1	QQ019364.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: Method: EPA 601/602

F44334-3

CAS No.	Compound	F44460-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	19.8	99	19.7	99	1	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	19.7	99	19.6	98	1	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	19.2	96	19.2	96	0	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	20.3	102	20.3	102	0	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	20.6	103	20.8	104	1	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	20.3	102	20.1	101	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	17.7	89	17.9	90	1	63-130/11
108-88-3	Toluene	1.0	U	20	19.9	100	19.8	99	1	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	60.8	101	60.3	101	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44460-1	Limits
460-00-4	4-Bromofluorobenzene	111%	109%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	95%	92%	91%	71-124%

Matrix Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-1MS	XY023686.D	1	10/13/06	TD	n/a	n/a	GXY916
F44334-1	XY023672.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44334-1, F44334-2

CAS No.	Compound	F44334-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	3.51		108	108	97	30-162
74-84-0	Ethane	ND		219	221	101	54-160
74-85-1	Ethene	ND		290	289	100	53-159

Duplicate Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44362-1DUP	XY023682.D	5	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023674.D	1	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023681.D	5	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44334-1, F44334-2

CAS No.	Compound	F44362-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1370 [a]		1400		2	27
74-84-0	Ethane	3.08		2.1		37*	19
74-85-1	Ethene	4.02		3.82		5	18

(a) Result is from Run #2.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18175-MB	AA030940.D	1	10/17/06	MRE	10/16/06	OP18175	GAA1379

The QC reported here applies to the following samples: Method: EPA 610

F44334-1, F44334-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	36-114%
92-94-4	p-Terphenyl	91%	31-121%

Method Blank Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18175-MB	AA030978.D	1	10/18/06	MRE	10/16/06	OP18175	GAA1380

The QC reported here applies to the following samples: Method: EPA 610

F44334-1, F44334-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	36-114%
92-94-4	p-Terphenyl	92%	31-121%

Blank Spike Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18175-BS	AA030939.D	1	10/17/06	MRE	10/16/06	OP18175	GAA1379

The QC reported here applies to the following samples: Method: EPA 610

F44334-1, F44334-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	14.8	74	60-98
208-96-8	Acenaphthylene	20	15.5	78	57-97
120-12-7	Anthracene	10	8.2	82	68-103
56-55-3	Benzo(a)anthracene	10	8.3	83	68-106
50-32-8	Benzo(a)pyrene	10	9.2	92	70-108
205-99-2	Benzo(b)fluoranthene	10	8.3	83	70-108
191-24-2	Benzo(g,h,i)perylene	10	8.4	84	69-108
207-08-9	Benzo(k)fluoranthene	10	8.4	84	69-109
218-01-9	Chrysene	10	8.5	85	70-106
53-70-3	Dibenzo(a,h)anthracene	10	8.5	85	69-108
206-44-0	Fluoranthene	20	16.5	83	65-104
86-73-7	Fluorene	20	15.2	76	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.3	83	69-108
91-20-3	Naphthalene	20	13.2	66	52-91
90-12-0	1-Methylnaphthalene	20	13.6	68	54-94
91-57-6	2-Methylnaphthalene	20	13.1	66	55-94
85-01-8	Phenanthrene	20	16.6	83	62-102
129-00-0	Pyrene	20	16.4	82	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	81%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44334
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18175-MS	AA030980.D	2	10/18/06	MRE	10/16/06	OP18175	GAA1380
OP18175-MSD	AA030981.D	2	10/18/06	MRE	10/16/06	OP18175	GAA1380
F44416-1	AA030979.D	1	10/18/06	MRE	10/16/06	OP18175	GAA1380

The QC reported here applies to the following samples: Method: EPA 610

F44334-1, F44334-2

CAS No.	Compound	F44416-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	3.9	U	40	31.7	79	31.0	78	2	42-119/25
208-96-8	Acenaphthylene	3.9	U	40	33.1	83	32.5	81	2	40-121/25
120-12-7	Anthracene	2.0	U	20	17.9	90	17.9	90	0	63-108/19
56-55-3	Benzo(a)anthracene	0.20	U	20	17.5	88	16.9	85	3	66-108/15
50-32-8	Benzo(a)pyrene	0.20	U	20	19.4	97	18.7	94	4	67-111/15
205-99-2	Benzo(b)fluoranthene	0.20	U	20	17.7	89	17.1	86	3	67-110/15
191-24-2	Benzo(g,h,i)perylene	0.20	U	20	17.8	89	17.2	86	3	66-110/15
207-08-9	Benzo(k)fluoranthene	0.20	U	20	17.3	87	16.8	84	3	66-111/15
218-01-9	Chrysene	2.0	U	20	18.0	90	17.4	87	3	60-123/17
53-70-3	Dibenzo(a,h)anthracene	0.20	U	20	17.9	90	17.2	86	4	66-111/14
206-44-0	Fluoranthene	2.0	U	40	35.6	89	34.8	87	2	64-107/16
86-73-7	Fluorene	2.0	U	40	32.3	81	31.6	79	2	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	U	20	17.2	86	16.6	83	4	65-112/15
91-20-3	Naphthalene	2.0	U	40	28.7	72	27.9	70	3	41-102/24
90-12-0	1-Methylnaphthalene	2.0	U	40	29.4	74	28.6	72	3	41-109/25
91-57-6	2-Methylnaphthalene	2.0	U	40	28.4	71	27.6	69	3	43-106/25
85-01-8	Phenanthrene	2.0	U	40	35.7	89	35.1	88	2	59-105/20
129-00-0	Pyrene	2.0	U	40	35.2	88	34.4	86	2	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F44416-1	Limits
84-15-1	o-Terphenyl	85%	84%	82%	36-114%
92-94-4	p-Terphenyl	92%	90%	92%	31-121%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44334
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8474/GN22501	2.0	<2.0	mg/l	50	47.6	95.2	90-110%
Fluoride	GP8474/GN22501	0.20	<0.20	mg/l	2.5	2.31	92.4	90-110%
Nitrogen, Nitrate	GP8474/GN22501	0.10	<0.10	mg/l	2.5	2.42	96.8	90-110%
Nitrogen, Nitrite	GP8474/GN22501	0.10	<0.10	mg/l	2.5	2.67	106.8	90-110%
Sulfate	GP8474/GN22501	2.0	<2.0	mg/l	50	46.0	92.0	90-110%
Total Organic Carbon	GP8475/GN22505	1.0	<1.0	mg/l	15	13.8	92.0	90-110%

Associated Samples:
Batch GP8474: F44334-1, F44334-2
Batch GP8475: F44334-1, F44334-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44334
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8474/GN22501	F44320-6	mg/l	46.3	45.9	0.9	0-20%
Chloride	GP8474/GN22501	F44320-7	mg/l	46.8	46.8	0.0	0-20%
Fluoride	GP8474/GN22501	F44320-6	mg/l	0.19	0.28	38.3(a)	0-20%
Fluoride	GP8474/GN22501	F44320-7	mg/l	0.18	<0.20	0.0	0-20%
Nitrogen, Nitrate	GP8474/GN22501	F44320-6	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP8474/GN22501	F44320-7	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8474/GN22538	F44320-6	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8474/GN22538	F44320-7	mg/l	0.050 U	<0.10	0.0	0-20%
Sulfate	GP8474/GN22501	F44320-6	mg/l	18.2	17.2	5.6	0-20%
Sulfate	GP8474/GN22501	F44320-7	mg/l	30.3	29.8	1.7	0-20%
Total Organic Carbon	GP8475/GN22505	F44265-7	mg/l	0.50 U	<1.0	0.0	0-20%

Associated Samples:
Batch GP8474: F44334-1, F44334-2
Batch GP8475: F44334-1, F44334-2
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

6.2 G

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44334
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8474/GN22501	F44320-6	mg/l	46.3	50	89.3	86.0N(a)	90-110%
Chloride	GP8474/GN22501	F44320-7	mg/l	46.8	50	88.9	84.2N(a)	90-110%
Fluoride	GP8474/GN22501	F44320-6	mg/l	0.19	2.5	4.2	160.4N(a)	90-110%
Fluoride	GP8474/GN22501	F44320-7	mg/l	0.18	2.5	2.9	108.8	90-110%
Nitrogen, Nitrate	GP8474/GN22501	F44320-6	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP8474/GN22501	F44320-7	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrite	GP8474/GN22538	F44320-6	mg/l	0.050 U	2.5	2.5	100.0	90-110%
Nitrogen, Nitrite	GP8474/GN22538	F44320-7	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Sulfate	GP8474/GN22501	F44320-6	mg/l	18.2	50	60.7	85.0N(a)	90-110%
Sulfate	GP8474/GN22501	F44320-7	mg/l	30.3	50	70.5	80.4N(a)	90-110%
Total Organic Carbon	GP8475/GN22505	F44265-7	mg/l	0.50 U	15	14.3	95.3	75-125%

Associated Samples:
Batch GP8474: F44334-1, F44334-2
Batch GP8475: F44334-1, F44334-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

6.3

APPENDIX D

GROUNDWATER SAMPLE COLLECTION LOGS

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF NW
		WELL NO. UST1115 MW18
		SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-25-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1330
PHONE: 910-451-2390	WEATHER: Sunny / Windy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=	HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Well Bubbling & Surging NO Field Readings Taken Including Water Level

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF SE
WELL NO. USTHPFF-MW11
SAMPLE NO.USTHPFF

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-25-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1250
PHONE: 910-451-2390	WEATHER: Sunny / Windy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	63.60	(In)	=	224.40	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	5.30	(Ft)	=	18.7	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			224.40	1	3.14	705	.0043	3.0	9.1	10
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: No Field Readings Taken Due to having to Hand Bail Because of Amount of Silt in Well

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115GtMW07	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Sunny / Windy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-25-06
TIME 1420
No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom	228.24	(In) (Minus)	Depth to Water	107.52	(In)	=	120.72	HT (in)
Depth to Bottom	19.02	(Ft) (Minus)	Depth to Water	8.96	(Ft)	=	10.06	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			120.72	1	3.14	379	.0043	1.6		4.9	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: NO Field Readings taken Had to HAND BAIL Due to well Bubbling

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

9.6

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF NW
WELL NO. UST1115MW24
SAMPLE NO.UST1115 MW24

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-20-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 0945
PHONE: 910-451-2390	WEATHER: Sunny	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.92	7.01	6.83	6.85			(STD)
Specific Conductivity	.719	1.457	1.363	1.342			(m S/cm)
Turbidity (Turb)	2.1	14.3	19.5	12.7			(NTU)
Dissolved Oxygen (DO)	39.0	2.8	.9	1.1			(mg/l)
Temperature (Temp)	19.56	22.03	22.31	22.45			(°C)
ORP	263.9	112.3	6.7	19.2			

Depth to Bottom	954.24	(In) (Minus)	Depth to Water	115.20	(In)	=	839.04 ~~70.00~~	HT (in)
Depth to Bottom	79.52	(Ft) (Minus)	Depth to Water	9.60	(Ft)	=	69.92	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			839.04	1	3.14	2635	.0043	11.3	34	40
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
Water Clear

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

34.92

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER:	117407
PROJECT NAME:	HPFF NW
WELL NO.	UST1115MW21
SAMPLE NO.	UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-20-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1042
PHONE: 910-451-2390	WEATHER: Sunny	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.52	6.33	5.39	5.13			(STD)
Specific Conductivity	.287	.130	.147	.138			(m S/cm)
Turbidity (Turb)	1.9	5.3	6.1	3.0			(NTU)
Dissolved Oxygen (DO)	115.8	10.7	6.2	3.6			(mg/l)
Temperature (Temp)	23.48	2301	2301	2300			(°C)
ORP	299.4	348.0	322.1	280.6			

Depth to Bottom	602.40	(In) (Minus)	Depth to Water	99.00	(In)	=	503.40	HT (in)
Depth to Bottom	50.20	(Ft) (Minus)	Depth to Water	8.25	(Ft)	=	41.95	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			503.4	1	3.14	1581	.0043	6.8		20.4	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115MW02	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Sunny
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-20-06
TIME 1140
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.54	5.11	5.01	4.94			(STD)
Specific Conductivity	.140	.133	.131	.130			(m S/cm)
Turbidity (Turb)	58.8	56.1	29.1	15.2			(NTU)
Dissolved Oxygen (DO)	51.9	26.5	20.3	15.6			(mg/l)
Temperature (Temp)	20.80	20.76	21.11	21.22			(°C)
ORP	431.9	464.5	470.9	465.5			

Depth to Bottom	166.80	(In) (Minus)	Depth to Water	89.04	(In)	=	77.76	HT (in)
Depth to Bottom	13.90	(Ft) (Minus)	Depth to Water	7.42	(Ft)	=	6.48	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			77.76	1	3.14	244	.0043	1.0		3.1	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Water Cloudy

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115 MW22	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Sunny / Windy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-20-06 | TIME 1225 | No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.56	6.72	6.84	6.92			(STD)
Specific Conductivity	.508	.517	.519	.524			(m S/cm)
Turbidity (Turb)	2.7	3.7	3.8	3.8			(NTU)
Dissolved Oxygen (DO)	31.5	6.8	6.7	6.0			(mg/l)
Temperature (Temp)	19.72	20.37	20.51	20.57			(°C)
ORP	303.9	236.4	165.6	143.5			

Depth to Bottom	558.44	(In) (Minus)	Depth to Water	130.08	(In)	=	828.36	HT (in)
Depth to Bottom	79.87	(Ft) (Minus)	Depth to Water	10.84	(Ft)	=	69.03	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			828.36	1	3.14	2601	.0043	11.2		33.4	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

Water is Clear

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115 MW17	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
DATE 1-20-06	
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
TIME 1315	
PHONE: 910-451-2390	WEATHER: partly cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer
No	

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.98	6.74	5.74	5.68			(STD)
Specific Conductivity	3.469	3.956	4.297	4.323			(m S/cm)
Turbidity (Turb)	1.4	5.5	59.2	77.4			(NTU)
Dissolved Oxygen (DO)	8.2	6.8	7.8	8.3			(mg/l)
Temperature (Temp)	19.84	19.92	20.09	20.18			(°C)
ORP	77.1	42.5	59.5	53.5			

Depth to Bottom	605.40	(In) (Minus)	Depth to Water	109.20	(In)	=	496.20	HT (in)
Depth to Bottom	50.45	(Ft) (Minus)	Depth to Water	9.10	(Ft)	=	41.35	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			496.20	1	3.14	1558	.0043	6.7		20.1	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

Water Little Cloudy

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115 MW04	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-20-06
TIME 1427
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.55	5.30	5.30				(STD)
Specific Conductivity	216	.167	.165				(m S/cm)
Turbidity (Turb)	14.2	21.6	54.0				(NTU)
Dissolved Oxygen (DO)	63.3	8.7	11.4				(mg/l)
Temperature (Temp)	16.48	18.65	20.22				(°C)
ORP	318.9	335.1	357.1				

Depth to Bottom	210.36	(In) (Minus)	Depth to Water	57.60	(In)	=	152.76	HT (in)
Depth to Bottom	17.53	(Ft) (Minus)	Depth to Water	4.80	(Ft)	=	12.73	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			152.76	1	3.14	480	.0043	2:1		6.2	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purged 3x Vol well went Dry allowed To Recover then Sampled

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF NW
WELL NO. UST1115MW09
SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-23-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1120
PHONE: 910-451-2390	WEATHER: Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.56	5.97	5.66	5.62			(STD)
Specific Conductivity	.444	.392	.383	.387			(m S/cm)
Turbidity (Turb)	337.9	73.5	12.6	7.2			(NTU)
Dissolved Oxygen (DO)	26.69	23.70	14.22	13.00			(mg/l)
Temperature (Temp)	18.46	18.28	19.24	19.37			(°C)
ORP	123.8	118.4	120.0	110.7			

Depth to Bottom	156.72	(In) (Minus)	Depth to Water	64.56	(In)	=	92.16	HT (in)
Depth to Bottom	13.06	(Ft) (Minus)	Depth to Water	5.38	(Ft)	=	7.68	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			92.14	1	3.14	289	.0043	1.2		3.7	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
Water started muddy & now pretty clear.

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF SE
WELL NO. UST HPFF-MW01
SAMPLE NO. UST ~~1115~~ HPFF-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1/23/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1130
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.67	5.69	5.66	5.66			(STD)
Specific Conductivity	0.131	0.131	0.136	0.140			(m S/cm)
Turbidity (Turb)	0.0	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	7.30	7.92	2.88	1.64			(mg/l)
Temperature (Temp)	19.62	18.04	17.67	17.95			(°C)
ORP	-79.0	-65.0	-70.2	-85.2			

Depth to Bottom	227.64	(In) (Minus)	Depth to Water	101.16	(In)	=	126.48	HT (in)
Depth to Bottom	18.97	(Ft) (Minus)	Depth to Water	8.43	(Ft)	=	10.54	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			126.48	1	3.14	397	.0043	1.7		5.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF SE
		WELL NO. UST HPFF- MW18
		SAMPLE NO. UST ~~115~~ HPFF-MW18

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1/23/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1045
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.35	6.21 ~~20.35~~	5.77	5.62			(STD)
Specific Conductivity	0.235	0.235	0.203	0.206			(m S/cm)
Turbidity (Turb)	15.9	6.0	1.0	0.0			(NTU)
Dissolved Oxygen (DO)	11.04	8.39	6.37	5.29			(mg/l)
Temperature (Temp)	20.86	20.39	21.19	20.78			(°C)
ORP	-173.8	-157.7	-101.5	-90.0			

Depth to Bottom	274.80	(In) (Minus)	Depth to Water	128.16	(In)	=	146.64	HT (in)
Depth to Bottom	22.90	(Ft) (Minus)	Depth to Water	10.68	(Ft)	=	12.22	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			146.64	1	3.14	1842	.0043	7.5		23.8	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF SE	
WELL NO. 786W32-02	
SAMPLE NO. ~~UST1115~~ 786W32-02	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer / No

DATE 1/23/06

TIME —

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=	HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

d/2 = 1

Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Well Missing Covered By Stone could not Locate

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF SE
		WELL NO. 78 GW32-03
		SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 11/23/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Well Missing Covered By Stone Could not Locate

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF NW
WELL NO. UST1115MW01
SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC | LOGGER: Mark Martin/Lloyd Evans | DATE 1-23-06
PROJECT CONTACT: Mark Martin | SAMPLER: Mark Martin/Lloyd Evans | TIME 1300
PHONE: 910-451-2390 | WEATHER: Cloudy
LEL: | Well Locked: [X] Yes
PID: | Sampling Device: Bailer | No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.08	4.88	4.81	4.77			(STD)
Specific Conductivity	.128	.149	.155	.155			(m S/cm)
Turbidity (Turb)	171.1	92.3	58.6	46.6			(NTU)
Dissolved Oxygen (DO)	8.31	5.82	4.29	3.54			(mg/l)
Temperature (Temp)	20.66	21.25	21.68	22.03			(°C)
ORP	460.6	471.2	470.0	470.6			

Depth to Bottom	174.36	(In) (Minus)	Depth to Water	86.16	(In)	=	88.20	HT (in)
Depth to Bottom	14.53	(Ft) (Minus)	Depth to Water	7.18	(Ft)	=	7.35	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	f^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			88.20	1	3.14	277	.0043	1.2		3.6	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]
OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO.	
SAMPLE NO.UST1115 - MW25	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1/23/06
TIME 1430
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	8.12	7.76	7.47	7.12			(STD)
Specific Conductivity	0.502	0.522	0.560	0.577			(m S/cm)
Turbidity (Turb)	30.9	17.9	3.5	4.5			(NTU)
Dissolved Oxygen (DO)	18.19	6.46	5.33	3.68			(mg/l)
Temperature (Temp)	24.07	23.80	23.88	23.87			(°C)
ORP	193.5	228.7	225.4	29.5			

Depth to Bottom	961.20	(In) (Minus)	Depth to Water	108.60	(In)	=	852.60	HT (in)
Depth to Bottom	80.10	(Ft) (Minus)	Depth to Water	9.05	(Ft)	=	71.05	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			852.6	1	3.14	2677	.0043	11.5		345	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115GT-MW01	
SAMPLE NO. UST1115GT-MW01	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1/27/05
TIME 1500
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.18	5.63	5.70	5.70			(STD)
Specific Conductivity	0.838	0.501	0.436	0.378			(m S/cm)
Turbidity (Turb)	1368.4	375.1	243.6	390.4			(NTU)
Dissolved Oxygen (DO)	20.92	8.08	5.77	4.22			(mg/l)
Temperature (Temp)	22.36	22.49	23.38	21.39			(°C)
ORP	341.6	346.1	353.0	306.9			

Depth to Bottom	211.20	(In) (Minus)	Depth to Water	47.04	(In)	=	164.16	HT (in)
Depth to Bottom	17.60	(Ft) (Minus)	Depth to Water	~~17.60~~ 3.92	(Ft)	=	13.68	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
d/2 = 1
Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			164.16	1	3.14	515	.0043	2.2		6.6	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Duplicate Sample Taken

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115-MW13	
SAMPLE NO.UST1115-MW13	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1/23/06
TIME 1515
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.24	4.58	4.50	4.47			(STD)
Specific Conductivity	3.167	3.309	3.422	3.435			(m S/cm)
Turbidity (Turb)	828.1	115.4	60.7	205.7			(NTU)
Dissolved Oxygen (DO)	25.14	4.17	4.27	3.87			(mg/l)
Temperature (Temp)	24.82	24.86	24.89	24.92			(°C)
ORP	87.7	182.9	192.6	198.6			

Depth to Bottom	615.60	(In) (Minus)	Depth to Water	102.36	(In)	=	513.24	HT (in)
Depth to Bottom	51.30	(Ft) (Minus)	Depth to Water	8.53	(Ft)	=	42.77	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			513.24	1	3.14	1612	.0043	6.9	20.8	25
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST1115 MW23	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-23-06
TIME 1030
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.76	6.75	6.69	6.69			(STD)
Specific Conductivity	2.092	2.131	2.283	2281			(m S/cm)
Turbidity (Turb)	67.9	119.1	62.0	~~159~~	64.8		(NTU)
Dissolved Oxygen (DO)	7.49	3.68	1.93	1.61			(mg/l)
Temperature (Temp)	19.81	20.78	2059	20.64			(°C)
ORP	127.1	54.3	78.8	85.1			

Depth to Bottom	981.00	(In) (Minus)	Depth to Water	122.88	(In)	=	858.12	HT (in)
Depth to Bottom	81.75	(Ft) (Minus)	Depth to Water	10.24	(Ft)	=	71.51	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			858.12	1	3.14	2694	.0043	11.6		34.8	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
Water clear,

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. IR78-6622-02	
SAMPLE NO. ~~UST1115~~ IR78 G622-02	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1/23/06
TIME 1215
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.57	5.36	5.34	5.21			(STD)
Specific Conductivity	0.373	0.374	6.374	0.365			(m S/cm)
Turbidity (Turb)	881.9	475.3	315.4	120.4			(NTU)
Dissolved Oxygen (DO)	13.02	5.56	5.27	5.21			(mg/l)
Temperature (Temp)	19.02	18.74	18.32	18.24			(°C)
ORP	365.7	308.7	346.4	237.6			

Depth to Bottom	276.00	(In) (Minus)	Depth to Water	96.00	(In)	=	180.00	HT (in)
Depth to Bottom	23.00	(Ft) (Minus)	Depth to Water	8.00	(Ft)	=	15.00	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			180	1	3.14	565	.0043	2.4	7.3	10
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF SE
WELL NO. US/HPFFC-MW01
SAMPLE NO.UST

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1530
PHONE: 910-451-2390	WEATHER: Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.67	5.04	5.11	~~5.11~~	4.90		(STD)
Specific Conductivity	.215	.180	.180	.181			(m S/cm)
Turbidity (Turb)	307.4	.6	9.8	~~9.8~~	.9		(NTU)
Dissolved Oxygen (DO)	39.56	31.53	27.00	~~27.00~~	34.33		(mg/l)
Temperature (Temp)	16.98	16.91	17.11	17.23			(°C)
ORP		396.3	394.6	~~394.6~~ 413.0			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	57.60	(In)	=	230.40	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	4.80	(Ft)	=	19.20	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			230.4	1	3.14	723	.0043	3.1		9.6	12
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF SE	
WELL NO. UST HPFF_MW10R	
SAMPLE NO.UST	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-24-06
TIME 1415
No

FIELD MEASUREMENTS

	1	2	3	4		
PH	6.38	6.54	6.62	6.66		(STD)
Specific Conductivity	1058	1.113	1.106	1.110		(m S/cm)
Turbidity (Turb)	21.0	14.0	17.9	7.0		(NTU)
Dissolved Oxygen (DO)	13.30	6.88	15.76	19.01		(mg/l)
Temperature (Temp)	1752	1805	18.93	19.17		(°C)
ORP	323.8	184.4	41.8	5.3		

Depth to Bottom	206.40	(In) (Minus)	Depth to Water	142.44	(In)	=	63.56	HT (in)
Depth to Bottom	17.20	(Ft) (Minus)	Depth to Water	11.87	(Ft)	=	5.33	HT (ft)

d = 2
r = 1
d/2 = 1

MEASUREMENTS (IN INCHES)
Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			63.56	1	3.14	201	.0043	0.9		2.6	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF SE
WELL NO. UST HPFF-MW07
SAMPLE NO.UST

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME ~~1245~~ 1445
PHONE: 910-451-2390	WEATHER: Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.71	6.69	6.69				(STD)
Specific Conductivity	942	965	962				(m S/cm)
Turbidity (Turb)	27.2	7.9	5.8				(NTU)
Dissolved Oxygen (DO)	9.47	3.05	2.64				(mg/l)
Temperature (Temp)	19.10	19.44	19.50				(°C)
ORP	92.8	60.2	48.4				

Depth to Bottom	547.32	(In) (Minus)	Depth to Water	105.60	(In)	=	441.72	HT (in)
Depth to Bottom	45.61	(Ft) (Minus)	Depth to Water	8.80	(Ft)	=	36.81	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			441.72	1	3.14	1387	.0043	6.0		17.9	~~20~~ 18
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purge - Dry 3# Vol

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF NW
		WELL NO. USTHPFFC-MW09
		SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 0750
PHONE: 910-451-2390	WEATHER: Light Rain.	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.18	6.49	6.46	6.47			(STD)
Specific Conductivity	.956	2.569	2.572	2.568			(m S/cm)
Turbidity (Turb)	98.4	106.6	233.0	182.7			(NTU)
Dissolved Oxygen (DO)	1.784	4.06	3.86	3.36			(mg/l)
Temperature (Temp)	21.40	22.30	22.34	22.38			(°C)
ORP	452.7	154.7	104.0	41.7			

Depth to Bottom	580.80	(In) (Minus)	Depth to Water	96.00	(In)	=	484.80	HT (in)
Depth to Bottom	48.40	(Ft) (Minus)	Depth to Water	8.0	(Ft)	=	40.40	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			484.8	1	3.14	1522	.0043	6.5		19.6	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

Water Very Clear

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF NW	
WELL NO. UST HPFFC-MW05	
SAMPLE NO.UST1115	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-24-06
TIME 0840
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.55	6.10	6.00	5.86			(STD)
Specific Conductivity	.437	.345	.314	.283			(m S/cm)
Turbidity (Turb)	127.	16.7	33.3	24.5			(NTU)
Dissolved Oxygen (DO)	5.80	2.74	2.44	3.57			(mg/l)
Temperature (Temp)	20.00	20.19	20.47	20.71			(°C)
ORP	124.9	126.8	150.4	170.6			

Depth to Bottom	180.00	(In) (Minus)	Depth to Water	76.80	(In)	=	103.20	HT (in)
Depth to Bottom	15.0	(Ft) (Minus)	Depth to Water	6.40	(Ft)	=	8.6	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			103.2	1	3.14	324	.0043	1.4		4.2	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF NW
		WELL NO. UST HPFFC-MW20
		SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 09:30
PHONE: 910-451-2390	WEATHER: Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.20	6.08	6.16	6.22			(STD)
Specific Conductivity	.218	.272	.311	.312			(m S/cm)
Turbidity (Turb)	405.8	220.0	56.6	16.2			(NTU)
Dissolved Oxygen (DO)	11.20	8.36	6.26	5.43			(mg/l)
Temperature (Temp)	16.35	16.96	17.24	17.32			(°C)
ORP	406.5	395.1	349.1	302.9			

Depth to Bottom	171.36	(In) (Minus)	Depth to Water	78.00	(In)	=	93.36	HT (in)
Depth to Bottom	14.28	(Ft) (Minus)	Depth to Water	6.50	(Ft)	=	7.78	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			93.36	1	3.14	293	.0043	1.3		3.8	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF NW
WELL NO. UST-HPFFC-MW19
SAMPLE NO.UST1115

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1025
PHONE: 910-451-2390	WEATHER: cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.09	6.27	6.37	6.36			(STD)
Specific Conductivity	.832	.650	.615	621			(m S/cm)
Turbidity (Turb)	289.5	65.2	12.3	4.4			(NTU)
Dissolved Oxygen (DO)	1692	3.35	1.02	.47			(mg/l)
Temperature (Temp)	16.92	17.47	18.45	18.71			(°C)
ORP	365.1	66.7	112.5	166.3			

Depth to Bottom	175.20	(In) (Minus)	Depth to Water	57.00	(In)	=	118.20	HT (in)
Depth to Bottom	14.60	(Ft) (Minus)	Depth to Water	4.75	(Ft)	=	9.85	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			118.20	1	3.14	371	.0043	1.6		4.8	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407
PROJECT NAME: HPFF SE
WELL NO. UST HPFF-MW17A
SAMPLE NO.UST

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1200
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.21	6.26	6.23	6.21			(STD)
Specific Conductivity	.337	.340	.338	.339			(m S/cm)
Turbidity (Turb)	50.9	20.7	6.9	6.3			(NTU)
Dissolved Oxygen (DO)	6.92	3.33	2.14	1.96			(mg/l)
Temperature (Temp)	18.82	19.39	19.38	19.32			(°C)
ORP	145.6	75.8	34.2	26.8			

Depth to Bottom	419.52	(In) (Minus)	Depth to Water	123.72	(In)	=	295.80	HT (in)
Depth to Bottom	34.96	(Ft) (Minus)	Depth to Water	10.31	(Ft)	=	24.65	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			295.8	1	3.14	929	.0043	4.0		12	15
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 117407	
PROJECT NAME: HPFF SE	
WELL NO. USTHPFFC-MW11	
SAMPLE NO.UST	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans
PHONE: 910-451-2390	WEATHER: Cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 1-24-06
TIME 1240
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.35	6.59	6.62	6.60			(STD)
Specific Conductivity	.176	.137	.136	.136			(m S/cm)
Turbidity (Turb)	23.3	7.3	4.4	3.12			(NTU)
Dissolved Oxygen (DO)	10.10	2.61	2.27	2.12			(mg/l)
Temperature (Temp)	19.51	21.29	21.15	21.05			(°C)
ORP	194.3	~~218.8~~ 59.7	26.1	13.0			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	162.00	(In)	=	126.00	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	13.50	(Ft)	=	10.50	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			126.00	1	3.14	396	.0043	1.7		5.1	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 117407
		PROJECT NAME: HPFF SE
		WELL NO. UstHPFFc-MW08
		SAMPLE NO.UST

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin/Lloyd Evans	DATE 1-24-06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Lloyd Evans	TIME 1315
PHONE: 910-451-2390	WEATHER: Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.22	6.40	6.45	6.51			(STD)
Specific Conductivity	356	358	.464	.543			(m S/cm)
Turbidity (Turb)	0.2	0.9	6.6	1.7			(NTU)
Dissolved Oxygen (DO)	4.77	2.31	1.54	1.15			(mg/l)
Temperature (Temp)	20.90	20.92	20.58	20.48			(°C)
ORP	221.9	53.6	22.4	55.6			

Depth to Bottom	613.32	(In) (Minus)	Depth to Water	180.00	(In)	=	433.32	HT (in)
Depth to Bottom	51.11	(Ft) (Minus)	Depth to Water	15.00	(Ft)	=	36.11	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge-Vol.	Vol. Purged
TOP			433.32	1	3.14	1361	.0043	5.9		17.6	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW07
		SAMPLE NO. USTHPFFC-MW07

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/4/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1030
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.13	6.78	6.34	6.29			(STD)
Specific Conductivity	1.176	0.939	0.831	0.822			(m S/cm)
Turbidity (Turb)	6.7	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	6.27	1.76	0.23	0.16			(mg/l)
Temperature (Temp)	26.76	26.57	20.47	20.47			(°C)
ORP	435.6	333.5	327.1	326.0			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	547.32	(In) (Minus)	Depth to Water	117.36	(In)	=	429.96	HT (in)
Depth to Bottom	45.61	(Ft) (Minus)	Depth to Water	9.78	(Ft)	=	35.83	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			429.96	1	3.14	1350	.0043	5.8		17.4	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW20
		SAMPLE NO. USTHPFFC-MW20

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/4/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1100
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.12	6.84	6.75	6.75			(STD)
Specific Conductivity	0.829	0.829	0.825	0.829			(m S/cm)
Turbidity (Turb)	0.0	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	7.12	3.91	0.29	0.29			(mg/l)
Temperature (Temp)							(°C)
ORP	-137.8	-121.4	-115.1	-110.3			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	171.36	(In) (Minus)	Depth to Water	80.28	(In)	=	91.08	HT (in)
Depth to Bottom	14.28	(Ft) (Minus)	Depth to Water	6.69	(Ft)	=	7.59	HT (ft)

d = 4 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			91.08	1	3.14	1144	.0043	4.9		14.8	15
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: HPFF
WELL NO. USTHPFF-MW10R
SAMPLE NO. USTHPFF-MW10R

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/4/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1200
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.78						(STD)
Specific Conductivity	1.138						(m S/cm)
Turbidity (Turb)	39.4						(NTU)
Dissolved Oxygen (DO)	7.49						(mg/l)
Temperature (Temp)	23.08						(°C)
ORP	239.8						
Chloride	~~4~~						
Ferrous Iron	~~0~~						

Depth to Bottom	206.40	(In) (Minus)	Depth to Water	147.12	(In)	=	59.28	HT (in)
Depth to Bottom	17.20	(Ft) (Minus)	Depth to Water	12.26	(Ft)	=	4.94	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			59.28	1	3.14	186	.0043	0.8		2.4	3.3
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purged Dry 1.5 x Vol

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST HPFFC-MW08
		SAMPLE NO. USTHPFFC-MW08

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1045
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.12	6.57	6.57	6.57			(STD)
Specific Conductivity	1.127	0.857	0.621	0.608			(m S/cm)
Turbidity (Turb)	297.4	113.4	67.5	27.1			(NTU)
Dissolved Oxygen (DO)	7.62	1.10	0.47	0.41			(mg/l)
Temperature (Temp)	19.06	18.87	18.82	18.79			(°C)
ORP	-77.4	-103.7	-127.4	-147.6			
Chloride							
Ferrous Iron							

Depth to Bottom	613.32	(In) (Minus)	Depth to Water	189.36	(In)	=	423.96	HT (in)
Depth to Bottom	51.11	(Ft) (Minus)	Depth to Water	15.78	(Ft)	=	35.33	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			423.96	1	3.14	1331	.0043	5.7		17.2	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFF-MW01
		SAMPLE NO.USTHPFF-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0915
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.39	5.77	5.28	4.78			(STD)
Specific Conductivity	0.229	0.221	0.221	0.221			(m S/cm)
Turbidity (Turb)	14.9	6.8	6.0	3.9			(NTU)
Dissolved Oxygen (DO)	7.65	1.28	1.28	1.28			(mg/l)
Temperature (Temp)	17.25	17.20	17.18	17.18			(°C)
ORP	37.4	136.5	157.8	190.4			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	227.64	(In) (Minus)	Depth to Water	54.36	(In)	=	173.28	HT (in)
Depth to Bottom	18.97	(Ft) (Minus)	Depth to Water	4.53	(Ft)	=	14.44	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			173.28	1	3.14	544	.0043	2.3		7	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: HPFF
WELL NO. USTHPFF-MW17A
SAMPLE NO. USTHPFF-MW17A

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0830
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.14	6.23	6.19	6.17			(STD)
Specific Conductivity	0.327	0.327	0.327	0.327			(m S/cm)
Turbidity (Turb)	111.4	76.7	76.2	76.3			(NTU)
Dissolved Oxygen (DO)	7.29	1.38	0.51	6.50			(mg/l)
Temperature (Temp)	18.97	18.27	17.96	17.90			(°C)
ORP	-139.9	-67.4	-33.1	-30.1			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	419.32	(In) (Minus)	Depth to Water	127.68	(In)	=	291.84	HT (in)
Depth to Bottom	34.96	(Ft) (Minus)	Depth to Water	10.64	(Ft)	=	24.32	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			291.84	1	3.14	916	.0043	3.9		11.8	12
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFF-MW18
		SAMPLE NO. USTHPFF-MW18

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1000
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom	274.80	(In) (Minus)	Depth to Water	131.04	(In)	=	143.76	HT (in)
Depth to Bottom	22.90	(Ft) (Minus)	Depth to Water	10.92	(Ft)	=	11.98	HT (ft)

d = 4 MEASUREMENTS (IN INCHES)
r = 2 Multiply Together

d/2 = 2	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			143.76	1	3.14	1806	.0043	7.8		23.3	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: No Readings Taken.

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW19
		SAMPLE NO. USTHPFFC-MW19

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1300
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.29	5.38					(STD)
Specific Conductivity	0.729	0.629					(m S/cm)
Turbidity (Turb)	239.8	179.0					(NTU)
Dissolved Oxygen (DO)	7.29	1.22					(mg/l)
Temperature (Temp)	17.90	17.68					(°C)
ORP	-137.4	-101.4					
Chloride							
Ferrous Iron							

Depth to Bottom	175.20	(In) (Minus)	Depth to Water	63.72	(In)	=	111.48	HT (in)
Depth to Bottom	14.60	(Ft) (Minus)	Depth to Water	5.31	(Ft)	=	9.29	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			111.48	1	3.14	350	.0043	1.5		4.5	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purged Dry 2x Vol.

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFF-MW11
		SAMPLE NO.USTHPFF-MW11

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/9/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1145
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	85.92	(In)	=	202.08	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	7.16	(Ft)	=	16.84	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			202.08	1	3.14	635	.0043	2.7		8.2	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Could not Purge HAND BAILED NO READINGS TAKEN

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909	
PROJECT NAME: HPFF	
WELL NO. USTHPFFC-MW05	
SAMPLE NO.USTHPFFC-MW05	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 10/6/06

TIME 1200

☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.29	5.79	5.56	5.39			(STD)
Specific Conductivity	0.260	0.260	0.260	0.260			(m S/cm)
Turbidity (Turb)	793.8	529.4	127.6	120.8			(NTU)
Dissolved Oxygen (DO)	3.39	2.26	1.57	0.71			(mg/l)
Temperature (Temp)	20.41	20.37	20.36	20.37			(°C)
ORP	439.8	339.4	281.7	202.4			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	180.00	(In) (Minus)	Depth to Water	85.56	(In)	=	94.44	HT (in)
Depth to Bottom	15.00	(Ft) (Minus)	Depth to Water	7.13	(Ft)	=	7.87	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			94.44	1	3.14	297	.0043	1.3		3.8	4
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW01
		SAMPLE NO. USTHPFFC-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/4/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1000
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.31	4.35	4.38	4.37			(STD)
Specific Conductivity	0.190	0.193	0.194	0.194			(m S/cm)
Turbidity (Turb)	137.4	86.5	54.1	37.6			(NTU)
Dissolved Oxygen (DO)	7.39	1.57	1.47	1.40			(mg/l)
Temperature (Temp)	17.82	17.54	17.36	17.36			(°C)
ORP	-86.1	156.7	167.4	166.4			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	107.16	(In)	=	180.84	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	8.93	(Ft)	=	15.07	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			180.84	1	3.14	568	.0043	2.4		7.3	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW09
		SAMPLE NO. USTHPFFC-MW09

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1130
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.12	6.98	6.21	6.21			(STD)
Specific Conductivity	0.786	1.171	1.171	1.171			(m S/cm)
Turbidity (Turb)	121.4	119.7	108.7	108.3			(NTU)
Dissolved Oxygen (DO)	7.29	1.38	1.29	1.27			(mg/l)
Temperature (Temp)	—	—	—	—			(°C)
ORP	-16.8	-33.9	-73.5	-81.4			
Chloride				4			
Ferrous Iron				26			

Depth to Bottom	580.80	(In) (Minus)	Depth to Water	101.76	(In)	=	478.04	HT (in)
Depth to Bottom	48.40	(Ft) (Minus)	Depth to Water	8.48	(Ft)	=	39.92	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			~~1504~~ 478.04	1	3.14	1504	.0043	6.5		18.4	21
Middle			478.04		3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in Purge water

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. USTHPFFC-MW11
		SAMPLE NO.USTHPFFC-MW11

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 12/1/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 17:00
PHONE: 910-451-2390	WEATHER: Cloudy Cool	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.39	6.77	6.98	6.98			(STD)
Specific Conductivity	0.389	0.546	0.546	0.546			(m S/cm)
Turbidity (Turb)	73.4	14.5	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	8.10	7.36	6.21	4.38			(mg/l)
Temperature (Temp)	20.35	20.45	20.48	20.45			(°C)
ORP	374.5	373.6	369.9	363.4			
Chloride	—			—			
Ferrous Iron	—			—			

Depth to Bottom	960.00	(In) (Minus)	Depth to Water	159.48	(In)	=	800.52	HT (in)
Depth to Bottom	80.00	(Ft) (Minus)	Depth to Water	~~80.00~~ 13.25	(Ft)	=	66.71	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			800.52	1	3.14	25.14	.0043	10.80		32.4	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: HPFF
WELL NO. USTHPFFC-MW12
SAMPLE NO.USTHPFFC. MW12

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom	14.92	(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: No Sample Taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. IR78-GW 32-2
		SAMPLE NO.USTHPFF

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: MIA Not able to locate

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. IR78-GW32-3
		SAMPLE NO.USTHPFF

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=	HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: MIA-

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115GT-MW09
		SAMPLE NO.UST1115GT-MW09

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1500
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.61	5.50	5.45	5.45			(STD)
Specific Conductivity	0.311	0.299	0.300	0.300			(m S/cm)
Turbidity (Turb)	851.7	517.9	26.2	26.0			(NTU)
Dissolved Oxygen (DO)	4.35	1.06	0.66	0.60			(mg/l)
Temperature (Temp)	21.79	21.79	22.11	21.81			(°C)
ORP	57.6	98.7	-8.9	-9.0			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	156.96	(In) (Minus)	Depth to Water	119.76	(In)	=	37.20	HT (in)
Depth to Bottom	13.08	(Ft) (Minus)	Depth to Water	9.98	(Ft)	=	3.10	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			37.20	1	3.14	117	.0043	0.5		1.5	2
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Water high Rusty color

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909	
PROJECT NAME: HPFF	
WELL NO: ~~1078~~ GW22-2	
SAMPLE NO. ~~UST1115~~ C278GW22-2	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 10/2/06

TIME 1415

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.41	5.33	5.17	5.17			(STD)
Specific Conductivity	0.339	0.331	0.308	0.308			(m S/cm)
Turbidity (Turb)	77.6	142.9	26.0	25.4			(NTU)
Dissolved Oxygen (DO)	3.93	1.54	2.65	2.65			(mg/l)
Temperature (Temp)	21.20	22.45	21.41	21.41			(°C)
ORP	-33.4	-10.1	-15.8	-15.9			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	276.00	(In) (Minus)	Depth to Water	95.16	(In)	=	180.84	HT (in)
Depth to Bottom	23.00	(Ft) (Minus)	Depth to Water	7.93	(Ft)	=	15.07	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			180.84	1	3.14	568	.0043	2.4		7.3	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in well

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW23
		SAMPLE NO.UST1115-MW23

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1330
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.48	6.60	6.66	6.66			(STD)
Specific Conductivity	1.861	1.986	2.110	2.093			(m S/cm)
Turbidity (Turb)	75.2	978.3	103.5	59.3			(NTU)
Dissolved Oxygen (DO)	1.78	0.45	0.15	0.15			(mg/l)
Temperature (Temp)	21.39	20.97	21.12	21.12			(°C)
ORP	-104.3	138.2	135.6	135.6			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	981.00	(In) (Minus)	Depth to Water	141.96	(In)	=	839.04	HT (in)
Depth to Bottom	81.75	(Ft) (Minus)	Depth to Water	11.83	(Ft)	=	69.92	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			839.04	1	3.14	2635	.0043	11.3		34	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in Purge water

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW78
		SAMPLE NO. UST1115-MW78

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/6/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1000
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: 25 psi on well did not open. Has gauge on cap. Well is opened water gushes out of well. Did not sample.

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW04
		SAMPLE NO.UST1115-MW04

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1030
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.63	4.91	4.53	4.55			(STD)
Specific Conductivity	1.849	0.176	0.134	0.134			(m S/cm)
Turbidity (Turb)	68.6	9.8	1.9	1.6			(NTU)
Dissolved Oxygen (DO)	5.79	1.30	0.55	0.43			(mg/l)
Temperature (Temp)	21.19	23.60	24.15	24.16			(°C)
ORP	17.6	161.3	247.6	247.3			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	210.36	(In) (Minus)	Depth to Water	64.44	(In)	=	145.92	HT (in)
Depth to Bottom	17.53	(Ft) (Minus)	Depth to Water	5.37	(Ft)	=	12.16	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			145.92	1	3.14	458	.0043	2.0		5.9	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909	
PROJECT NAME: HPFF	
WELL NO. UST1115 - MW17	
SAMPLE NO.UST1115 - MW17	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 10/2/06
TIME 1130
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.57	5.41	5.41	5.41			(STD)
Specific Conductivity	3.768	3.848	3.833	3.833			(m S/cm)
Turbidity (Turb)	67.3	100.4	59.3	54.3			(NTU)
Dissolved Oxygen (DO)	1.83	0.22	0.13	0.13			(mg/l)
Temperature (Temp)	19.97	19.98	19.91	19.91			(°C)
ORP	-47.1	-13.7	-11.9	-11.8			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	605.40	(In) (Minus)	Depth to Water	119.04	(In)	=	486.36	HT (in)
Depth to Bottom	50.45	(Ft) (Minus)	Depth to Water	9.92	(Ft)	=	40.53	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			486.36	1	3.14	1527	.0043	6.6		19.7	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in Purge water

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST 1115 - MW22
		SAMPLE NO. UST1115-MW22

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1230
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.88	7.05	7.16	7.16			(STD)
Specific Conductivity	0.483	0.493	0.491	0.491			(m S/cm)
Turbidity (Turb)	5.9	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	1.23	0.34	0.22	0.21			(mg/l)
Temperature (Temp)	20.49	21.26	21.22	21.23			(°C)
ORP				4			
Chloride				20			
Ferrous Iron							

Depth to Bottom	958.44	(In) (Minus)	Depth to Water	141.96	(In)	=	816.48	HT (in)
Depth to Bottom	79.87	(Ft) (Minus)	Depth to Water	11.83	(Ft)	=	68.04	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			816.48	1	3.14	2564	.0043	11.0		33.1	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW02
		SAMPLE NO. UST1115-MW02

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0830
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.18	5.15	4.89	4.88			(STD)
Specific Conductivity	0.140	0.131	0.130	0.136			(m S/cm)
Turbidity (Turb)	850.4	36.4	12.0	12.0			(NTU)
Dissolved Oxygen (DO)	3.27	0.87	0.27	0.27			(mg/l)
Temperature (Temp)	25.78	25.29	25.60	25.59			(°C)
ORP	105.6	146.3	174.3	174.2			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	166.80	(In) (Minus)	Depth to Water	98.76	(In)	=	68.04	HT (in)
Depth to Bottom	13.90	(Ft) (Minus)	Depth to Water	8.23	(Ft)	=	5.67	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			68.04	1	3.14	214	.0043	0.9		2.8	3
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW21
		SAMPLE NO.UST1115-MW21

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/2/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0900
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.36	4.69	4.69	4.65			(STD)
Specific Conductivity	0.161	0.120	0.120	0.120			(m S/cm)
Turbidity (Turb)	188.3	40.5	48.0	47.9			(NTU)
Dissolved Oxygen (DO)	3.88	0.23	0.07	0.07			(mg/l)
Temperature (Temp)	23.18	23.09	23.15	23.14			(°C)
ORP	62.8	18.1	2.3	2.4			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	602.40	(In) (Minus)	Depth to Water	108.60	(In)	=	493.80	HT (in)
Depth to Bottom	50.20	(Ft) (Minus)	Depth to Water	9.05	(Ft)	=	41.15	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			493.80	1	3.14	1551	.0043	6.7		20	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in purge water

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW24	
SAMPLE NO. UST1115-MW24	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer
DATE 10/2/06	
TIME 1000	
No	

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.83	6.79	6.73	6.73			(STD)
Specific Conductivity	1.200	1.249	1.233	1.233			(m S/cm)
Turbidity (Turb)	73.9	82.4	148.6	147.6			(NTU)
Dissolved Oxygen (DO)	0.84	0.33	0.11	0.11			(mg/l)
Temperature (Temp)	22.66	22.82	22.98	22.95			(°C)
ORP	-192.1	-207.7	-202.7	-202.4			
Chloride							
Ferrous Iron							

Depth to Bottom	954.20	(In) (Minus)	Depth to Water	122.52	(In)	=	831.72	HT (in)
Depth to Bottom	79.52	(Ft) (Minus)	Depth to Water	10.21	(Ft)	=	69.31	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			831.72	1	3.14	2612	.0043	11.2		33.7	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in Purge Water.

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115GT-MW07
		SAMPLE NO. UST1115GT-MW07

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/9/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1100
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=	HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: NO Readings taken Well Bubbling/Surging
Had to HAND BAIL

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: HPFF
WELL NO. UST 1115 - MW25
SAMPLE NO. UST1115 - MW25

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/3/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1230
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	8.09	7.48	7.17	7.04			(STD)
Specific Conductivity	0.827	0.574	0.561	0.560			(m S/cm)
Turbidity (Turb)	23.1	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	6.57	1.35	0.48	0.47			(mg/l)
Temperature (Temp)	24.13	24.07	24.06	24.06			(°C)
ORP	~~24607~~	-240.7	-148.7	-144.2			
Chloride				4			
Ferrous Iron				2			

Depth to Bottom	961.20	(In) (Minus)	Depth to Water	116.40	(In)	=	844.80	HT (in)
Depth to Bottom	80.16	(Ft) (Minus)	Depth to Water	9.70	(Ft)	=	70.4	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			844.80	1	3.14	2653	.0043	11.4		34.2	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW13
		SAMPLE NO.UST1115-MW13

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/3/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1330
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.84	6.12	4.39	3.86			(STD)
Specific Conductivity	1.997	2.670	3.744	3.996			(m S/cm)
Turbidity (Turb)	976.1	289.6	293.7	289.9			(NTU)
Dissolved Oxygen (DO)	6.53	2.17	1.63	0.79			(mg/l)
Temperature (Temp)	25.13	24.97	24.96	24.85			(°C)
ORP	365.1	357.4	356.7	355.9			
Chloride				4			
Ferrous Iron				20			

Depth to Bottom	615.50	(In) (Minus)	Depth to Water	106.20	(In)	=	509.40	HT (in)
Depth to Bottom	51.30	(Ft) (Minus)	Depth to Water	8.85	(Ft)	=	42.45	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			509.40	1	3.14	1600	.0043	6.9		20.6	22
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909	
PROJECT NAME: HPFF	
WELL NO. UST1115 - MW01	
SAMPLE NO. UST1115 - MW01	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 10/3/06

TIME 1500

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.17						(STD)
Specific Conductivity	0.183						(m S/cm)
Turbidity (Turb)	1157.4						(NTU)
Dissolved Oxygen (DO)	1.39						(mg/l)
Temperature (Temp)	21.49						(°C)
ORP	435.8						
Chloride	—						
Ferrous Iron	—						

Depth to Bottom	174.36	(In) (Minus)	Depth to Water	103.20	(In)	=	71.16	HT (in)
Depth to Bottom	14.53	(Ft) (Minus)	Depth to Water	8.60	(Ft)	=	5.93	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			71.16	1	3.14	223	.0043	1.0	2.9	1.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Well Purged Dry 1.5x Vol

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 119909
		PROJECT NAME: HPFF
		WELL NO. UST1115GT-MW01
		SAMPLE NO. UST1115GT-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 10/3/02
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1430
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm)
Turbidity (Turb)							(NTU)
Dissolved Oxygen (DO)							(mg/l)
Temperature (Temp)							(°C)
ORP							
Chloride							
Ferrous Iron							

Depth to Bottom	211.20	(In) (Minus)	Depth to Water	50.16	(In)	=	161.04	HT (in)
Depth to Bottom	17.60	(Ft) (Minus)	Depth to Water	4.18	(Ft)	=	13.42	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			161.04	1	3.14	506	.0043	2.2		6.5	2
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purged Dry 1x Vol. No Readings Taken.

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: BM 820
WELL NO. UST820-~~MW~~ PW01
SAMPLE NO.UST820-~~MW~~ PW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 1/3/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1415
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	19.75			19.21			(°C)
Specific Conductivity	0.576			0.297			(mS/cm°)
Dissolved Oxygen (DO)	4.96			3.82			(mg/L)
PH	4.13			5.63			(STD)
ORP	139.4			201.6			mV
Turbidity (Turb)	876.4			174.5			(NTU)

Depth to Bottom	405.72	(In) (Minus)	Depth to Water	124.80	(In)	=	280.92	HT (in)
Depth to Bottom	33.81	(Ft) (Minus)	Depth to Water	10.40	(Ft)	=	23.41	HT (ft)

d = 6
r = 3
d/2 = 3

MEASUREMENTS (IN INCHES)
Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			280.92	1	3.14	7939	.0043	34.1		102.	50.
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOA	3	40-ML	HCL
PAH	2	1 Liter Amber	None
Lead	1	.5 Liter Plastic	HNO3

COMMENTS: Readings Stabilized Bio Smas in well

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 119909
PROJECT NAME: BM 820
WELL NO. UST820-MW 09
SAMPLE NO.UST820-MW 09

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 1/3/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1330
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.49			22.75			(°C)
Specific Conductivity	7.749			8.960			(mS/cm°)
Dissolved Oxygen (DO)	6.38			0.16			(mg/L)
PH	3.15			2.89			(STD)
ORP	176.4			421.3			mV
Turbidity (Turb)	22.1			12.4			(NTU)

Depth to Bottom	625.20	(In) (Minus)	Depth to Water	136.80	(In)	=	488.40	HT (in)
Depth to Bottom	52.10	(Ft) (Minus)	Depth to Water	11.40	(Ft)	=	40.70	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			488.40	1	3.14	1534	.0043	6.6		19.8	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOA	3	40-ML	HCL
PAH	2	1 Liter Amber	None
Lead	1	.5 Liter Plastic	HNO3

COMMENTS: Readings Stabilized

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

APPENDIX E

LABORATORY GROUNDWATER ANALYTICAL REPORTS, SOUTHEAST COMPOUND

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/07/06

Technical Report for

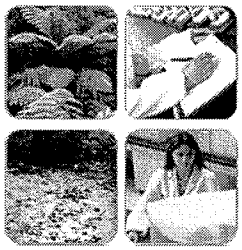
Shaw E & I, Inc.

Camp Lejeune-SE

117407

Accutest Job Number: F38019

Sampling Date: 01/23/06



Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 40

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006 50 YEARS OF EXCELLENCE Accutest Laboratories

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

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F38019

Camp Lejeune-SE
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F38019-1	01/23/06	10:45	RK	01/24/06	AQ	Ground Water	USTHPFF-MW18
F38019-2	01/23/06	11:30	RK	01/24/06	AQ	Ground Water	USTHPFF-MW01
F38019-3	01/23/06	00:00	RK	01/24/06	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F38019-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058440.D	20	01/31/06	TD	n/a	n/a	GEF3922
Run #2 [a]	EF058472.D	500	02/01/06	TD	n/a	n/a	GEF3923

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12400 [b]	500	250	ug/l	
108-90-7	Chlorobenzene	22.4	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene [c]	ND	370	370	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	1220	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	26100 [b]	500	250	ug/l	
1330-20-7	Xylenes (total)	8650 [b]	1500	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	106%	102%	71-124%

(a) All hits confirmed by GC/MS.
(b) Result is from Run# 2
(c) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F38019-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021180.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	57.9	0.50	0.30	ug/l	
74-84-0	Ethane	12.9	1.0	0.60	ug/l	
74-85-1	Ethene	8.81	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F38019-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011027.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2 [a]	PP011069.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1010 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND [b]	32	7.9	ug/l	
120-12-7	Anthracene	ND	2.0	0.99	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.099	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.099	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.099	ug/l	
218-01-9	Chrysene	ND	2.0	0.99	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	0.99	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	473 [b]	16	7.9	ug/l	
90-12-0	1-Methylnaphthalene	40.8 [b]	16	4.0	ug/l	
91-57-6	2-Methylnaphthalene	117 [b]	16	4.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.99	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%	88%	36-114%
92-94-4	p-Terphenyl	81%	80%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F38019-1	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 15:29	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 15:29	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/24/06 15:29	MP	EPA 300/SW846 9056
Sulfate	27.0	2.0	mg/l	1	01/24/06 15:29	MP	EPA 300/SW846 9056
Total Organic Carbon	56.2	10	mg/l	10	01/27/06 12:33	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F38019-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058441.D	20	01/31/06	TD	n/a	n/a	GEF3922
Run #2 [a]	EF058507.D	500	02/02/06	TD	n/a	n/a	GEF3925

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2860 [b]	500	250	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	500	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	2850 [b]	500	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.8	20	10	ug/l	
108-88-3	Toluene	20300 [b]	500	250	ug/l	
1330-20-7	Xylenes (total)	13100 [b]	1500	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	102%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	101%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F38019-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021181.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	600	0.50	0.30	ug/l	
74-84-0	Ethane	3.45	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F38019-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011029.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2 [a]	PP011071.D	5	02/06/06	MRE	01/30/06	OP15605	GPP387

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND [b]	19	4.9	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	404 [b]	9.7	4.9	ug/l	
90-12-0	1-Methylnaphthalene	60.5 [b]	9.7	2.4	ug/l	
91-57-6	2-Methylnaphthalene	107 [b]	9.7	2.4	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%	80%	36-114%
92-94-4	p-Terphenyl	79%	79%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F38019-2	Date Sampled:	01/23/06
Matrix:	AQ - Ground Water	Date Received:	01/24/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/24/06 15:46	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/24/06 15:46	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/24/06 15:46	MP	EPA 300/SW846 9056
Sulfate	8.9	2.0	mg/l	1	01/24/06 15:46	MP	EPA 300/SW846 9056
Total Organic Carbon	12.1	1.0	mg/l	1	01/25/06 12:22	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F38019-3	Date Sampled:	01/23/06
Matrix:	AQ - Trip Blank Water	Date Received:	01/24/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058500.D	1	02/02/06	TD	n/a	n/a	GEF3923
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-130%
98-08-8	aaa-Trifluorotoluene	97%		71-124%

(a) No sample available for reanalysis.
(b) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN-OF-CUSTODY RECORD F38019

COC Number: 117407-SE-012306

Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3, NO_2, NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	USTHPFF-MW18	1/23/06	10:45		X	(1) USTHPFF-MW18	11	X	X	X	X	X	X
2	USTHPFF-MW01	1/23/06	11:30		X	(2) USTHPFF-MW01	11	X	X	X	X	X	X
3	Trip Blank 012306	1/23/06			X	(3) TripBlank	2	X					
4													
5													
6													
7													
8													
9													
10													

Analysis Desired

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 3		FedEx 8542 8326 1034	1/23/06	18:00	14 Day TAT
2	FX			1/24/06	0900	

J. 6

F38019: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F38019 CLIENT: SWAN E&I PROJECT: Camp Lejeune - SE

DATE/TIME RECEIVED: 1/24/06 0900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2-6

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

AIRBILL NUMBERS: 8542 8326 1034

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: ALS 1/24/06 TECHNICIAN SIGNATURE/DATE:

3.1
3

F38019: Chain of Custody
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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3922-MB	EF058439.D	1	01/31/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-MB	EF058464.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	71-130%
98-08-8	aaa-Trifluorotoluene	89%	71-124%

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-MB	EF058506.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	71-124%

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-MB	XY021178.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38019-1, F38019-2

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3922-BS	EF058438.D	1	01/31/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-90-7	Chlorobenzene	20	22.4	112	76-120
95-50-1	1,2-Dichlorobenzene	20	18.6	93	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	20.3	102	68-121
100-41-4	Ethylbenzene	20	22.3	112	79-124
1634-04-4	Methyl Tert Butyl Ether	20	20.4	102	73-118

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	71-130%
98-08-8	aaa-Trifluorotoluene	103%	71-124%

Blank Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-BS	EF058463.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	81-121
108-90-7	Chlorobenzene	20	22.1	111	76-120
95-50-1	1,2-Dichlorobenzene	20	21.0	105	63-127
541-73-1	1,3-Dichlorobenzene	20	21.9	110	70-124
106-46-7	1,4-Dichlorobenzene	20	21.7	109	68-121
100-41-4	Ethylbenzene	20	22.2	111	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	73-118
108-88-3	Toluene	20	21.2	106	79-122
1330-20-7	Xylenes (total)	60	64.9	108	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-BS	EF058505.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	81-121
95-50-1	1,2-Dichlorobenzene	20	16.8	84	63-127
100-41-4	Ethylbenzene	20	19.0	95	79-124
108-88-3	Toluene	20	18.5	93	79-122
1330-20-7	Xylenes (total)	60	55.7	93	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	71-124%

Blank Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-BS	XY021179.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38019-1, F38019-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	100	93	60-135
74-84-0	Ethane	219	193	88	64-141
74-85-1	Ethene	290	260	90	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38020-4MS	EF058458.D	1	02/01/06	TD	n/a	n/a	GEF3922
F38020-4MSD	EF058459.D	1	02/01/06	TD	n/a	n/a	GEF3922
F38020-4 [a]	EF058448.D	1	02/01/06	TD	n/a	n/a	GEF3922

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-2

CAS No.	Compound	F38020-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-90-7	Chlorobenzene	ND		20	17.8	89	18.0	90	1	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	13.5	68	13.4	67	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	15.4	77	15.4	77	0	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	14.4	72	14.4	72	0	61-133/11
100-41-4	Ethylbenzene	ND		20	16.8	84	17.0	85	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	15.9	80	16.7	84	5	63-130/11

CAS No.	Surrogate Recoveries	MS	MSD	F38020-4	Limits
460-00-4	4-Bromofluorobenzene	94%	93%	85%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	92%	87%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-5MS	EF058496.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5MSD	EF058497.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5 [a]	EF058495.D	1	02/02/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-1, F38019-3

CAS No.	Compound	F38146-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	18.9	95	19.4	97	3	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	19.5	98	20.0	100	3	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	15.2	76	16.8	84	10	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	17.8	89	18.7	94	5	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	16.5	83	17.3	87	5	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	19.1	96	19.2	96	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	17.1	86	18.1	91	6	63-130/11
108-88-3	Toluene	1.0	U	20	18.6	93	18.9	95	2	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.3	94	57.3	96	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-5	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	102%	96%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-2MS	EF058523.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2MSD	EF058524.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2	EF058517.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38019-2

CAS No.	Compound	F38146-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	19.1	96	19.0	95	1	74-126/11
95-50-1	1,2-Dichlorobenzene	1.0	U	20	16.7	84	17.0	85	2	55-136/13
100-41-4	Ethylbenzene	1.0	U	20	19.4	97	19.1	96	2	71-131/8
108-88-3	Toluene	1.0	U	20	18.9	95	18.8	94	1	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.6	94	56.2	94	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-2	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	105%	97%	71-124%

Matrix Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38020-4MS	XY021193.D	1	01/26/06	TD	n/a	n/a	GXY798
F38020-4	XY021185.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38019-1, F38019-2

CAS No.	Compound	F38020-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	ND		108	106	98	30-162
74-84-0	Ethane	ND		219	203	93	54-160
74-85-1	Ethene	ND		290	274	94	53-159

Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	F38054-3DUP	XY021198.D	5	01/26/06	TD	n/a	n/a	GXY798
	F38054-3	XY021197.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38019-1, F38019-2

CAS No.	Compound	F38054-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	3210	E	2870			27
74-84-0	Ethane	2.06		2.1			19
74-85-1	Ethene	7.88		7.04			18

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011026.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38019-1, F38019-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	88%	31-121%

Method Blank Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011068.D	1	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38019-1, F38019-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Blank Spike Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-BS	PP011025.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38019-1, F38019-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	15.9	80	60-98
208-96-8	Acenaphthylene	20	17.5	88	57-97
120-12-7	Anthracene	10	8.1	81	68-103
56-55-3	Benzo(a)anthracene	10	8.7	87	68-106
50-32-8	Benzo(a)pyrene	10	9.2	92	70-108
205-99-2	Benzo(b)fluoranthene	10	9.1	91	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.0	90	69-108
207-08-9	Benzo(k)fluoranthene	10	9.0	90	69-109
218-01-9	Chrysene	10	8.9	89	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.5	95	69-108
206-44-0	Fluoranthene	20	16.8	84	65-104
86-73-7	Fluorene	20	16.5	83	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.2	92	69-108
91-20-3	Naphthalene	20	15.7	79	52-91
90-12-0	1-Methylnaphthalene	20	15.6	78	54-94
91-57-6	2-Methylnaphthalene	20	15.3	77	55-94
85-01-8	Phenanthrene	20	17.5	88	62-102
129-00-0	Pyrene	20	17.9	90	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	36-114%
92-94-4	p-Terphenyl	95%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MS	PP011040.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
OP15605-MSD	PP011041.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38020-8 [a]	PP011039.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38019-1, F38019-2

CAS No.	Compound	F38020-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	7.1		38.5	36.7	77	35.8	75	2	42-119/25
208-96-8	Acenaphthylene	ND		38.5	43.3	113	41.8	109	4	40-121/25
120-12-7	Anthracene	ND		19.2	14.4	75	13.9	72	4	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	16.2	84	15.4	80	5	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.1	89	16.0	83	7	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	16.9	88	15.9	83	6	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	16.7	87	15.4	80	8	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	16.7	87	15.8	82	6	66-111/15
218-01-9	Chrysene	ND		19.2	16.5	86	15.6	81	6	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.7	92	16.5	86	7	66-111/14
206-44-0	Fluoranthene	ND		38.5	30.8	80	30.1	78	2	64-107/16
86-73-7	Fluorene	1.4	J	38.5	30.9	77	30.2	75	2	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	15.8	82	8	65-112/15
91-20-3	Naphthalene	58.7		38.5	102	113*	95.8	96	6	41-102/24
90-12-0	1-Methylnaphthalene	10.1		38.5	39.7	77	38.2	73	4	41-109/25
91-57-6	2-Methylnaphthalene	16.5		38.5	46.6	78	44.6	73	4	43-106/25
85-01-8	Phenanthrene	ND		38.5	31.4	82	30.7	80	2	59-105/20
129-00-0	Pyrene	ND		38.5	32.8	85	32.0	83	2	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F38020-8	Limits
84-15-1	o-Terphenyl	83%	81%	71%	36-114%
92-94-4	p-Terphenyl	89%	85%	75%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

Duplicate Summary

Job Number: F38019
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-DUP	PP011070.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387
F38019-1	PP011027.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38019-1 [a]	PP011069.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38019-1, F38019-2

CAS No.	Compound	F38019-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND [b]		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-20-3	Naphthalene	473 [b]		507		7	
90-12-0	1-Methylnaphthalene	40.8 [b]		47.5		15	
91-57-6	2-Methylnaphthalene	117 [b]		133		13	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F38019-1	F38019-1	Limits
84-15-1	o-Terphenyl	95%	87%	88%	36-114%
92-94-4	p-Terphenyl	89%	81%	80%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run #2.

General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38019
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7426/GN19569	2.0	<2.0	mg/l	50	47.7	95.4	90-110%
Fluoride	GP7426/GN19569	0.20	<0.20	mg/l	2.5	2.64	105.6	90-110%
Nitrogen, Nitrate	GP7426/GN19569	0.10	<0.10	mg/l	2.5	2.45	98.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	0.10	<0.10	mg/l	2.5	2.34	93.6	90-110%
Sulfate	GP7426/GN19569	2.0	<2.0	mg/l	50	48.9	97.8	90-110%
Total Organic Carbon	GP7424/GN19565	1.0	<1.0	mg/l	15	14.9	99.3	90-110%
Total Organic Carbon	GP7436/GN19597	1.0	<1.0	mg/l	15	15.3	102.0	90-110%

Associated Samples:
Batch GP7424: F38019-2
Batch GP7426: F38019-1, F38019-2
Batch GP7436: F38019-1

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38019
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7426/GN19569	F38019-1	mg/l	9.2	9.1	1.1	0-20%
Chloride	GP7426/GN19569	F38019-2	mg/l	8.4	8.4	0.0	0-20%
Fluoride	GP7426/GN19569	F38019-1	mg/l	<0.20	<0.20	0.0	0-20%
Fluoride	GP7426/GN19569	F38019-2	mg/l	<0.20	<0.20	0.0	0-20%
Nitrogen, Nitrate	GP7426/GN19569	F38019-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP7426/GN19569	F38019-2	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7426/GN19569	F38019-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7426/GN19569	F38019-2	mg/l	<0.10	<0.10	0.0	0-20%
Sulfate	GP7426/GN19569	F38019-1	mg/l	27.0	26.2	3.0	0-20%
Sulfate	GP7426/GN19569	F38019-2	mg/l	8.9	9.1	2.2	0-20%
Total Organic Carbon	GP7424/GN19565	F38035-1	mg/l	12.6	12.5	0.8	0-20%
Total Organic Carbon	GP7436/GN19597	F38030-1	mg/l	2460	2470	0.4	0-20%

Associated Samples:
Batch GP7424: F38019-2
Batch GP7426: F38019-1, F38019-2
Batch GP7436: F38019-1

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38019
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7426/GN19569	F38019-1	mg/l	9.2	50	62.5	106.6	90-110%
Chloride	GP7426/GN19569	F38019-2	mg/l	8.4	50	51.7(a)	86.6N(a)	90-110%
Fluoride	GP7426/GN19569	F38019-1	mg/l	<0.20	2.5	2.9(a)	116.ON(a)	90-110%
Fluoride	GP7426/GN19569	F38019-2	mg/l	<0.20	2.5	2.8(a)	112.ON(a)	90-110%
Nitrogen, Nitrate	GP7426/GN19569	F38019-1	mg/l	<0.10	2.5	2.5	100.0	90-110%
Nitrogen, Nitrate	GP7426/GN19569	F38019-2	mg/l	<0.10	2.5	2.4(a)	96.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	F38019-1	mg/l	<0.10	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP7426/GN19569	F38019-2	mg/l	<0.10	2.5	2.2(a)	88.ON(a)	90-110%
Sulfate	GP7426/GN19569	F38019-1	mg/l	27.0	50	68.5(a)	83.ON(a)	90-110%
Sulfate	GP7426/GN19569	F38019-2	mg/l	8.9	50	50.5(a)	83.2N(a)	90-110%
Total Organic Carbon	GP7424/GN19565	F38035-1	mg/l	12.6	15	26.2	90.7	75-125%
Total Organic Carbon	GP7436/GN19597	F38030-1	mg/l	2460	15	2220	0.0(b)	75-125%

Associated Samples:
Batch GP7424: F38019-2
Batch GP7426: F38019-1, F38019-2
Batch GP7436: F38019-1
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/23/06

Technical Report for

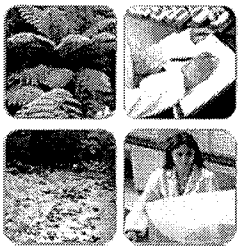
Shaw E & I, Inc.

Camp Lejeune-SE

117407

Accutest Job Number: F38054

Sampling Date: 01/24/06



Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 83

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006 50 YEARS OF EXCELLENCE Accutest Laboratories

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

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Sample Summary

Shaw E & I, Inc.

Job No: F38054

Camp Lejeune-SE
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F38054-1	01/24/06	07:50	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW09
F38054-2	01/24/06	08:40	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW05
F38054-3	01/24/06	09:30	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW20
F38054-4	01/24/06	10:25	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW19
F38054-5	01/24/06	12:00	RK	01/25/06	AQ	Ground Water	USTHPFF-MW17A
F38054-6	01/24/06	12:40	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW11
F38054-7	01/24/06	13:15	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW08
F38054-8	01/24/06	14:15	RK	01/25/06	AQ	Ground Water	USTHPFF-MW10R
F38054-9	01/24/06	14:45	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW07
F38054-10	01/24/06	15:30	RK	01/25/06	AQ	Ground Water	USTHPFFC-MW01
F38054-11	01/24/06	00:00	RK	01/25/06	AQ	Trip Blank Water	TRIP BLANK 012406

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F38054-1	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011231.D	1	01/31/06	AB	n/a	n/a	GQQ446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	3.0	3.0	ug/l	
541-73-1	1,3-Dichlorobenzene [b]	ND	1.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene [b]	ND	2.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	62.0	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-130%
98-08-8	aaa-Trifluorotoluene	105%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F38054-1	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021195.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	6.47	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F38054-1	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011042.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	84%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F38054-1	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 13:29	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 13:29	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 13:29	MP	EPA 300/SW846 9056
Sulfate	1260	20	mg/l	10	01/31/06 14:54	MP	EPA 300/SW846 9056
Total Organic Carbon	14.8	1.0	mg/l	1	01/28/06 11:38	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F38054-2	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011232.D	1	01/31/06	AB	n/a	n/a	GQQ446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.1	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		71-130%
98-08-8	aaa-Trifluorotoluene	94%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F38054-2	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021196.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	157	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F38054-2	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011043.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		36-114%
92-94-4	p-Terphenyl	61%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F38054-2	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 13:47	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 13:47	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 13:47	MP	EPA 300/SW846 9056
Sulfate	48.7	2.0	mg/l	1	01/25/06 13:47	MP	EPA 300/SW846 9056
Total Organic Carbon	4.7	1.0	mg/l	1	01/28/06 12:01	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F38054-3	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058512.D	250	02/02/06	TD	n/a	n/a	GEF3925
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4050	250	130	ug/l	
108-90-7	Chlorobenzene	ND	250	130	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	130	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	130	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	130	ug/l	
100-41-4	Ethylbenzene	698	250	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	130	ug/l	
108-88-3	Toluene	10600	250	130	ug/l	
1330-20-7	Xylenes (total)	3180	750	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F38054-3	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021197.D	1	01/26/06	TD	n/a	n/a	GXY798
Run #2	XY021282.D	5	02/02/06	TD	n/a	n/a	GXY804

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2130 [a]	2.5	1.5	ug/l	
74-84-0	Ethane	2.06	1.0	0.60	ug/l	
74-85-1	Ethene	7.88	1.0	0.80	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F38054-3	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011044.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2 [a]	PP011073.D	2	02/06/06	MRE	01/30/06	OP15605	GPP387

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND [b]	7.6	1.9	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	143 [b]	3.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	12.6 [b]	3.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	36.2 [b]	3.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%	88%	36-114%
92-94-4	p-Terphenyl	78%	75%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F38054-3	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 14:04	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 14:04	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 14:04	MP	EPA 300/SW846 9056
Sulfate	10.8	2.0	mg/l	1	01/25/06 14:04	MP	EPA 300/SW846 9056
Total Organic Carbon	14.2	1.0	mg/l	1	01/28/06 12:24	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F38054-4	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011293.D	200	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12100	200	100	ug/l	
108-90-7	Chlorobenzene	ND	200	100	ug/l	
95-50-1	1,2-Dichlorobenzene	346	200	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	100	ug/l	
100-41-4	Ethylbenzene	711	200	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	100	ug/l	
108-88-3	Toluene	9910	200	100	ug/l	
1330-20-7	Xylenes (total)	3920	600	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	102%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F38054-4	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021204.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	27.5	0.50	0.30	ug/l	
74-84-0	Ethane	23.2	1.0	0.60	ug/l	
74-85-1	Ethene	2.9	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F38054-4	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011045.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2 [a]	PP011074.D	2	02/06/06	MRE	01/30/06	OP15605	GPP387

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND [b]	7.6	1.9	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	155 [b]	3.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	26.6 [b]	3.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	56.0 [b]	3.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%	91%	36-114%
92-94-4	p-Terphenyl	79%	77%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F38054-4	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	01/25/06 14:22	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	01/25/06 14:22	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	01/25/06 14:22	MP	EPA 300/SW846 9056
Sulfate	197	2.0	mg/l	1	01/25/06 14:22	MP	EPA 300/SW846 9056
Total Organic Carbon	184	15	mg/l	15	01/31/06 14:05	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFF-MW17A		
Lab Sample ID:	F38054-5	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011294.D	500	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5630	500	250	ug/l	
108-90-7	Chlorobenzene	ND	500	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	250	ug/l	
100-41-4	Ethylbenzene	2260	500	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	250	ug/l	
108-88-3	Toluene	22800	500	250	ug/l	
1330-20-7	Xylenes (total)	9200	1500	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW17A		
Lab Sample ID:	F38054-5	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021205.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	253	0.50	0.30	ug/l	
74-84-0	Ethane	13.7	1.0	0.60	ug/l	
74-85-1	Ethene	8.19	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW17A		
Lab Sample ID:	F38054-5	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011046.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2 [a]	PP011075.D	4	02/06/06	MRE	01/30/06	OP15605	GPP387

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND [b]	15	3.8	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.17	0.19	0.048	ug/l	J
50-32-8	Benzo(a)pyrene	0.097	0.19	0.096	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.14	0.19	0.048	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	0.19	0.048	ug/l	J
91-20-3	Naphthalene	302 [b]	7.7	3.8	ug/l	
90-12-0	1-Methylnaphthalene	53.8 [b]	7.7	1.9	ug/l	
91-57-6	2-Methylnaphthalene	145 [b]	7.7	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	0.81	1.9	0.48	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%	87%	36-114%
92-94-4	p-Terphenyl	79%	75%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW17A		
Lab Sample ID:	F38054-5	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 14:40	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 14:40	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 14:40	MP	EPA 300/SW846 9056
Sulfate	7.6	2.0	mg/l	1	01/25/06 14:40	MP	EPA 300/SW846 9056
Total Organic Carbon	57.3	5.0	mg/l	5	01/31/06 14:29	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F38054-6	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011307.D	10	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	96.7	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	33.5	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
108-88-3	Toluene	471	10	5.0	ug/l	
1330-20-7	Xylenes (total)	133	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F38054-6	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021206.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	247	0.50	0.30	ug/l	
74-84-0	Ethane	0.65	1.0	0.60	ug/l	J
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F38054-6	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011049.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	3.9	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.49	1.9	0.48	ug/l	J
91-57-6	2-Methylnaphthalene	1.4	1.9	0.48	ug/l	J
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		36-114%
92-94-4	p-Terphenyl	57%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F38054-6	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 14:57	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 14:57	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 14:57	MP	EPA 300/SW846 9056
Sulfate	9.2	2.0	mg/l	1	01/25/06 14:57	MP	EPA 300/SW846 9056
Total Organic Carbon	4.7	1.0	mg/l	1	01/28/06 13:34	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F38054-7	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011295.D	100	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7480	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
100-41-4	Ethylbenzene	331	100	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
108-88-3	Toluene	327	100	50	ug/l	
1330-20-7	Xylenes (total)	617	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-130%
98-08-8	aaa-Trifluorotoluene	101%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F38054-7	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021207.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	141	0.50	0.30	ug/l	
74-84-0	Ethane	25.1	1.0	0.60	ug/l	
74-85-1	Ethene	22.1	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F38054-7	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011050.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	87.7	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	11.7	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	19.2	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F38054-7	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/25/06 15:15	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/25/06 15:15	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/25/06 15:15	MP	EPA 300/SW846 9056
Sulfate	8.6	2.0	mg/l	1	01/25/06 15:15	MP	EPA 300/SW846 9056
Total Organic Carbon	86.3	10	mg/l	10	01/28/06 14:42	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F38054-8	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ011306.D	50	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1770	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	158	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	631	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	142	50	25	ug/l	
108-88-3	Toluene	2190	50	25	ug/l	
1330-20-7	Xylenes (total)	2940	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	106%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F38054-8	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021208.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2	XY021283.D	5	02/02/06	TD	n/a	n/a	GXY804

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	1900 [a]	2.5	1.5	ug/l	
74-84-0	Ethane	9.58	1.0	0.60	ug/l	
74-85-1	Ethene	0.99	1.0	0.80	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F38054-8	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP011076.D	1	02/06/06	MRE	01/30/06	OP15605	GPP387
Run #2 [a]	PP011051.D	4	02/03/06	MRE	01/30/06	OP15605	GPP386

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2	970 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND [b]	16	4.1	ug/l	
120-12-7	Anthracene	ND	2.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	1.3	0.21	0.052	ug/l	
50-32-8	Benzo(a)pyrene	0.63	0.21	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	0.75	0.21	0.052	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.33	0.21	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	0.38	0.21	0.10	ug/l	
218-01-9	Chrysene	1.6	2.1	1.0	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.074	0.21	0.052	ug/l	J
206-44-0	Fluoranthene	6.2	2.1	0.52	ug/l	
86-73-7	Fluorene	ND	2.1	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.32	0.21	0.052	ug/l	
91-20-3	Naphthalene	99.6 [b]	8.2	4.1	ug/l	
90-12-0	1-Methylnaphthalene	42.3 [b]	8.2	2.1	ug/l	
91-57-6	2-Methylnaphthalene	124 [b]	8.2	2.1	ug/l	
85-01-8	Phenanthrene	4.9	2.1	1.0	ug/l	
129-00-0	Pyrene	4.2	2.1	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%	83%	36-114%
92-94-4	p-Terphenyl	77%	76%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F38054-8	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/26/06 10:04	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/26/06 10:04	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/26/06 10:04	MP	EPA 300/SW846 9056
Sulfate	7.2	2.0	mg/l	1	01/26/06 10:04	MP	EPA 300/SW846 9056
Total Organic Carbon	74.0	10	mg/l	10	01/28/06 15:07	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F38054-9	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011296.D	1	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F38054-9	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021209.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	58.3	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F38054-9	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011052.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
92-94-4	p-Terphenyl	85%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F38054-9	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/26/06 10:21	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/26/06 10:21	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/26/06 10:21	MP	EPA 300/SW846 9056
Sulfate	70.2	2.0	mg/l	1	01/26/06 10:21	MP	EPA 300/SW846 9056
Total Organic Carbon	2.5	1.0	mg/l	1	01/28/06 15:30	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F38054-10	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ011299.D	1	02/02/06	AB	n/a	n/a	GQQ448
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F38054-10	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021210.D	1	01/27/06	TD	n/a	n/a	GXY799
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	12.6	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F38054-10	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011053.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
92-94-4	p-Terphenyl	86%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@46324 13:24 23-Feb-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F38054-10	Date Sampled:	01/24/06
Matrix:	AQ - Ground Water	Date Received:	01/25/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.64	0.10	mg/l	1	01/26/06 10:39	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.64	0.20	mg/l	1	01/26/06 10:39	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/26/06 10:39	MP	EPA 300/SW846 9056
Sulfate	62.5	2.0	mg/l	1	01/26/06 10:39	MP	EPA 300/SW846 9056
Total Organic Carbon	2.3	1.0	mg/l	1	01/28/06 15:52	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	TRIP BLANK 012406		
Lab Sample ID:	F38054-11	Date Sampled:	01/24/06
Matrix:	AQ - Trip Blank Water	Date Received:	01/25/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058487.D	1	02/01/06	TD	n/a	n/a	GEF3923
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

(a) No sample available for reanalysis.
(b) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN-OF-CUSTODY RECORD

COC Number:
117407-SE-012406

F38054

Shaw
Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	USTHPFFC-MW09	1/24/06	7:50		X	USTHPFFC-MW09	11	X	X	X	X	X	X
2	USTHPFFC-MW05	1/24/06	8:40		X	USTHPFFC-MW05	11	X	X	X	X	X	X
3	USTHPFFC-MW20	1/24/06	9:30		X	USTHPFFC-MW20	11	X	X	X	X	X	X
4	USTHPFFC-MW19	1/24/06	10:25		X	USTHPFFC-MW19	11	X	X	X	X	X	X
5	USTHPFF-MW17A	1/24/06	12:00		X	USTHPFF-MW17A	11	X	X	X	X	X	X
6	USTHPFFC-MW11	1/24/06	12:40		X	USTHPFFC-MW11	11	X	X	X	X	X	X
7	USTHPFFC-MW08	1/24/06	13:15		X	USTHPFFC-MW08	11	X	X	X	X	X	X
8	USTHPFF-MW10R	1/24/06	14:15		X	USTHPFF-MW10R	11	X	X	X	X	X	X
9	USTHPFFC-MW07	1/24/06	14:45		X	USTHPFFC-MW07	11	X	X	X	X	X	X
10	USTHPFFC-MW01	1/24/06	15:30		X	USTHPFFC-MW01	11	X	X	X	X	X	X
11	Trip Blank 012406	1/24/06	----		X	Trip Blank	2	X					

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 11		FedEx 8530 7647 8903	1/24/06	18:00	14 Day TAT
2		Fx	Steven Green	1-25-06	9:15	
3						2.6, 1.0, 2.6

F38054: Chain of Custody
Page 1 of 2

ACCUTEST
F38054

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F38054 CLIENT: Shaw E+I PROJECT: Camp LeJeune -SE

DATE/TIME RECEIVED: 1-25-06 / 9:15 # OF COOLERS RECEIVED: 3 COOLER TEMPS: 2.6, 1.0, 2.6

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

AIRBILL NUMBERS: 8530-7647-8903

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [X] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [X] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: 500ml poly Recieved for MW-01 (10) is marked chloride on Bottle not NO3 as COC suggests.

TECHNICIAN SIGNATURE/DATE Steven Broom / 1-25-06 TECHNICIAN SIGNATURE/DATE

ASRD0C/00/05

F38054: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-MB	QQ011230.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-1, F38054-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	71-130%
98-08-8	aaa-Trifluorotoluene	98%	71-124%

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-MB	EF058464.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	71-130%
98-08-8	aaa-Trifluorotoluene	89%	71-124%

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-MB	EF058506.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	71-124%

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-MB	QQ011292.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-MB	XY021178.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-1, F38054-2, F38054-3

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY799-MB	XY021202.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY804-MB	XY021279.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-3, F38054-8

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ446-BS	QQ011229.D	1	01/31/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-1, F38054-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.5	93	81-121
108-90-7	Chlorobenzene	20	18.7	94	76-120
95-50-1	1,2-Dichlorobenzene	20	18.0	90	63-127
541-73-1	1,3-Dichlorobenzene	20	18.1	91	70-124
106-46-7	1,4-Dichlorobenzene	20	17.0	85	68-121
100-41-4	Ethylbenzene	20	18.5	93	79-124
1634-04-4	Methyl Tert Butyl Ether	20	21.5	108	73-118
108-88-3	Toluene	20	18.8	94	79-122
1330-20-7	Xylenes (total)	60	55.1	92	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-BS	EF058463.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	81-121
108-90-7	Chlorobenzene	20	22.1	111	76-120
95-50-1	1,2-Dichlorobenzene	20	21.0	105	63-127
541-73-1	1,3-Dichlorobenzene	20	21.9	110	70-124
106-46-7	1,4-Dichlorobenzene	20	21.7	109	68-121
100-41-4	Ethylbenzene	20	22.2	111	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	73-118
108-88-3	Toluene	20	21.2	106	79-122
1330-20-7	Xylenes (total)	60	64.9	108	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3925-BS	EF058505.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	81-121
108-90-7	Chlorobenzene	20	19.7	99	76-120
95-50-1	1,2-Dichlorobenzene	20	16.8	84	63-127
541-73-1	1,3-Dichlorobenzene	20	18.6	93	70-124
106-46-7	1,4-Dichlorobenzene	20	17.4	87	68-121
100-41-4	Ethylbenzene	20	19.0	95	79-124
1634-04-4	Methyl Tert Butyl Ether	20	17.9	90	73-118
108-88-3	Toluene	20	18.5	93	79-122
1330-20-7	Xylenes (total)	60	55.7	93	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	71-124%

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-BS	QQ011291.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.9	100	81-121
108-90-7	Chlorobenzene	20	19.4	97	76-120
95-50-1	1,2-Dichlorobenzene	20	18.7	94	63-127
541-73-1	1,3-Dichlorobenzene	20	19.0	95	70-124
106-46-7	1,4-Dichlorobenzene	20	17.8	89	68-121
100-41-4	Ethylbenzene	20	19.2	96	79-124
1634-04-4	Methyl Tert Butyl Ether	20	19.6	98	73-118
108-88-3	Toluene	20	19.9	100	79-122
1330-20-7	Xylenes (total)	60	57.3	96	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	71-124%

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY798-BS	XY021179.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-1, F38054-2, F38054-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	100	93	60-135
74-84-0	Ethane	219	193	88	64-141
74-85-1	Ethene	290	260	90	63-139

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY799-BS	XY021203.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	92.4	86	60-135
74-84-0	Ethane	219	176	80	64-141
74-85-1	Ethene	290	238	82	63-139

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY804-BS	XY021280.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-3, F38054-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	106	98	60-135

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38104-3MS	QQ011249.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3MSD	QQ011250.D	1	02/01/06	AB	n/a	n/a	GQQ446
F38104-3 [a]	QQ011252.D	1	02/01/06	AB	n/a	n/a	GQQ446

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-1, F38054-2

CAS No.	Compound	F38104-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.7	94	18.1	91	3	74-126/11
108-90-7	Chlorobenzene	ND		20	18.6	93	18.6	93	0	72-124/8
95-50-1	1,2-Dichlorobenzene	0.54		20	18.7	91	18.6	90	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	18.4	92	18.1	91	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	17.3	87	17.2	86	1	61-133/11
100-41-4	Ethylbenzene	ND		20	18.6	93	18.5	93	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	28.8		20	51.1	112	49.5	104	3	63-130/11
108-88-3	Toluene	ND		20	18.6	93	18.5	93	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	55.3	92	54.9	92	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38104-3	Limits
460-00-4	4-Bromofluorobenzene	102%	103%	96%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	93%	90%	71-124%

(a) All hits confirmed by GC/MS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-5MS	EF058496.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5MSD	EF058497.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5 [a]	EF058495.D	1	02/02/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-11

CAS No.	Compound	F38146-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U		20	18.9	95	19.4	97	3	74-126/11
108-90-7	Chlorobenzene	1.0 U		20	19.5	98	20.0	100	3	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0 U		20	15.2	76	16.8	84	10	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0 U		20	17.8	89	18.7	94	5	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0 U		20	16.5	83	17.3	87	5	61-133/11
100-41-4	Ethylbenzene	1.0 U		20	19.1	96	19.2	96	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0 U		20	17.1	86	18.1	91	6	63-130/11
108-88-3	Toluene	1.0 U		20	18.6	93	18.9	95	2	69-132/7
1330-20-7	Xylenes (total)	3.0 U		60	56.3	94	57.3	96	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-5	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	102%	96%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-2MS	EF058523.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2MSD	EF058524.D	1	02/02/06	TD	n/a	n/a	GEF3925
F38146-2	EF058517.D	1	02/02/06	TD	n/a	n/a	GEF3925

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-3

CAS No.	Compound	F38146-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	19.1	96	19.0	95	1	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	20.0	100	19.7	99	2	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	16.7	84	17.0	85	2	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	18.9	95	19.0	95	1	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	17.8	89	17.8	89	0	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	19.4	97	19.1	96	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	18.1	91	18.2	91	1	63-130/11
108-88-3	Toluene	1.0	U	20	18.9	95	18.8	94	1	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.6	94	56.2	94	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-2	Limits
460-00-4	4-Bromofluorobenzene	104%	106%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	105%	97%	71-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38054-4MS	QQ011303.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4MSD	QQ011304.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4 [a]	QQ011293.D	200	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	F38054-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	12100		4000	16000	98	15700	90	2	74-126/11
108-90-7	Chlorobenzene	ND		4000	3850	96	3780	95	2	72-124/8
95-50-1	1,2-Dichlorobenzene	346		4000	3830	87	3790	86	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		4000	3820	96	3750	94	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		4000	3600	90	3580	90	1	61-133/11
100-41-4	Ethylbenzene	711		4000	4550	96	4480	94	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		4000	4080	102	3960	99	3	63-130/11
108-88-3	Toluene	9910		4000	13800	97	13500	90	2	69-132/7
1330-20-7	Xylenes (total)	3920		12000	15400	96	15200	94	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38054-4	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	99%	102%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38020-4MS	XY021193.D	1	01/26/06	TD	n/a	n/a	GXY798
F38020-4	XY021185.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-1, F38054-2, F38054-3

CAS No.	Compound	F38020-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	ND		108	106	98	30-162
74-84-0	Ethane	ND		219	203	93	54-160
74-85-1	Ethene	ND		290	274	94	53-159

Matrix Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38104-2MS	XY021221.D	1	01/27/06	TD	n/a	n/a	GXY799
F38104-2	XY021219.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	F38104-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	ND		108	97.4	90	30-162
74-84-0	Ethane	ND		219	185	84	54-160
74-85-1	Ethene	ND		290	252	87	53-159

Matrix Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38106-4MS	XY021298.D	1	02/02/06	TD	n/a	n/a	GXY804
F38106-4	XY021293.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-3, F38054-8

CAS No.	Compound	F38106-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.34	J	108	95.7	88	30-162

Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38054-3DUP	XY021198.D	5	01/26/06	TD	n/a	n/a	GXY798
F38054-3	XY021197.D	1	01/26/06	TD	n/a	n/a	GXY798

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-1, F38054-2, F38054-3

CAS No.	Compound	F38054-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	3210	E	2870		11	27
74-84-0	Ethane	2.06		2.1		0	19
74-85-1	Ethene	7.88		7.04		11	18

Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38067-3DUP	XY021222.D	1	01/27/06	TD	n/a	n/a	GXY799
F38067-3	XY021215.D	1	01/27/06	TD	n/a	n/a	GXY799

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	F38067-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	751		671		11	27
74-84-0	Ethane	1.0 U		ND		nc	19
74-85-1	Ethene	6.62		6.22		6	18

Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38054-8DUP	XY021284.D	5	02/02/06	TD	n/a	n/a	GXY804
F38054-8	XY021283.D	5	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38054-3, F38054-8

CAS No.	Compound	F38054-8 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1900		1900		0	27

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011026.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38054-1, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	88%	31-121%

Method Blank Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MB	PP011068.D	1	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38054-1, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	87%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Blank Spike Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-BS	PP011025.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38054-1, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	15.9	80	60-98
208-96-8	Acenaphthylene	20	17.5	88	57-97
120-12-7	Anthracene	10	8.1	81	68-103
56-55-3	Benzo(a)anthracene	10	8.7	87	68-106
50-32-8	Benzo(a)pyrene	10	9.2	92	70-108
205-99-2	Benzo(b)fluoranthene	10	9.1	91	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.0	90	69-108
207-08-9	Benzo(k)fluoranthene	10	9.0	90	69-109
218-01-9	Chrysene	10	8.9	89	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.5	95	69-108
206-44-0	Fluoranthene	20	16.8	84	65-104
86-73-7	Fluorene	20	16.5	83	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.2	92	69-108
91-20-3	Naphthalene	20	15.7	79	52-91
90-12-0	1-Methylnaphthalene	20	15.6	78	54-94
91-57-6	2-Methylnaphthalene	20	15.3	77	55-94
85-01-8	Phenanthrene	20	17.5	88	62-102
129-00-0	Pyrene	20	17.9	90	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	36-114%
92-94-4	p-Terphenyl	95%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-MS	PP011040.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
OP15605-MSD	PP011041.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38020-8 [a]	PP011039.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386

The QC reported here applies to the following samples: Method: EPA 610

F38054-1, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	F38020-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	7.1		38.5	36.7	77	35.8	75	2	42-119/25
208-96-8	Acenaphthylene	ND		38.5	43.3	113	41.8	109	4	40-121/25
120-12-7	Anthracene	ND		19.2	14.4	75	13.9	72	4	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	16.2	84	15.4	80	5	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.1	89	16.0	83	7	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	16.9	88	15.9	83	6	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	16.7	87	15.4	80	8	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	16.7	87	15.8	82	6	66-111/15
218-01-9	Chrysene	ND		19.2	16.5	86	15.6	81	6	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.7	92	16.5	86	7	66-111/14
206-44-0	Fluoranthene	ND		38.5	30.8	80	30.1	78	2	64-107/16
86-73-7	Fluorene	1.4	J	38.5	30.9	77	30.2	75	2	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	15.8	82	8	65-112/15
91-20-3	Naphthalene	58.7		38.5	102	113*	95.8	96	6	41-102/24
90-12-0	1-Methylnaphthalene	10.1		38.5	39.7	77	38.2	73	4	41-109/25
91-57-6	2-Methylnaphthalene	16.5		38.5	46.6	78	44.6	73	4	43-106/25
85-01-8	Phenanthrene	ND		38.5	31.4	82	30.7	80	2	59-105/20
129-00-0	Pyrene	ND		38.5	32.8	85	32.0	83	2	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F38020-8	Limits
84-15-1	o-Terphenyl	83%	81%	71%	36-114%
92-94-4	p-Terphenyl	89%	85%	75%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

Duplicate Summary

Job Number: F38054
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15605-DUP	PP011070.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387
F38019-1	PP011027.D	1	02/03/06	MRE	01/30/06	OP15605	GPP386
F38019-1 [a]	PP011069.D	8	02/06/06	MRE	01/30/06	OP15605	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38054-1, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9, F38054-10

CAS No.	Compound	F38019-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND [b]		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-20-3	Naphthalene	473 [b]		507		7	
90-12-0	1-Methylnaphthalene	40.8 [b]		47.5		15	
91-57-6	2-Methylnaphthalene	117 [b]		133		13	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F38019-1	F38019-1	Limits
84-15-1	o-Terphenyl	95%	87%	88%	36-114%
92-94-4	p-Terphenyl	89%	81%	80%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run #2.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38054
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7431/GN19585	2.0	<2.0	mg/l	50	48.9	97.8	90-110%
Nitrogen, Nitrate	GP7431/GN19585	0.10	<0.10	mg/l	2.5	2.43	97.2	90-110%
Nitrogen, Nitrite	GP7431/GN19585	0.10	<0.10	mg/l	2.5	2.25	90.0	90-110%
Sulfate	GP7431/GN19585	2.0	<2.0	mg/l	50	50.8	101.6	90-110%
Total Organic Carbon	GP7441/GN19605	1.0	<1.0	mg/l	15	15.5	103.3	90-110%
Total Organic Carbon	GP7449/GN19635	1.0	<1.0	mg/l	15	15.2	101.3	90-110%

Associated Samples:
Batch GP7431: F38054-1, F38054-10, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7441: F38054-1, F38054-10, F38054-2, F38054-3, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7449: F38054-4, F38054-5

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38054
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7431/GN19615	F38054-2	mg/l	10.8	10.8	0.0	0-20%
Chloride	GP7431/GN19615	F38054-3	mg/l	12.8	12.9	0.8	0-20%
Nitrogen, Nitrate	GP7431/GN19615	F38054-2	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP7431/GN19615	F38054-3	mg/l	<0.10	0.10	22.2(a)	0-20%
Nitrogen, Nitrite	GP7431/GN19615	F38054-2	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7431/GN19615	F38054-3	mg/l	<0.10	<0.10	0.0	0-20%
Sulfate	GP7431/GN19615	F38054-2	mg/l	48.7	48.4	0.6	0-20%
Sulfate	GP7431/GN19615	F38054-3	mg/l	10.8	11.0	1.8	0-20%
Total Organic Carbon	GP7441/GN19605	F38054-1	mg/l	14.8	14.9	0.7	0-20%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	<1.0	1.2	0-20%

Associated Samples:
Batch GP7431: F38054-1, F38054-10, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7441: F38054-1, F38054-10, F38054-2, F38054-3, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7449: F38054-4, F38054-5
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38054
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7431/GN19615	F38054-2	mg/l	10.8	50	54.9(a)	88.2N(a)	90-110%
Chloride	GP7431/GN19615	F38054-3	mg/l	12.8	50	57.1(a)	88.6N(a)	90-110%
Nitrogen, Nitrate	GP7431/GN19615	F38054-2	mg/l	<0.10	2.5	2.4	96.0	90-110%
Nitrogen, Nitrate	GP7431/GN19615	F38054-3	mg/l	<0.10	2.5	2.4	92.8	90-110%
Nitrogen, Nitrite	GP7431/GN19615	F38054-2	mg/l	<0.10	2.5	2.1(a)	84.0N(a)	90-110%
Nitrogen, Nitrite	GP7431/GN19615	F38054-3	mg/l	<0.10	2.5	2.1(a)	84.0N(a)	90-110%
Sulfate	GP7431/GN19615	F38054-2	mg/l	48.7	50	89.1(a)	80.8N(a)	90-110%
Sulfate	GP7431/GN19615	F38054-3	mg/l	10.8	50	50.1(a)	78.6N(a)	90-110%
Total Organic Carbon	GP7441/GN19605	F38054-1	mg/l	14.8	15	28.2	89.3	75-125%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	15	16.0	101.3	75-125%

Associated Samples:
Batch GP7431: F38054-1, F38054-10, F38054-2, F38054-3, F38054-4, F38054-5, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7441: F38054-1, F38054-10, F38054-2, F38054-3, F38054-6, F38054-7, F38054-8, F38054-9
Batch GP7449: F38054-4, F38054-5
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-SE

117407

Accutest Job Number: F38105

Sampling Date: 01/25/06



Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 32

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

1956 - 2006
50
YEARS OF EXCELLENCE
Accutest Laboratories

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

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Sample Summary

Shaw E & I, Inc.

Job No: F38105

Camp Lejeune-SE
Project No: 117407

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F38105-1	01/25/06	12:50	RK	01/26/06	AQ	Ground Water	USTHPFF-MW11
F38105-2	01/25/06	00:00	RK	01/26/06	AQ	Trip Blank Water	TRIP BLANK 012406

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F38105-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF058488.D	2	02/01/06	TD	n/a	n/a	GEF3923
Run #2 [a]	QQ011300.D	5	02/02/06	AB	n/a	n/a	GQQ448

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	53.6	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND [c]	17	17	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	2.2	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	172	2.0	1.0	ug/l	
108-88-3	Toluene	32.6	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	288 [c]	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	101%	71-130%
98-08-8	aaa-Trifluorotoluene	107%	98%	71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.
(c) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F38105-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY021287.D	1	02/02/06	TD	n/a	n/a	GXY804
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.49	0.50	0.30	ug/l	J
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F38105-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP011065.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.2	1.0	ug/l	
120-12-7	Anthracene	ND	2.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.21	0.052	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.21	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.21	0.052	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.21	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.21	0.10	ug/l	
218-01-9	Chrysene	ND	2.1	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.21	0.052	ug/l	
206-44-0	Fluoranthene	ND	2.1	0.52	ug/l	
86-73-7	Fluorene	ND	2.1	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.21	0.052	ug/l	
91-20-3	Naphthalene	ND	2.1	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.1	0.52	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.52	ug/l	
85-01-8	Phenanthrene	ND	2.1	1.0	ug/l	
129-00-0	Pyrene	ND	2.1	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		36-114%
92-94-4	p-Terphenyl	64%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F38105-1	Date Sampled:	01/25/06
Matrix:	AQ - Ground Water	Date Received:	01/26/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	01/26/06 21:05	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	01/26/06 21:05	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	01/26/06 21:05	MP	EPA 300/SW846 9056
Sulfate	161	2.0	mg/l	1	01/26/06 21:05	MP	EPA 300/SW846 9056
Total Organic Carbon	7.7	1.0	mg/l	1	01/31/06 17:35	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK 012406		
Lab Sample ID:	F38105-2	Date Sampled:	01/25/06
Matrix:	AQ - Trip Blank Water	Date Received:	01/26/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF058493.D	1	02/02/06	TD	n/a	n/a	GEF3923
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

(a) No sample available for reanalysis.
(b) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F38105

CHAIN-OF-CUSTODY RECORD

COC Number:
117407-SE-012506

Shaw
Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
117407	Mark Martin	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	1	USTHPFF-MW11	1/25/06	12:50		X	USTHPFF-MW11	11	X	X	X	X	X	X
2	2	Trip Blank 012406	1/25/06	--------		X	Trip Blank	2	X					
	3													
	4													
	5													
	6													
	7													
	8													
	9													
	10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 2		FedEx 8530 7647 8855	1/25/06	18:00	14 Day TAT
2		FX		1/26/06	0900	
3						

2.4

F38105: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F38105 CLIENT: Shaw E&I PROJECT: Camp Lejeune - SE

DATE/TIME RECEIVED: 4/26/05 0900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4

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

AIRBILL NUMBERS: 8530 7647 8855

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? 8

NUMBER OF 5035 FIELD KITS ? 8

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 4/26/05 TECHNICIAN SIGNATURE/DATE

ASBD06/22/05

3.1 3

F38105: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-MB	EF058464.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1, F38105-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	89%	71-130%
98-08-8	aaa-Trifluorotoluene	89%	71-124%

Method Blank Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-MB	QQ011292.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Method Blank Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY804-MB	XY021279.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38105-1

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF3923-BS	EF058463.D	1	02/01/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1, F38105-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	81-121
108-90-7	Chlorobenzene	20	22.1	111	76-120
95-50-1	1,2-Dichlorobenzene	20	21.0	105	63-127
541-73-1	1,3-Dichlorobenzene	20	21.9	110	70-124
106-46-7	1,4-Dichlorobenzene	20	21.7	109	68-121
100-41-4	Ethylbenzene	20	22.2	111	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	73-118
108-88-3	Toluene	20	21.2	106	79-122
1330-20-7	Xylenes (total)	60	64.9	108	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	71-124%

Blank Spike Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ448-BS	QQ011291.D	1	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	20	18.7	94	63-127
1330-20-7	Xylenes (total)	60	57.3	96	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	71-130%
98-08-8	aaa-Trifluorotoluene	102%	71-124%

Blank Spike Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY804-BS	XY021280.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38105-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	106	98	60-135
74-84-0	Ethane	219	199	91	64-141
74-85-1	Ethene	290	267	92	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38146-5MS	EF058496.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5MSD	EF058497.D	1	02/02/06	TD	n/a	n/a	GEF3923
F38146-5 [a]	EF058495.D	1	02/02/06	TD	n/a	n/a	GEF3923

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1, F38105-2

CAS No.	Compound	F38146-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0	U	20	18.9	95	19.4	97	3	74-126/11
108-90-7	Chlorobenzene	1.0	U	20	19.5	98	20.0	100	3	72-124/8
95-50-1	1,2-Dichlorobenzene	1.0	U	20	15.2	76	16.8	84	10	55-136/13
541-73-1	1,3-Dichlorobenzene	1.0	U	20	17.8	89	18.7	94	5	65-132/16
106-46-7	1,4-Dichlorobenzene	1.0	U	20	16.5	83	17.3	87	5	61-133/11
100-41-4	Ethylbenzene	1.0	U	20	19.1	96	19.2	96	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	1.0	U	20	17.1	86	18.1	91	6	63-130/11
108-88-3	Toluene	1.0	U	20	18.6	93	18.9	95	2	69-132/7
1330-20-7	Xylenes (total)	3.0	U	60	56.3	94	57.3	96	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38146-5	Limits
460-00-4	4-Bromofluorobenzene	101%	101%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	102%	96%	71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38054-4MS	QQ011303.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4MSD	QQ011304.D	200	02/02/06	AB	n/a	n/a	GQQ448
F38054-4 [a]	QQ011293.D	200	02/02/06	AB	n/a	n/a	GQQ448

The QC reported here applies to the following samples: Method: EPA 601/602

F38105-1

CAS No.	Compound	F38054-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	346		4000	3830	87	3790	86	1	55-136/13
1330-20-7	Xylenes (total)	3920		12000	15400	96	15200	94	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F38054-4	Limits
460-00-4	4-Bromofluorobenzene	103%	103%	100%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	99%	102%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F38106-4MS	XY021298.D	1	02/02/06	TD	n/a	n/a	GXY804
F38106-4	XY021293.D	1	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38105-1

CAS No.	Compound	F38106-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.34	J	108	95.7	88	30-162
74-84-0	Ethane	ND		219	177	81	54-160
74-85-1	Ethene	ND		290	237	82	53-159

Duplicate Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	F38054-8DUP	XY021284.D	5	02/02/06	TD	n/a	n/a	GXY804
	F38054-8	XY021283.D	5	02/02/06	TD	n/a	n/a	GXY804

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F38105-1

CAS No.	Compound	F38054-8 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1900		1900		0	27
74-84-0	Ethane	5.76		5.86		2	19
74-85-1	Ethene	ND		ND		nc	18

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-MB	PP011058.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38105-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	82%	31-121%

Blank Spike Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-BS	PP011057.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38105-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	14.5	73	60-98
208-96-8	Acenaphthylene	20	16.9	85	57-97
120-12-7	Anthracene	10	6.9	69	68-103
56-55-3	Benzo(a)anthracene	10	8.0	80	68-106
50-32-8	Benzo(a)pyrene	10	8.3	83	70-108
205-99-2	Benzo(b)fluoranthene	10	8.2	82	70-108
191-24-2	Benzo(g,h,i)perylene	10	8.2	82	69-108
207-08-9	Benzo(k)fluoranthene	10	8.2	82	69-109
218-01-9	Chrysene	10	8.2	82	70-106
53-70-3	Dibenzo(a,h)anthracene	10	8.7	87	69-108
206-44-0	Fluoranthene	20	15.0	75	65-104
86-73-7	Fluorene	20	14.6	73	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.3	83	69-108
91-20-3	Naphthalene	20	13.5	68	52-91
90-12-0	1-Methylnaphthalene	20	14.1	71	54-94
91-57-6	2-Methylnaphthalene	20	13.7	69	55-94
85-01-8	Phenanthrene	20	14.8	74	62-102
129-00-0	Pyrene	20	15.9	80	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	74%	36-114%
92-94-4	p-Terphenyl	86%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-MS	PP011060.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
OP15629-MSD	PP011061.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
F38104-1	PP011059.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38105-1

CAS No.	Compound	F38104-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	27.3	71	27.6	72	1	42-119/25
208-96-8	Acenaphthylene	ND		38.5	29.6	77	29.8	77	1	40-121/25
120-12-7	Anthracene	ND		19.2	14.8	77	14.8	77	0	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	14.8	77	15.0	78	1	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	15.1	79	15.2	79	1	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	15.0	78	15.3	80	2	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	14.6	76	14.9	77	2	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	14.9	77	15.2	79	2	66-111/15
218-01-9	Chrysene	ND		19.2	15.0	78	15.2	79	1	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	15.7	82	16.1	84	3	66-111/14
206-44-0	Fluoranthene	ND		38.5	30.3	79	30.6	80	1	64-107/16
86-73-7	Fluorene	ND		38.5	28.6	74	28.8	75	1	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	15.0	78	15.3	80	2	65-112/15
91-20-3	Naphthalene	ND		38.5	26.1	68	26.3	68	1	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	26.2	68	26.5	69	1	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	25.7	67	25.9	67	1	43-106/25
85-01-8	Phenanthrene	ND		38.5	31.6	82	31.8	83	1	59-105/20
129-00-0	Pyrene	ND		38.5	32.3	84	32.3	84	0	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F38104-1	Limits
84-15-1	o-Terphenyl	73%	74%	74%	36-114%
92-94-4	p-Terphenyl	77%	77%	71%	31-121%

Duplicate Summary

Job Number: F38105
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15629-DUP	PP011063.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387
F38104-2	PP011062.D	1	02/06/06	MRE	02/01/06	OP15629	GPP387

The QC reported here applies to the following samples: Method: EPA 610

F38105-1

CAS No.	Compound	F38104-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-20-3	Naphthalene	ND		ND		nc	
90-12-0	1-Methylnaphthalene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	ND		ND		nc	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F38104-2	Limits
84-15-1	o-Terphenyl	80%	80%	36-114%
92-94-4	p-Terphenyl	84%	83%	31-121%

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38105
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP7433/GN19615	2.0	<2.0	mg/l	50	49.3	98.6	90-110%
Fluoride	GP7433/GN19616	0.20	<0.20	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrate	GP7433/GN19615	0.10	<0.10	mg/l	2.5	2.55	102.0	90-110%
Nitrogen, Nitrite	GP7433/GN19615	0.10	<0.10	mg/l	2.5	2.30	92.0	90-110%
Sulfate	GP7433/GN19615	2.0	<2.0	mg/l	50	48.8	97.6	90-110%
Total Organic Carbon	GP7449/GN19635	1.0	<1.0	mg/l	15	15.2	101.3	90-110%

Associated Samples:
Batch GP7433: F38105-1
Batch GP7449: F38105-1

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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38105
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP7433/GN19615	F38087-1	mg/l	5.0	9.0	0.0	0-20%
Chloride	GP7433/GN19615	F38087-1	mg/l	9.0	9.0	0.0	0-20%
Chloride	GP7433/GN19646	F38106-4	mg/l	477	458	0.0	0-20%
Chloride	GP7433/GN19646	F38106-4	mg/l	458	458	0.0	0-20%
Fluoride	GP7433/GN19615	F38106-4	mg/l	0.22	0.20	9.5	0-20%
Fluoride	GP7433/GN19615	F38106-4	mg/l	1.0 U	0.20	9.5	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.25	0.32	0.0	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.32	0.32	0.0	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.4	2.5	4.1	0-20%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.5	2.5	4.1	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.50 U	<0.10	0.0	0-20%
Sulfate	GP7433/GN19615	F38087-1	mg/l	2.9	9.0	0.0	0-20%
Sulfate	GP7433/GN19615	F38087-1	mg/l	9.0	9.0	0.0	0-20%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1600	1500	0.7	0-20%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1510	1500	0.7	0-20%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	<1.0	1.2	0-20%

Associated Samples:
Batch GP7433: F38105-1
Batch GP7449: F38105-1

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F38105
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP7433/GN19615	F38087-1	mg/l	5.0	50	54.4	90.8	90-110%
Chloride	GP7433/GN19615	F38087-1	mg/l	9.0	50	54.4	90.8	90-110%
Chloride	GP7433/GN19646	F38106-4	mg/l	477	50	437(a)	-42.0(b)	90-110%
Chloride	GP7433/GN19646	F38106-4	mg/l	458	50	437(a)	-42.0(b)	90-110%
Fluoride	GP7433/GN19615	F38106-4	mg/l	0.22	2.5	2.7	99.2	90-110%
Fluoride	GP7433/GN19615	F38106-4	mg/l	1.0 U	2.5	2.7	99.2	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.25	2.5	2.8	99.2	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38087-1	mg/l	0.32	2.5	2.8	99.2	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.4	2.5	4.6(a)	88.0N(a)	90-110%
Nitrogen, Nitrate	GP7433/GN19615	F38106-4	mg/l	2.5	2.5	4.6(a)	88.0N(a)	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38087-1	mg/l	0.050 U	2.5	2.4	96.0	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.050 U	2.5	3.6(a)	144.0N(a)	90-110%
Nitrogen, Nitrite	GP7433/GN19615	F38106-4	mg/l	0.50 U	2.5	3.6(a)	144.0N(a)	90-110%
Sulfate	GP7433/GN19615	F38087-1	mg/l	2.9	50	49.8(a)	81.6N(a)	90-110%
Sulfate	GP7433/GN19615	F38087-1	mg/l	9.0	50	49.8(a)	81.6N(a)	90-110%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1600	50	1310(a)	-400.0(b)	90-110%
Sulfate	GP7433/GN19646	F38106-4	mg/l	1510	50	1310(a)	-400.0(b)	90-110%
Total Organic Carbon	GP7449/GN19635	F38103-1	mg/l	0.81 B	15	16.0	101.3	75-125%

Associated Samples:
Batch GP7433: F38105-1
Batch GP7449: F38105-1
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/16/06

Technical Report for

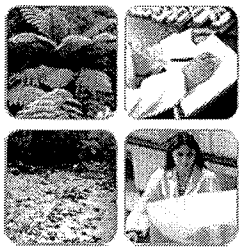
Shaw E & I, Inc.

Camp Lejeune-SE

119909

Accutest Job Number: F44244

Sampling Date: 10/04/06



Report to:

Shaw E & I, Inc.

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ATTN: Natasha Sullivan

Total number of pages in report: 48

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

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Sample Summary

Shaw E & I, Inc.

Job No: F44244

Camp Lejeune-SE
Project No: 119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44244-1	10/04/06	10:00	MM	10/05/06	AQ	Ground Water	USTHPFFC-MW01
F44244-2	10/04/06	10:30	MM	10/05/06	AQ	Ground Water	USTHPFFC-MW07
F44244-3	10/04/06	11:00	MM	10/05/06	AQ	Ground Water	USTHPFFC-MW20
F44244-4	10/04/06	12:00	MM	10/05/06	AQ	Ground Water	USTHPFF-MW10R
F44244-5	10/04/06	00:00	MM	10/05/06	AQ	Trip Blank Water	TRIP BLANK 100406

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F44244-1	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019275.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	26.3	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	4.8	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	6.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	4.0	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F44244-1	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023646.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	15.2	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F44244-1	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043473.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	83%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F44244-1	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/06/06 03:31	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/06/06 03:31	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/06/06 03:31	MP	EPA 300/SW846 9056
Sulfate	71.6	2.0	mg/l	1	10/06/06 03:31	MP	EPA 300/SW846 9056
Total Organic Carbon	3.6	1.0	mg/l	1	10/06/06 16:57	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F44244-2	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019276.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.7	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	2.1	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.66	1.0	0.50	ug/l	J
108-88-3	Toluene	1.8	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.2	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F44244-2	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023651.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	46.9	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F44244-2	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043474.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		36-114%
92-94-4	p-Terphenyl	86%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW07		
Lab Sample ID:	F44244-2	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/06/06 04:24	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/06/06 04:24	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/06/06 04:24	MP	EPA 300/SW846 9056
Sulfate	75.6	2.0	mg/l	1	10/06/06 04:24	MP	EPA 300/SW846 9056
Total Organic Carbon	1.9	1.0	mg/l	1	10/06/06 17:12	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F44244-3	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019295.D	20	10/16/06	AF	n/a	n/a	GQQ744
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	453	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	22.3	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	265	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	130	20	10	ug/l	
1330-20-7	Xylenes (total)	712	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F44244-3	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023660.D	5	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2130	2.5	1.5	ug/l	
74-84-0	Ethane	ND	5.0	3.0	ug/l	
74-85-1	Ethene	ND	5.0	4.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F44244-3	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043475.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	53.8	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	8.3	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	26.5	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	83%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F44244-3	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	1.0	0.10	mg/l	1	10/06/06 04:41	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	1.0	0.20	mg/l	1	10/06/06 04:41	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/06/06 04:41	MP	EPA 300/SW846 9056
Sulfate	17.6	2.0	mg/l	1	10/06/06 04:41	MP	EPA 300/SW846 9056
Total Organic Carbon	6.0	1.0	mg/l	1	10/06/06 17:58	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F44244-4	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019264.D	50	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1280	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	109	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	650	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
108-88-3	Toluene	1990	50	25	ug/l	
1330-20-7	Xylenes (total)	2900	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 07:51 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F44244-4	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023653.D	1	10/10/06	TD	n/a	n/a	GXY915
Run #2	XY023661.D	5	10/13/06	TD	n/a	n/a	GXY916

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	29200 [a]	2.5	1.5	ug/l	
74-84-0	Ethane	6.88	1.0	0.60	ug/l	
74-85-1	Ethene	1.0	1.0	0.80	ug/l	

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F44244-4	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043476.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
Run #2 [a]	PP015803.D	4	10/12/06	MRE	10/06/06	OP18083	GPP564

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	15	15	ug/l	
208-96-8	Acenaphthylene	ND [b]	15	3.8	ug/l	
120-12-7	Anthracene	ND [b]	7.7	3.8	ug/l	
56-55-3	Benzo(a)anthracene	0.64	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.32	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	0.22	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.15	0.19	0.096	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.13	0.19	0.096	ug/l	J
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	4.4 [b]	7.7	1.9	ug/l	J
86-73-7	Fluorene	ND [b]	7.7	3.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.17	0.19	0.048	ug/l	J
91-20-3	Naphthalene	132 [b]	7.7	3.8	ug/l	
90-12-0	1-Methylnaphthalene	52.7 [b]	7.7	1.9	ug/l	
91-57-6	2-Methylnaphthalene	170 [b]	7.7	1.9	ug/l	
85-01-8	Phenanthrene	ND [b]	7.7	7.7	ug/l	
129-00-0	Pyrene	2.4 [b]	7.7	1.9	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%	70%	36-114%
92-94-4	p-Terphenyl	83%	84%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 07:51 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFF-MW10R		
Lab Sample ID:	F44244-4	**Date Sampled:**	10/04/06
Matrix:	AQ - Ground Water	**Date Received:**	10/05/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/06/06 04:59	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/06/06 04:59	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/06/06 04:59	MP	EPA 300/SW846 9056
Sulfate	6.1	2.0	mg/l	1	10/06/06 04:59	MP	EPA 300/SW846 9056
Total Organic Carbon	62.1	3.0	mg/l	3	10/07/06 12:51	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK 100406		
Lab Sample ID:	F44244-5	**Date Sampled:**	10/04/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/05/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ019277.D	1	10/14/06	AF	n/a	n/a	GQQ743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F44244

COC Number:
119909-NW-100406

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	USTHPFFC-MW01	10/4/06	10:00		X	USTHPFFC-MW01	11	X	X	X	X	X	X
2	USTHPFFC-MW07	10/4/06	10:30		X	USTHPFFC-MW07	11	X	X	X	X	X	X
3	USTHPFFC-MW20	10/4/06	11:00		X	USTHPFFC-MW20	11	X	X	X	X	X	X
4	USTHPFF-MW10R	10/4/06	12:00		X	USTHPFF-MW10R	11	X	X	X	X	X	X
5	Trip Blank 100406	10/4/06			X	Trip Blank 100406	2	X					
6													
7													
8													
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 5		FedEx 8574 8740 2604	10/4/06	16:00	14 Day TAT
2			Jorge Corral	10-5-06	9:00	
3						

1.4

3.1 3

F44244: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44244 CLIENT: Shaw PROJECT: Camp lejeune -SE

DATE/TIME RECEIVED: 10-5-06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.4

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8574 8740 2604

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: Received only two vials for MEE analysis, for sample #1. m.m 10/5/06

TECHNICIAN SIGNATURE/DATE JMC 10-5-06 TECHNICIAN SIGNATURE/DATE

ASBD 10/03/06

F44244: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-MB	QQ019261.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44244-1, F44244-2, F44244-4, F44244-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-MB	QQ019289.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44244-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY915-MB	XY023628.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-1, F44244-2, F44244-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-MB	XY023658.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-3, F44244-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ743-BS	QQ019254.D	1	10/13/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: Method: EPA 601/602

F44244-1, F44244-2, F44244-4, F44244-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	81-121
108-90-7	Chlorobenzene	20	20.0	100	76-120
95-50-1	1,2-Dichlorobenzene	20	19.1	96	63-127
541-73-1	1,3-Dichlorobenzene	20	20.1	101	70-124
106-46-7	1,4-Dichlorobenzene	20	20.7	104	68-121
100-41-4	Ethylbenzene	20	20.7	104	79-124
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	73-118
108-88-3	Toluene	20	21.5	108	79-122
1330-20-7	Xylenes (total)	60	62.5	104	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	71-124%

Blank Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-BS	QQ019288.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44244-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.8	104	81-121
108-90-7	Chlorobenzene	20	20.6	103	76-120
95-50-1	1,2-Dichlorobenzene	20	19.8	99	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	21.4	107	68-121
100-41-4	Ethylbenzene	20	21.2	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.8	94	73-118
108-88-3	Toluene	20	20.9	105	79-122
1330-20-7	Xylenes (total)	60	63.6	106	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	71-124%

Blank Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY915-BS	XY023629.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-1, F44244-2, F44244-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	137	127	60-135
74-84-0	Ethane	219	277	126	64-141
74-85-1	Ethene	290	362	125	63-139

Blank Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-BS	XY023659.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-3, F44244-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	98.8	91	60-135
74-84-0	Ethane	219	203	93	64-141
74-85-1	Ethene	290	266	92	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44150-8MS	QQ019282.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8MSD	QQ019283.D	1	10/14/06	AF	n/a	n/a	GQQ743
F44150-8 [a]	QQ019271.D	1	10/14/06	AF	n/a	n/a	GQQ743

The QC reported here applies to the following samples: **Method:** EPA 601/602

F44244-1, F44244-2, F44244-4, F44244-5

CAS No.	Compound	F44150-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	98.3		20	119	104	120	109	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.7	99	19.8	99	1	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	18.9	95	18.6	93	2	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.8	99	19.7	99	1	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	20.3	102	20.2	101	0	61-133/11
100-41-4	Ethylbenzene	6.3		20	26.5	101	26.6	102	0	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.0	90	18.3	92	2	63-130/11
108-88-3	Toluene	18.1		20	38.0	100	38.3	101	1	69-132/7
1330-20-7	Xylenes (total)	12.9		60	72.8	100	73.0	100	0	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44150-8	Limits
460-00-4	4-Bromofluorobenzene	105%	110%	102%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	99%	93%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-2MS	QQ019312.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2MSD	QQ019313.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2 [a]	QQ019307.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44244-3

CAS No.	Compound	F44334-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.1		20	23.6	98	23.3	96	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.6	98	19.3	97	2	72-124/8
95-50-1	1,2-Dichlorobenzene	21.6		20	22.9	6*	22.7	5*	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	20.5	103	20.1	101	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	21.3	107	20.9	105	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.3	102	19.9	100	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	93.2		20	113	99	110	84	3	63-130/11
108-88-3	Toluene	0.87	J	20	21.6	104	21.1	101	2	69-132/7
1330-20-7	Xylenes (total)	38.9		60	97.8	98	96.0	95	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44334-2	Limits
460-00-4	4-Bromofluorobenzene	110%	114%		71-130%
98-08-8	aaa-Trifluorotoluene	92%	96%		71-124%

(a) Confirmation run.

Matrix Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44244-1MS	XY023648.D	1	10/10/06	TD	n/a	n/a	GXY915
F44244-1	XY023646.D	1	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-1, F44244-2, F44244-4

CAS No.	Compound	F44244-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	15.2		108	120	97	30-162
74-84-0	Ethane	ND		219	218	100	54-160
74-85-1	Ethene	ND		290	285	98	53-159

Matrix Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-1MS	XY023686.D	1	10/13/06	TD	n/a	n/a	GXY916
F44334-1	XY023672.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-3, F44244-4

CAS No.	Compound	F44334-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	3.51		108	108	97	30-162
74-84-0	Ethane	ND		219	221	101	54-160
74-85-1	Ethene	ND		290	289	100	53-159

Duplicate Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44243-15DUP	XY023647.D	5	10/10/06	TD	n/a	n/a	GXY915
F44243-15	XY023636.D	2	10/10/06	TD	n/a	n/a	GXY915
F44243-15	XY023645.D	5	10/10/06	TD	n/a	n/a	GXY915

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-1, F44244-2, F44244-4

CAS No.	Compound	F44243-15 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	2530 [a]		2620		3	27
74-84-0	Ethane	2.0 U		ND		nc	19
74-85-1	Ethene	2.0 U		ND		nc	18

(a) Result is from Run #2.

Duplicate Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44362-1DUP	XY023682.D	5	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023674.D	1	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023681.D	5	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44244-3, F44244-4

CAS No.	Compound	F44362-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1370 [a]		1400		2	27
74-84-0	Ethane	3.08		2.1		37*	19
74-85-1	Ethene	4.02		3.82		5	18

(a) Result is from Run #2.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	EE043450.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44244-1, F44244-2, F44244-3, F44244-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Method Blank Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MB	PP015802.D	1	10/12/06	MRE	10/06/06	OP18083	GPP564

The QC reported here applies to the following samples: Method: EPA 610

F44244-1, F44244-2, F44244-3, F44244-4

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	36-114%
92-94-4	p-Terphenyl	90%	31-121%

Blank Spike Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-BS	EE043449.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44244-1, F44244-2, F44244-3, F44244-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	16.5	83	60-98
208-96-8	Acenaphthylene	20	17.6	88	57-97
120-12-7	Anthracene	10	8.3	83	68-103
56-55-3	Benzo(a)anthracene	10	9.1	91	68-106
50-32-8	Benzo(a)pyrene	10	9.1	91	70-108
205-99-2	Benzo(b)fluoranthene	10	9.3	93	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.2	92	69-108
207-08-9	Benzo(k)fluoranthene	10	9.1	91	69-109
218-01-9	Chrysene	10	9.3	93	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.4	94	69-108
206-44-0	Fluoranthene	20	18.4	92	65-104
86-73-7	Fluorene	20	17.1	86	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.1	91	69-108
91-20-3	Naphthalene	20	14.8	74	52-91
90-12-0	1-Methylnaphthalene	20	15.3	77	54-94
91-57-6	2-Methylnaphthalene	20	14.9	75	55-94
85-01-8	Phenanthrene	20	17.9	90	62-102
129-00-0	Pyrene	20	18.1	91	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	88%	36-114%
92-94-4	p-Terphenyl	93%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44244
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18083-MS	EE043463.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
OP18083-MSD	EE043464.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647
F44150-7 [a]	EE043462.D	1	10/11/06	MRE	10/06/06	OP18083	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44244-1, F44244-2, F44244-3, F44244-4

CAS No.	Compound	F44150-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		38.5	32.5	84	35.0	91	7	42-119/25
208-96-8	Acenaphthylene	ND		38.5	35.0	91	37.4	97	7	40-121/25
120-12-7	Anthracene	ND		19.2	16.4	85	17.7	92	8	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.2	17.4	90	18.5	96	6	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.2	17.4	90	18.3	95	5	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.2	17.9	93	18.9	98	5	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.2	17.6	92	18.7	97	6	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.2	17.4	90	18.4	96	6	66-111/15
218-01-9	Chrysene	ND		19.2	17.8	93	18.8	98	5	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.2	17.8	93	18.8	98	5	66-111/14
206-44-0	Fluoranthene	ND		38.5	35.7	93	38.0	99	6	64-107/16
86-73-7	Fluorene	ND		38.5	33.2	86	35.9	93	8	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.2	17.2	89	18.3	95	6	65-112/15
91-20-3	Naphthalene	1.0	J	38.5	29.9	75	31.4	79	5	41-102/24
90-12-0	1-Methylnaphthalene	ND		38.5	30.7	80	32.6	85	6	41-109/25
91-57-6	2-Methylnaphthalene	ND		38.5	29.9	78	31.7	82	6	43-106/25
85-01-8	Phenanthrene	ND		38.5	34.8	90	37.5	97	7	59-105/20
129-00-0	Pyrene	ND		38.5	35.1	91	37.3	97	6	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F44150-7	Limits
84-15-1	o-Terphenyl	87%	92%	87%	36-114%
92-94-4	p-Terphenyl	90%	95%	90%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44244
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8460/GN22477	2.0	<2.0	mg/l	50	46.9	93.8	90-110%
Chloride	GP8461/GN22477	2.0	<2.0	mg/l	50	47.0	94.0	90-110%
Nitrogen, Nitrate	GP8460/GN22477	0.10	<0.10	mg/l	2.5	2.29	91.6	90-110%
Nitrogen, Nitrate	GP8461/GN22477	0.10	<0.10	mg/l	2.5	2.32	92.8	90-110%
Nitrogen, Nitrite	GP8460/GN22477	0.10	<0.10	mg/l	2.5	2.27	90.8	90-110%
Nitrogen, Nitrite	GP8461/GN22477	0.10	<0.10	mg/l	2.5	2.33	93.2	90-110%
Sulfate	GP8460/GN22477	2.0	<2.0	mg/l	50	45.8	91.6	90-110%
Sulfate	GP8461/GN22477	2.0	<2.0	mg/l	50	45.2	90.4	90-110%
Total Organic Carbon	GP8463/GN22442	1.0	<1.0	mg/l	15	13.8	92.0	90-110%

Associated Samples:
Batch GP8460: F44244-2, F44244-3, F44244-4
Batch GP8461: F44244-1
Batch GP8463: F44244-1, F44244-2, F44244-3, F44244-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44244
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8460/GN22477	F44193-1	mg/l	6.6	6.3	4.7	0-20%
Chloride	GP8460/GN22477	F44193-2	mg/l	6.2	6.2	0.0	0-20%
Chloride	GP8461/GN22477	F44238-1	mg/l	6.8	6.5	4.5	0-20%
Chloride	GP8461/GN22477	F44238-2	mg/l	6.0	6.1	1.7	0-20%
Nitrogen, Nitrate	GP8460/GN22477	F44193-1	mg/l	1.0	1.0	0.0	0-20%
Nitrogen, Nitrate	GP8460/GN22477	F44193-2	mg/l	0.46	0.47	2.2	0-20%
Nitrogen, Nitrate	GP8461/GN22477	F44238-1	mg/l	0.26	0.25	3.9	0-20%
Nitrogen, Nitrate	GP8461/GN22477	F44238-2	mg/l	1.8	1.8	0.0	0-20%
Nitrogen, Nitrite	GP8460/GN22477	F44193-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8460/GN22477	F44193-2	mg/l	0.10	<0.10	35.3(a)	0-20%
Nitrogen, Nitrite	GP8461/GN22477	F44238-1	mg/l	0.15	0.12	22.2(a)	0-20%
Nitrogen, Nitrite	GP8461/GN22477	F44238-2	mg/l	0.050 U	<0.10	200.0(a)	0-20%
Sulfate	GP8460/GN22477	F44193-1	mg/l	12.7	9.7	26.8*(b)	0-20%
Sulfate	GP8460/GN22477	F44193-2	mg/l	18.1	18.1	0.0	0-20%
Sulfate	GP8461/GN22477	F44238-1	mg/l	16.6	16.6	0.0	0-20%
Sulfate	GP8461/GN22477	F44238-2	mg/l	6.6	6.8	3.0	0-20%
Total Organic Carbon	GP8463/GN22442	F44243-15	mg/l	12.4	12.4	0.0	0-20%

Associated Samples:
Batch GP8460: F44244-2, F44244-3, F44244-4
Batch GP8461: F44244-1
Batch GP8463: F44244-1, F44244-2, F44244-3, F44244-4
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.
(b) High RPD due to possible nonhomogeniety between sample bottles.

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44244
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8460/GN22477	F44193-1	mg/l	6.6	50	49.8	86.4N(a)	90-110%
Chloride	GP8460/GN22477	F44193-2	mg/l	6.2	50	48.6	84.8N(a)	90-110%
Chloride	GP8461/GN22477	F44238-1	mg/l	6.8	50	47.9	82.2N(a)	90-110%
Chloride	GP8461/GN22477	F44238-2	mg/l	6.0	50	47.5	83.0N(a)	90-110%
Nitrogen, Nitrate	GP8460/GN22477	F44193-1	mg/l	1.0	2.5	3.3	92.0	90-110%
Nitrogen, Nitrate	GP8460/GN22477	F44193-2	mg/l	0.46	2.5	2.7	89.6N(a)	90-110%
Nitrogen, Nitrate	GP8461/GN22477	F44238-1	mg/l	0.26	2.5	4.6	173.6N(a)	90-110%
Nitrogen, Nitrate	GP8461/GN22477	F44238-2	mg/l	1.8	2.5	2.5	28.0N(a)	90-110%
Nitrogen, Nitrite	GP8460/GN22477	F44193-1	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP8460/GN22477	F44193-2	mg/l	0.10	2.5	2.3	88.0N(a)	90-110%
Nitrogen, Nitrite	GP8461/GN22477	F44238-1	mg/l	0.15	2.5	2.2	82.0N(a)	90-110%
Nitrogen, Nitrite	GP8461/GN22477	F44238-2	mg/l	0.050 U	2.5	4.8	192.0N(a)	90-110%
Sulfate	GP8460/GN22477	F44193-1	mg/l	12.7	50	41.2	57.0N(a)	90-110%
Sulfate	GP8460/GN22477	F44193-2	mg/l	18.1	50	40.7	45.2N(a)	90-110%
Sulfate	GP8461/GN22477	F44238-1	mg/l	16.6	50	37.6	42.0N(a)	90-110%
Sulfate	GP8461/GN22477	F44238-2	mg/l	6.6	50	61.8	110.4N(a)	90-110%
Total Organic Carbon	GP8463/GN22442	F44243-15	mg/l	12.4	15	24.5	80.7	75-125%

Associated Samples:
Batch GP8460: F44244-2, F44244-3, F44244-4
Batch GP8461: F44244-1
Batch GP8463: F44244-1, F44244-2, F44244-3, F44244-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/16/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-SE

119909

Accutest Job Number: F44300

Sampling Date: 10/06/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 57

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F44300

Camp Lejeune-SE
Project No: 119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44300-1	10/06/06	08:30	MM	10/07/06	AQ	Ground Water	USTHPFF-MW17
F44300-2	10/06/06	09:15	MM	10/07/06	AQ	Ground Water	USTHPFF-MW01
F44300-3	10/06/06	10:00	MM	10/07/06	AQ	Ground Water	USTHPFF-MW18
F44300-4	10/06/06	10:45	MM	10/07/06	AQ	Ground Water	USTHPFFC-MW08
F44300-5	10/06/06	11:30	MM	10/07/06	AQ	Ground Water	USTHPFFC-MW09
F44300-6	10/06/06	12:00	MM	10/07/06	AQ	Ground Water	USTHPFFC-MW05
F44300-7	10/06/06	13:00	MM	10/07/06	AQ	Ground Water	USTHPFFC-MW19
F44300-8	10/06/06	00:00	MM	10/07/06	AQ	Trip Blank Water	TRIP BLANK 100606

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	USTHPFF-MW17		
Lab Sample ID:	F44300-1	Date Sampled:	10/06/06
Matrix:	AQ - Ground Water	Date Received:	10/07/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019333.D	50	10/17/06	AF	n/a	n/a	GQQ745
Run #2 [a]	QQ019354.D	250	10/18/06	AF	n/a	n/a	GQQ746

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4480	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	160	160	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	2240	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	268	50	25	ug/l	
108-88-3	Toluene	16400 [c]	250	130	ug/l	
1330-20-7	Xylenes (total)	8280	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	111%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	96%	71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.
(c) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW17		
Lab Sample ID:	F44300-1	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023662.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	153	0.50	0.30	ug/l	
74-84-0	Ethane	11.5	1.0	0.60	ug/l	
74-85-1	Ethene	6.66	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFF-MW17		
Lab Sample ID:	F44300-1	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 610 SW846 3510C	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043432.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2 [a]	EE043446.D	5	10/11/06	MRE	10/10/06	OP18115	GEE1647

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	19	4.8	ug/l	
208-96-8	Acenaphthylene	ND [b]	19	4.8	ug/l	
120-12-7	Anthracene	ND [b]	9.6	4.8	ug/l	
56-55-3	Benzo(a)anthracene	0.42	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.23	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	0.21	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.098	0.19	0.096	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.097	0.19	0.096	ug/l	J
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND [b]	9.6	2.4	ug/l	
86-73-7	Fluorene	ND [b]	9.6	4.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.098	0.19	0.048	ug/l	J
91-20-3	Naphthalene	372 [b]	9.6	4.8	ug/l	
90-12-0	1-Methylnaphthalene	80.0 [b]	9.6	2.4	ug/l	
91-57-6	2-Methylnaphthalene	227 [b]	9.6	2.4	ug/l	
85-01-8	Phenanthrene	ND [b]	9.6	4.8	ug/l	
129-00-0	Pyrene	ND [b]	9.6	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%	84%	36-114%
92-94-4	p-Terphenyl	88%	89%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFF-MW17		
Lab Sample ID:	F44300-1	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/07/06 12:22	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/07/06 12:22	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/07/06 12:22	MP	EPA 300/SW846 9056
Sulfate	6.9	2.0	mg/l	1	10/07/06 12:22	MP	EPA 300/SW846 9056
Total Organic Carbon	58.0	2.0	mg/l	2	10/13/06 12:16	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F44300-2	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019302.D	20	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019325.D	200	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2790 [b]	200	100	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	600	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	1980 [b]	200	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	15000 [b]	200	100	ug/l	
1330-20-7	Xylenes (total)	9330 [b]	600	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	105%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	91%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F44300-2	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023663.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	397	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F44300-2	Date Sampled:	10/06/06
Matrix:	AQ - Ground Water	Date Received:	10/07/06
Method:	EPA 610 SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043433.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2 [a]	EE043447.D	5	10/11/06	MRE	10/10/06	OP18115	GEE1647

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND [b]	19	4.9	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	364 [b]	9.7	4.9	ug/l	
90-12-0	1-Methylnaphthalene	57.8 [b]	9.7	2.4	ug/l	
91-57-6	2-Methylnaphthalene	203 [b]	9.7	2.4	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%	105%	36-114%
92-94-4	p-Terphenyl	90%	89%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW01		
Lab Sample ID:	F44300-2	Date Sampled:	10/06/06
Matrix:	AQ - Ground Water	Date Received:	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/07/06 12:39	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/07/06 12:39	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/07/06 12:39	MP	EPA 300/SW846 9056
Sulfate	8.2	2.0	mg/l	1	10/07/06 12:39	MP	EPA 300/SW846 9056
Total Organic Carbon	10	1.0	mg/l	1	10/11/06 14:08	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F44300-3	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019314.D	50	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019324.D	500	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10300 [b]	500	250	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	578	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
100-41-4	Ethylbenzene	1090	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
108-88-3	Toluene	20400 [b]	500	250	ug/l	
1330-20-7	Xylenes (total)	6840	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	104%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	91%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F44300-3	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023664.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	20.6	0.50	0.30	ug/l	
74-84-0	Ethane	10.3	1.0	0.60	ug/l	
74-85-1	Ethene	11.3	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F44300-3	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 610 SW846 3510C	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE043434.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2 [a]	EE043448.D	8	10/11/06	MRE	10/10/06	OP18115	GEE1647

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND [b]	31	7.7	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	465 [b]	15	7.7	ug/l	
90-12-0	1-Methylnaphthalene	50.8 [b]	15	3.8	ug/l	
91-57-6	2-Methylnaphthalene	202 [b]	15	3.8	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%	102%	36-114%
92-94-4	p-Terphenyl	90%	89%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFF-MW18		
Lab Sample ID:	F44300-3	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/07/06 12:57	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/07/06 12:57	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/07/06 12:57	MP	EPA 300/SW846 9056
Sulfate	49.6	2.0	mg/l	1	10/07/06 12:57	MP	EPA 300/SW846 9056
Total Organic Carbon	67.3	3.0	mg/l	3	10/13/06 12:33	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F44300-4	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019303.D	10	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019332.D	50	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4940 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	303 [b]	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
108-88-3	Toluene	765 [b]	50	25	ug/l	
1330-20-7	Xylenes (total)	695 [b]	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	106%	71-130%
98-08-8	aaa-Trifluorotoluene	97%	94%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F44300-4	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023665.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	139	0.50	0.30	ug/l	
74-84-0	Ethane	22.1	1.0	0.60	ug/l	
74-85-1	Ethene	13.0	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F44300-4	Date Sampled:	10/06/06
Matrix:	AQ - Ground Water	Date Received:	10/07/06
Method:	EPA 610 SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043435.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	95.7	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	12.6	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	20.2	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		36-114%
92-94-4	p-Terphenyl	91%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW08		
Lab Sample ID:	F44300-4	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/07/06 13:15	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/07/06 13:15	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/07/06 13:15	MP	EPA 300/SW846 9056
Sulfate	7.8	2.0	mg/l	1	10/07/06 13:15	MP	EPA 300/SW846 9056
Total Organic Carbon	80.8	5.0	mg/l	5	10/13/06 12:49	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F44300-5	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019309.D	1	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019327.D	10	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	323 [b]	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	101 [b]	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	56.2 [b]	10	5.0	ug/l	
108-88-3	Toluene	849 [b]	10	5.0	ug/l	
1330-20-7	Xylenes (total)	416 [b]	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	121%	108%	71-130%
98-08-8	aaa-Trifluorotoluene	95%	93%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F44300-5	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023666.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2.98	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F44300-5	Date Sampled:	10/06/06
Matrix:	AQ - Ground Water	Date Received:	10/07/06
Method:	EPA 610 SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043436.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	17.4	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		36-114%
92-94-4	p-Terphenyl	96%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW09		
Lab Sample ID:	F44300-5	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	10/07/06 13:32	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	10/07/06 13:32	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	10/07/06 13:32	MP	EPA 300/SW846 9056
Sulfate	1300	20	mg/l	10	10/13/06 04:06	MP	EPA 300/SW846 9056
Total Organic Carbon	11.4	1.0	mg/l	1	10/11/06 15:13	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F44300-6	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019304.D	1	10/16/06	AF	n/a	n/a	GQQ744
Run #2 [a]	QQ019328.D	10	10/17/06	AF	n/a	n/a	GQQ745

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	156 [b]	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	50.4 [b]	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.3	1.0	0.50	ug/l	
108-88-3	Toluene	485 [b]	10	5.0	ug/l	
1330-20-7	Xylenes (total)	217 [b]	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%	106%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	93%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F44300-6	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023669.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	105	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F44300-6	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 610 SW846 3510C	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE043439.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	10	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		36-114%
92-94-4	p-Terphenyl	67%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW05		
Lab Sample ID:	F44300-6	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
		Percent Solids:	n/a
Project:	Camp Lejeune-SE		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.19	0.10	mg/l	1	10/07/06 13:50	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	<0.20	0.20	mg/l	1	10/07/06 13:50	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/07/06 13:50	MP	EPA 300/SW846 9056
Sulfate	54.6	2.0	mg/l	1	10/07/06 13:50	MP	EPA 300/SW846 9056
Total Organic Carbon	3.7	1.0	mg/l	1	10/11/06 15:58	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F44300-7	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019329.D	20	10/17/06	AF	n/a	n/a	GQQ745
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1110	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	92.8	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	975	20	10	ug/l	
1330-20-7	Xylenes (total)	615	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	USTHPFFC-MW19		
Lab Sample ID:	F44300-7	**Date Sampled:**	10/06/06
Matrix:	AQ - Ground Water	**Date Received:**	10/07/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY023670.D	1	10/13/06	TD	n/a	n/a	GXY916
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	5.11	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@56515 09:35 16-Nov-2006

Report of Analysis

Client Sample ID:	TRIP BLANK 100606		
Lab Sample ID:	F44300-8	**Date Sampled:**	10/06/06
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/07/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ019322.D	1	10/17/06	AF	n/a	n/a	GQQ745
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
119909-NW-100606

F44300

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1								
1	USTHPFF-MW17	10/6/06	8:30		X	USTHPFF-MW17	11	X	X	X	X	X	X								
2	USTHPFF-MW01	10/6/06	9:15		X	USTHPFF-MW01	11	X	X	X	X	X	X								
3	USTHPFF-MW18	10/6/06	10:00		X	USTHPFF-MW18	11	X	X	X	X	X	X								
4	USTHPFFC-MW08	10/6/06	10:45		X	USTHPFFC-MW08	11	X	X	X	X	X	X								
5	USTHPFFC-MW09	10/6/06	11:30		X	USTHPFFC-MW09	11	X	X	X	X	X	X								
6	USTHPFFC-MW05	10/6/06	12:00		X	USTHPFFC-MW05	11	X	X	X	X	X	X								
7	USTHPFFC-MW19	10/6/06	13:00		X	USTHPFFC-MW19	6	X		X	X	X									
8	Trip Blank 100606	10/4/06			X	Trip Blank 100606	2	X													
9																					
10																					

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 8		FedEx 8574 8740 2497, 8574 8740 2637	10/6/06	16:00
2				10/7/06	9:20
3					

Remarks

14 Day TAT

USTHPFFC-MW19 perform all analysis that can be done on the limited Sample Volume

1,2,-8

F44300: Chain of Custody
Page 1 of 2

ACCUTEST.
F44300

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44300 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/3/06 9:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 1.2, 8

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

AIRBILL NUMBERS: 857487402637 / 857487402497

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [X] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 4

NUMBER OF 5035 FIELD KITS ? 4

NUMBER OR LAB FILTERED METALS ? 4

SUMMARY OF COMMENTS: Sample 7 2 vials received for VOA & 2 vials for MEE

TECHNICIAN SIGNATURE/DATE: 10/3/06 TECHNICIAN SIGNATURE/DATE: ASBD 10/03/06

F44300: Chain of Custody
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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-MB	QQ019289.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	Result	RL	MDL	Units	Q
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ745-MB	QQ019321.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7, F44300-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	100%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ746-MB	QQ019353.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-MB	XY023658.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ744-BS	QQ019288.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-90-7	Chlorobenzene	20	20.6	103	76-120
95-50-1	1,2-Dichlorobenzene	20	19.8	99	63-127
541-73-1	1,3-Dichlorobenzene	20	20.7	104	70-124
106-46-7	1,4-Dichlorobenzene	20	21.4	107	68-121
100-41-4	Ethylbenzene	20	21.2	106	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.8	94	73-118
1330-20-7	Xylenes (total)	60	63.6	106	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	71-124%

Blank Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ745-BS	QQ019320.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7, F44300-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.8	99	81-121
108-90-7	Chlorobenzene	20	19.7	99	76-120
95-50-1	1,2-Dichlorobenzene	20	19.3	97	63-127
541-73-1	1,3-Dichlorobenzene	20	20.2	101	70-124
106-46-7	1,4-Dichlorobenzene	20	20.6	103	68-121
100-41-4	Ethylbenzene	20	20.3	102	79-124
1634-04-4	Methyl Tert Butyl Ether	20	17.3	87	73-118
108-88-3	Toluene	20	20.0	100	79-122
1330-20-7	Xylenes (total)	60	60.7	101	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	108%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Blank Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ746-BS	QQ019352.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-88-3	Toluene	20	20.8	104	79-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	105%	71-130%
98-08-8	aaa-Trifluorotoluene	90%	71-124%

Blank Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY916-BS	XY023659.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	98.8	91	60-135
74-84-0	Ethane	219	203	93	64-141
74-85-1	Ethene	290	266	92	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-2MS	QQ019312.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2MSD	QQ019313.D	1	10/16/06	AF	n/a	n/a	GQQ744
F44334-2 [a]	QQ019307.D	1	10/16/06	AF	n/a	n/a	GQQ744

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	F44334-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-90-7	Chlorobenzene	ND		20	19.6	98	19.3	97	2	72-124/8
95-50-1	1,2-Dichlorobenzene	21.6		20	22.9	6*	22.7	5*	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	20.5	103	20.1	101	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	21.3	107	20.9	105	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.3	102	19.9	100	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	93.2		20	113	99	110	84	3	63-130/11
1330-20-7	Xylenes (total)	38.9		60	97.8	98	96.0	95	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44334-2	Limits
460-00-4	4-Bromofluorobenzene	110%	114%		71-130%
98-08-8	aaa-Trifluorotoluene	92%	96%		71-124%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44411-7MS	QQ019340.D	1	10/17/06	AF	n/a	n/a	GQQ745
F44411-7MSD	QQ019341.D	1	10/17/06	AF	n/a	n/a	GQQ745
F44411-7 [a]	QQ019334.D	1	10/17/06	AF	n/a	n/a	GQQ745

The QC reported here applies to the following samples: **Method:** EPA 601/602

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7, F44300-8

CAS No.	Compound	F44411-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.5	103	20.3	102	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.4	97	19.1	96	2	72-124/8
95-50-1	1,2-Dichlorobenzene	1.3		20	19.9	93	19.4	91	3	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.9	100	19.5	98	2	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	20.3	102	19.8	99	2	61-133/11
100-41-4	Ethylbenzene	ND		20	20.0	100	19.7	99	2	71-131/8
1634-04-4	Methyl Tert Butyl Ether	25.4		20	42.7	87	43.5	91	2	63-130/11
108-88-3	Toluene	1.5		20	19.6	91	19.5	90	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	59.6	99	58.7	98	2	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44411-7	Limits
460-00-4	4-Bromofluorobenzene	109%	106%	105%	71-130%
98-08-8	aaa-Trifluorotoluene	95%	94%	95%	71-124%

(a) All hits confirmed by dual column analysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44460-1MS	QQ019366.D	1	10/18/06	AF	n/a	n/a	GQQ746
F44460-1MSD	QQ019367.D	1	10/18/06	AF	n/a	n/a	GQQ746
F44460-1	QQ019364.D	1	10/18/06	AF	n/a	n/a	GQQ746

The QC reported here applies to the following samples: Method: EPA 601/602

F44300-1

CAS No.	Compound	F44460-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	1.0	U	20	19.9	100	19.8	99	1	69-132/7

CAS No.	Surrogate Recoveries	MS	MSD	F44460-1	Limits
460-00-4	4-Bromofluorobenzene	111%	109%	103%	71-130%
98-08-8	aaa-Trifluorotoluene	95%	92%	91%	71-124%

Matrix Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44334-1MS	XY023686.D	1	10/13/06	TD	n/a	n/a	GXY916
F44334-1	XY023672.D	1	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7

CAS No.	Compound	F44334-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	3.51		108	108	97	30-162
74-84-0	Ethane	ND		219	221	101	54-160
74-85-1	Ethene	ND		290	289	100	53-159

Duplicate Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44362-1DUP	XY023682.D	5	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023674.D	1	10/13/06	TD	n/a	n/a	GXY916
F44362-1	XY023681.D	5	10/13/06	TD	n/a	n/a	GXY916

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6, F44300-7

CAS No.	Compound	F44362-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	1370 [a]		1400		2	27
74-84-0	Ethane	3.08		2.1		37*	19
74-85-1	Ethene	4.02		3.82		5	18

(a) Result is from Run #2.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18115-MB	EE043430.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646

The QC reported here applies to the following samples: Method: EPA 610

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	36-114%
92-94-4	p-Terphenyl	89%	31-121%

Method Blank Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18115-MB	EE043445.D	1	10/11/06	MRE	10/10/06	OP18115	GEE1647

The QC reported here applies to the following samples: Method: EPA 610

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	84%	36-114%
92-94-4	p-Terphenyl	90%	31-121%

Blank Spike Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18115-BS	EE043429.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646

The QC reported here applies to the following samples: Method: EPA 610

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	17.7	89	60-98
208-96-8	Acenaphthylene	20	18.6	93	57-97
120-12-7	Anthracene	10	8.9	89	68-103
56-55-3	Benzo(a)anthracene	10	9.5	95	68-106
50-32-8	Benzo(a)pyrene	10	9.4	94	70-108
205-99-2	Benzo(b)fluoranthene	10	9.7	97	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.6	96	69-108
207-08-9	Benzo(k)fluoranthene	10	9.5	95	69-109
218-01-9	Chrysene	10	9.7	97	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.7	97	69-108
206-44-0	Fluoranthene	20	19.5	98	65-104
86-73-7	Fluorene	20	18.2	91	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	9.4	94	69-108
91-20-3	Naphthalene	20	15.8	79	52-91
90-12-0	1-Methylnaphthalene	20	16.5	83	54-94
91-57-6	2-Methylnaphthalene	20	16.0	80	55-94
85-01-8	Phenanthrene	20	19.1	96	62-102
129-00-0	Pyrene	20	19.1	96	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	36-114%
92-94-4	p-Terphenyl	97%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44300
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-SE

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18115-MS	EE043440.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
OP18115-MSD	EE043441.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646
F44300-6 [a]	EE043439.D	1	10/10/06	MRE	10/10/06	OP18115	GEE1646

The QC reported here applies to the following samples: Method: EPA 610

F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6

CAS No.	Compound	F44300-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		39.2	35.6	91	35.5	91	0	42-119/25
208-96-8	Acenaphthylene	ND		39.2	40.6	104	39.7	101	2	40-121/25
120-12-7	Anthracene	ND		19.6	17.7	90	17.7	90	0	63-108/19
56-55-3	Benzo(a)anthracene	ND		19.6	18.6	95	18.8	96	1	66-108/15
50-32-8	Benzo(a)pyrene	ND		19.6	18.4	94	18.5	94	1	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		19.6	19.0	97	19.1	97	1	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		19.6	18.6	95	18.8	96	1	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		19.6	18.6	95	18.6	95	0	66-111/15
218-01-9	Chrysene	ND		19.6	18.9	96	19.1	97	1	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		19.6	18.9	96	18.9	96	0	66-111/14
206-44-0	Fluoranthene	ND		39.2	38.5	98	38.7	99	1	64-107/16
86-73-7	Fluorene	ND		39.2	36.5	93	36.3	93	1	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		19.6	18.3	93	18.4	94	1	65-112/15
91-20-3	Naphthalene	10		39.2	41.9	81	43.2	85	3	41-102/24
90-12-0	1-Methylnaphthalene	ND		39.2	33.9	86	33.7	86	1	41-109/25
91-57-6	2-Methylnaphthalene	ND		39.2	34.1	87	34.2	87	0	43-106/25
85-01-8	Phenanthrene	ND		39.2	37.9	97	37.9	97	0	59-105/20
129-00-0	Pyrene	ND		39.2	37.8	96	38.0	97	1	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F44300-6	Limits
84-15-1	o-Terphenyl	92%	92%	74%	36-114%
92-94-4	p-Terphenyl	93%	94%	67%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44300
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP8472/GN22487	2.0	<2.0	mg/l	50	46.9	93.8	90-110%
Nitrogen, Nitrate	GP8472/GN22487	0.10	<0.10	mg/l	2.5	2.33	93.2	90-110%
Nitrogen, Nitrite	GP8472/GN22487	0.10	<0.10	mg/l	2.5	2.28	91.2	90-110%
Sulfate	GP8472/GN22487	2.0	<2.0	mg/l	50	45.9	91.8	90-110%
Total Organic Carbon	GP8475/GN22505	1.0	<1.0	mg/l	15	13.8	92.0	90-110%

Associated Samples:
Batch GP8472: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
Batch GP8475: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44300
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP8472/GN22487	F44300-1	mg/l	18.8	18.8	0.0	0-20%
Chloride	GP8472/GN22487	F44301-1	mg/l	4.7	4.7	0.0	0-20%
Nitrogen, Nitrate	GP8472/GN22487	F44300-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrate	GP8472/GN22487	F44301-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8472/GN22487	F44300-1	mg/l	<0.10	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8472/GN22487	F44301-1	mg/l	0.050 U	<0.10	0.0	0-20%
Sulfate	GP8472/GN22487	F44300-1	mg/l	6.9	6.9	0.0	0-20%
Sulfate	GP8472/GN22487	F44301-1	mg/l	1.0 U	<2.0	0.0	0-20%
Total Organic Carbon	GP8475/GN22505	F44265-7	mg/l	0.50 U	<1.0	0.0	0-20%

Associated Samples:
Batch GP8472: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
Batch GP8475: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F44300
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-SE

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP8472/GN22487	F44300-1	mg/l	18.8	50	60.7	83.8N(a)	90-110%
Chloride	GP8472/GN22487	F44301-1	mg/l	4.7	50	42.2	75.0N(a)	90-110%
Nitrogen, Nitrate	GP8472/GN22487	F44300-1	mg/l	<0.10	2.5	2.2	88.0N(a)	90-110%
Nitrogen, Nitrate	GP8472/GN22487	F44301-1	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Nitrogen, Nitrite	GP8472/GN22487	F44300-1	mg/l	<0.10	2.5	2.5	100.0	90-110%
Nitrogen, Nitrite	GP8472/GN22487	F44301-1	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Sulfate	GP8472/GN22487	F44300-1	mg/l	6.9	50	46.5	79.2N(a)	90-110%
Sulfate	GP8472/GN22487	F44301-1	mg/l	1.0 U	50	40.1	80.2N(a)	90-110%
Total Organic Carbon	GP8475/GN22505	F44265-7	mg/l	0.50 U	15	14.3	95.3	75-125%

Associated Samples:
Batch GP8472: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
Batch GP8475: F44300-1, F44300-2, F44300-3, F44300-4, F44300-5, F44300-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

6.3

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

12/12/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-HPFF

119909

Accutest Job Number: F45611

Sampling Date: 12/01/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 27

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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

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Sample Summary

Shaw E & I, Inc.

Job No: F45611

Camp Lejeune-HPFF
Project No: 119909

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F45611-1	12/01/06	17:00	MM	12/02/06	AQ	Ground Water	USTHPFFC-MW11

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F45611-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ020732.D	1	12/05/06	AF	n/a	n/a	GQQ794
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	41.2	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		71-130%
98-08-8	aaa-Trifluorotoluene	94%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F45611-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY024316.D	1	12/06/06	TD	n/a	n/a	GXY945
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	644	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F45611-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
Method:	EPA 610 EPA 610	**Percent Solids:**	n/a
Project:	Camp Lejeune-HPFF		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE044818.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	77%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F45611-1	**Date Sampled:**	12/01/06
Matrix:	AQ - Ground Water	**Date Received:**	12/02/06
		Percent Solids:	n/a
Project:	Camp Lejeune-HPFF		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	12/02/06 14:26	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	12/02/06 14:26	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	12/02/06 14:26	MP	EPA 300/SW846 9056
Sulfate	12.7	2.0	mg/l	1	12/02/06 14:26	MP	EPA 300/SW846 9056
Total Organic Carbon	5.8	1.0	mg/l	1	12/11/06 09:20	LE	EPA 415.1

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F45611

CHAIN-OF-CUSTODY RECORD

COC Number:
119909-NW-120106

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - HPFF	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
119909	Mark Martin	200935

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 602	PAH 610	Ethane, Ethylene and Methane RSK-175	NO_3,NO_2,NO_3+NO_2 by 353.2 and 354.1	SO4 BY 375.4	TOC BY 415.1
1	USTHPFFC-MW11	12/1/06	1700		X	UST1115GT-MW07	11	X	X	X	X	X	X
2													
3													
4													
5													
6													
7													
8													
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1		UPS 1Z71V 098 41 9926 8811	12/1/06	16:00
2		UPS	Jorge Carol	12-2-06	08:30
3					

Remarks

7 Day TAT

3.2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F45611 CLIENT: SHAW PROJECT: CAMP LEJEUNE - HPFF

DATE/TIME RECEIVED: 12-2-06 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.2

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

AIRBILL NUMBERS:

COOLER INFORMATION

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

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 12-2-06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

3.1 3

F45611: Chain of Custody
Page 2 of 2

4

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ794-MB	QQ020731.D	1	12/05/06	AF	n/a	n/a	GQQ794

The QC reported here applies to the following samples: Method: EPA 601/602

F45611-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	87%	71-130%
98-08-8	aaa-Trifluorotoluene	91%	71-124%

Method Blank Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY945-MB	XY024310.D	1	12/06/06	TD	n/a	n/a	GXY945

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F45611-1

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ794-BS	QQ020730.D	1	12/05/06	AF	n/a	n/a	GQQ794
GQQ794-BSD	QQ020786.D	1	12/06/06	AF	n/a	n/a	GQQ794

The QC reported here applies to the following samples: Method: EPA 601/602

F45611-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.7	94	18.7	94	0	81-121/30
108-90-7	Chlorobenzene	20	19.0	95	19.0	95	0	76-120/30
95-50-1	1,2-Dichlorobenzene	20	17.3	87	18.2	91	5	63-127/30
541-73-1	1,3-Dichlorobenzene	20	17.9	90	18.5	93	3	70-124/30
106-46-7	1,4-Dichlorobenzene	20	17.8	89	18.3	92	3	68-121/30
100-41-4	Ethylbenzene	20	18.6	93	18.4	92	1	79-124/30
1634-04-4	Methyl Tert Butyl Ether	20	18.1	91	17.4	87	4	73-118/30
108-88-3	Toluene	20	18.5	93	18.4	92	1	79-122/30
1330-20-7	Xylenes (total)	60	55.6	93	55.4	92	0	79-121/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	93%	98%	71-130%
98-08-8	aaa-Trifluorotoluene	92%	94%	71-124%

Blank Spike Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY945-BS	XY024311.D	1	12/06/06	TD	n/a	n/a	GXY945

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F45611-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	104	96	60-135
74-84-0	Ethane	219	215	98	64-141
74-85-1	Ethene	290	279	96	63-139

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45492-5MS	QQ020756.D	1	12/05/06	AF	n/a	n/a	GQQ794
F45492-5MSD	QQ020757.D	1	12/05/06	AF	n/a	n/a	GQQ794
F45492-5	QQ020750.D	1	12/05/06	AF	n/a	n/a	GQQ794

The QC reported here applies to the following samples: Method: EPA 601/602

F45611-1

CAS No.	Compound	F45492-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	19.4	97	19.3	97	1	74-126/11
108-90-7	Chlorobenzene	ND		20	19.9	100	19.6	98	2	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	19.5	98	19.6	98	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	19.7	99	19.5	98	1	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	19.6	98	19.6	98	0	61-133/11
100-41-4	Ethylbenzene	ND		20	11.6	58*	10.9	55*	6	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.6	93	18.5	93	1	63-130/11
108-88-3	Toluene	ND		20	10.1	51*	9.7	49*	4	69-132/7
1330-20-7	Xylenes (total)	ND		60	1.3	2*	ND	0*	200*	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F45492-5	Limits
460-00-4	4-Bromofluorobenzene	96%	99%	93%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	95%	94%	71-124%

Matrix Spike Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T15490-13MS	XY024330.D	1	12/06/06	TD	n/a	n/a	GXY945
T15490-13	XY024322.D	1	12/06/06	TD	n/a	n/a	GXY945

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F45611-1

CAS No.	Compound	T15490-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	2.28		108	135	123	30-162
74-84-0	Ethane	ND		219	281	128	54-160
74-85-1	Ethene	ND		290	363	125	53-159

Duplicate Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T15490-13DUP	XY024329.D	1	12/06/06	TD	n/a	n/a	GXY945
T15490-13	XY024322.D	1	12/06/06	TD	n/a	n/a	GXY945

The QC reported here applies to the following samples: Method: RSKSOP-147/175

F45611-1

CAS No.	Compound	T15490-13 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	2.28		2.26		1	27
74-84-0	Ethane	ND		ND		nc	19
74-85-1	Ethene	ND		ND		nc	18

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18760-MB	EE044817.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688

The QC reported here applies to the following samples: Method: EPA 610

F45611-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	1.0	ug/l	
120-12-7	Anthracene	ND	2.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.10	ug/l	
218-01-9	Chrysene	ND	2.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	1.0	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	82%	36-114%
92-94-4	p-Terphenyl	83%	31-121%

Blank Spike Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18760-BS	EE044816.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688

The QC reported here applies to the following samples: Method: EPA 610

F45611-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	20	17.3	87	60-98
208-96-8	Acenaphthylene	20	18.1	91	57-97
120-12-7	Anthracene	10	8.5	85	68-103
56-55-3	Benzo(a)anthracene	10	9.0	90	68-106
50-32-8	Benzo(a)pyrene	10	9.0	90	70-108
205-99-2	Benzo(b)fluoranthene	10	9.1	91	70-108
191-24-2	Benzo(g,h,i)perylene	10	9.1	91	69-108
207-08-9	Benzo(k)fluoranthene	10	9.0	90	69-109
218-01-9	Chrysene	10	9.1	91	70-106
53-70-3	Dibenzo(a,h)anthracene	10	9.2	92	69-108
206-44-0	Fluoranthene	20	18.2	91	65-104
86-73-7	Fluorene	20	17.4	87	61-100
193-39-5	Indeno(1,2,3-cd)pyrene	10	8.9	89	69-108
91-20-3	Naphthalene	20	15.7	79	52-91
90-12-0	1-Methylnaphthalene	20	16.3	82	54-94
91-57-6	2-Methylnaphthalene	20	15.7	79	55-94
85-01-8	Phenanthrene	20	18.3	92	62-102
129-00-0	Pyrene	20	18.0	90	65-104

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	87%	36-114%
92-94-4	p-Terphenyl	90%	31-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F45611
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18760-MS	EE044821.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688
OP18760-MSD	EE044822.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688
F45675-2	EE044820.D	1	12/07/06	MRE	12/06/06	OP18760	GEE1688

The QC reported here applies to the following samples: Method: EPA 610

F45611-1

CAS No.	Compound	F45675-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		40	35.1	88	32.3	81	8	42-119/25
208-96-8	Acenaphthylene	ND		40	35.4	89	33.0	83	7	40-121/25
120-12-7	Anthracene	ND		20	17.7	89	16.8	84	5	63-108/19
56-55-3	Benzo(a)anthracene	ND		20	18.6	93	18.0	90	3	66-108/15
50-32-8	Benzo(a)pyrene	ND		20	18.7	94	17.9	90	4	67-111/15
205-99-2	Benzo(b)fluoranthene	ND		20	19.8	99	18.6	93	6	67-110/15
191-24-2	Benzo(g,h,i)perylene	ND		20	18.9	95	18.1	91	4	66-110/15
207-08-9	Benzo(k)fluoranthene	ND		20	18.8	94	18.2	91	3	66-111/15
218-01-9	Chrysene	ND		20	18.8	94	18.2	91	3	60-123/17
53-70-3	Dibenzo(a,h)anthracene	ND		20	19.2	96	18.5	93	4	66-111/14
206-44-0	Fluoranthene	ND		40	38.2	96	36.7	92	4	64-107/16
86-73-7	Fluorene	ND		40	35.4	89	33.6	84	5	52-108/22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		20	18.3	92	18.0	90	2	65-112/15
91-20-3	Naphthalene	ND		40	30.1	75	28.6	72	5	41-102/24
90-12-0	1-Methylnaphthalene	ND		40	32.3	81	30.9	77	4	41-109/25
91-57-6	2-Methylnaphthalene	ND		40	30.0	75	28.4	71	5	43-106/25
85-01-8	Phenanthrene	ND		40	38.0	95	36.2	91	5	59-105/20
129-00-0	Pyrene	ND		40	37.8	95	36.4	91	4	65-106/15

CAS No.	Surrogate Recoveries	MS	MSD	F45675-2	Limits
84-15-1	o-Terphenyl	87%	85%	88%	36-114%
92-94-4	p-Terphenyl	92%	90%	88%	31-121%

General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F45611
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrate	GP8710/GN23175	0.10	<0.10	mg/l	2.5	2.48	99.2	90-110%
Nitrogen, Nitrite	GP8710/GN23175	0.10	<0.10	mg/l	2.5	2.55	102.0	90-110%
Sulfate	GP8710/GN23175	2.0	<2.0	mg/l	50	48.4	96.8	90-110%
Total Organic Carbon	GP8733/GN23226	1.0	<1.0	mg/l	15	15.8	105.3	90-110%

Associated Samples:
Batch GP8710: F45611-1
Batch GP8733: F45611-1
(*) Outside of QC limits

6.1

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F45611
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Nitrogen, Nitrate	GP8710/GN23175	F45598-1	mg/l	1.4	1.4	0.0	0-20%
Nitrogen, Nitrate	GP8710/GN23175	F45598-2	mg/l	4.7	4.8	2.1	0-20%
Nitrogen, Nitrite	GP8710/GN23175	F45598-1	mg/l	0.050 U	<0.10	0.0	0-20%
Nitrogen, Nitrite	GP8710/GN23175	F45598-2	mg/l	0.050 U	<0.10	0.0	0-20%
Sulfate	GP8710/GN23175	F45598-1	mg/l	25.1	23.7	5.7	0-20%
Sulfate	GP8710/GN23175	F45598-2	mg/l	27.2	25.2	7.6	0-20%
Total Organic Carbon	GP8733/GN23226	F45576-1	mg/l	1.5	1.5	0.0	0-20%

Associated Samples:
Batch GP8710: F45611-1
Batch GP8733: F45611-1
(*) Outside of QC limits

6.2
6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F45611
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-HPFF

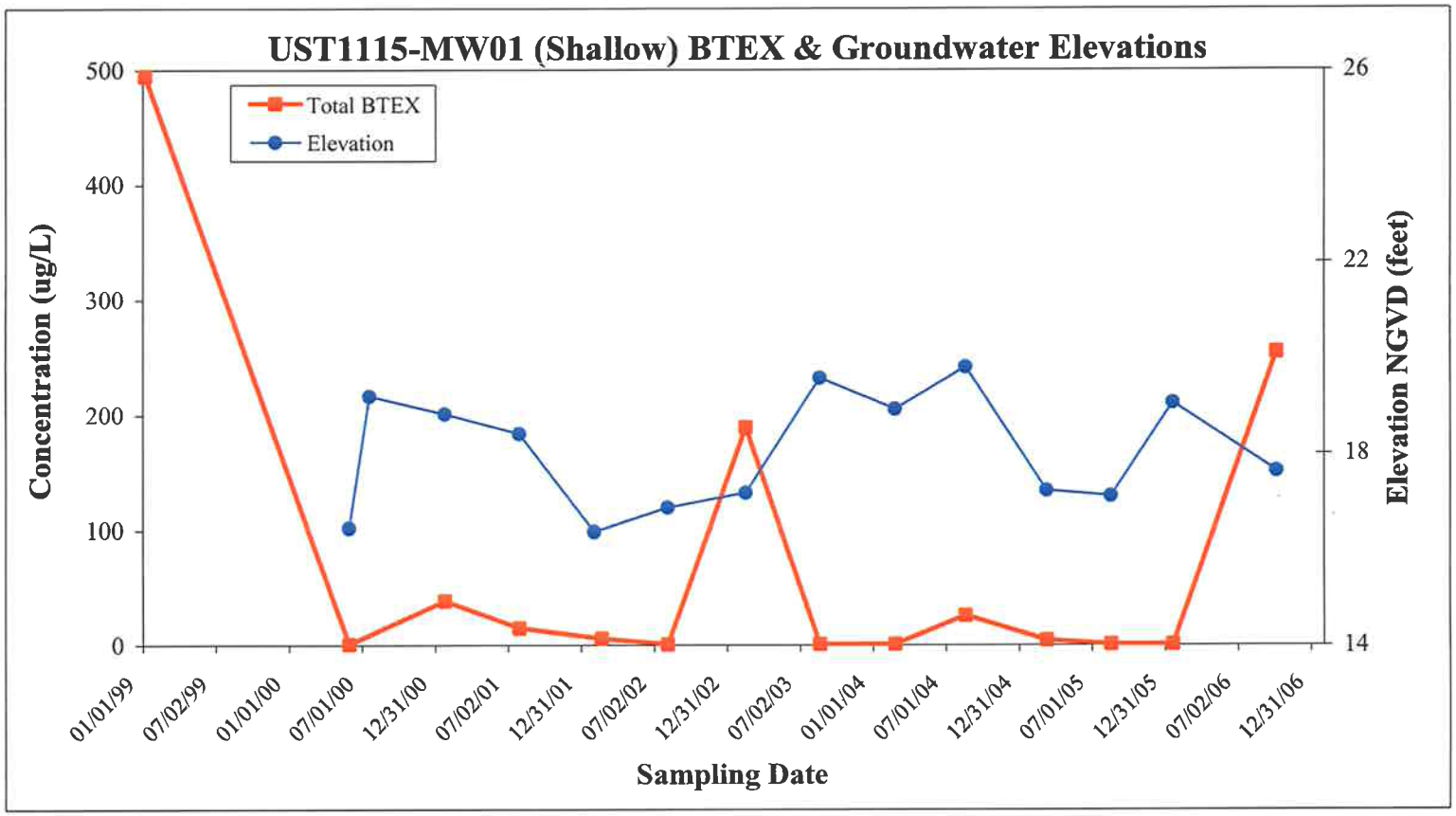
Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrate	GP8710/GN23175	F45598-1	mg/l	1.4	2.5	4.1	108.0	90-110%
Nitrogen, Nitrate	GP8710/GN23175	F45598-2	mg/l	4.7	2.5	7.0	92.0	90-110%
Nitrogen, Nitrite	GP8710/GN23175	F45598-1	mg/l	0.050 U	2.5	2.7	108.0	90-110%
Nitrogen, Nitrite	GP8710/GN23175	F45598-2	mg/l	0.050 U	2.5	2.6	104.0	90-110%
Sulfate	GP8710/GN23175	F45598-1	mg/l	25.1	50	66.5	82.8N(a)	90-110%
Sulfate	GP8710/GN23175	F45598-2	mg/l	27.2	50	65.7	77.0N(a)	90-110%
Total Organic Carbon	GP8733/GN23226	F45576-1	mg/l	1.5	15	18.0	110.0	75-125%

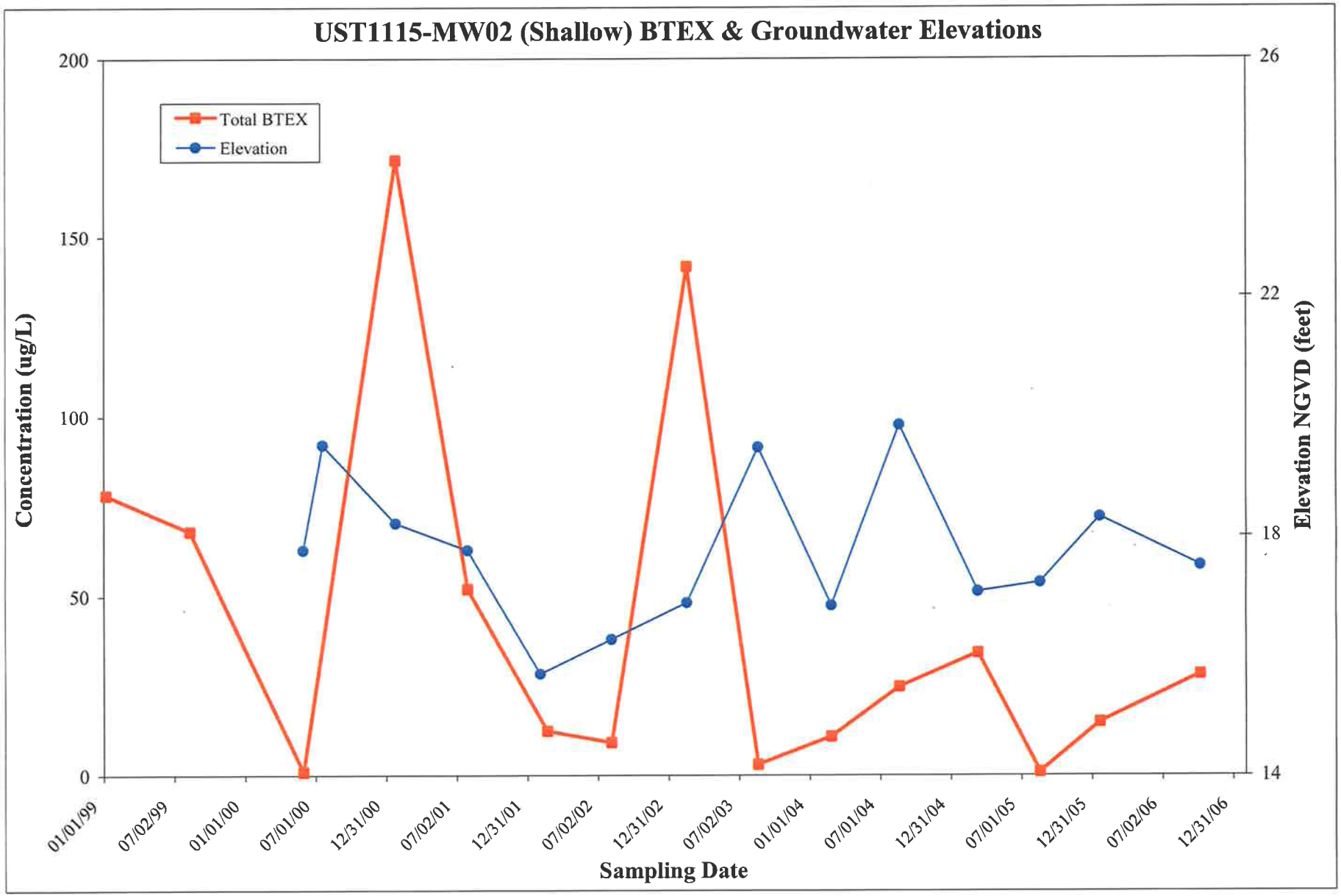
Associated Samples:
Batch GP8710: F45611-1
Batch GP8733: F45611-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

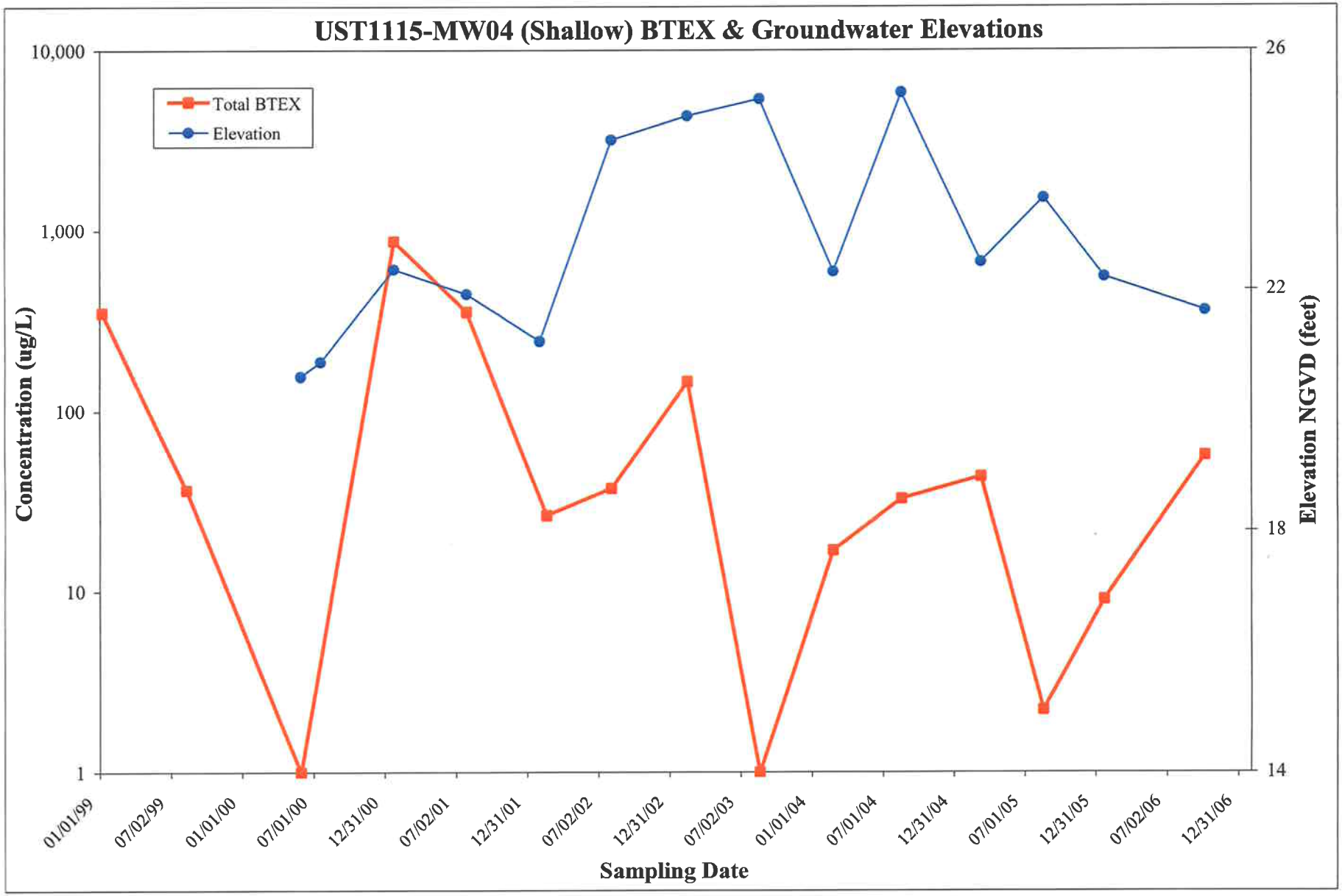
6.3
6

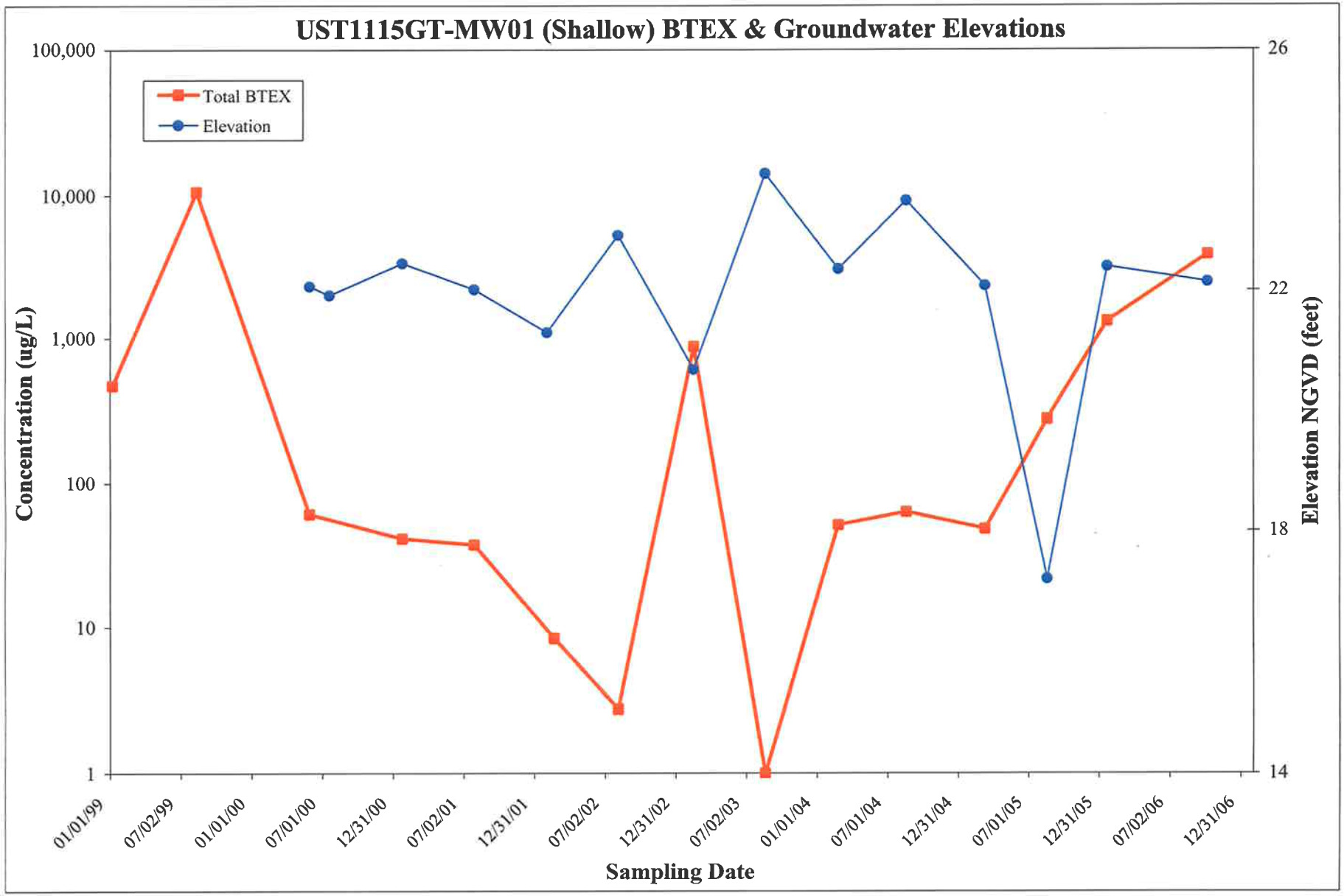
APPENDIX F

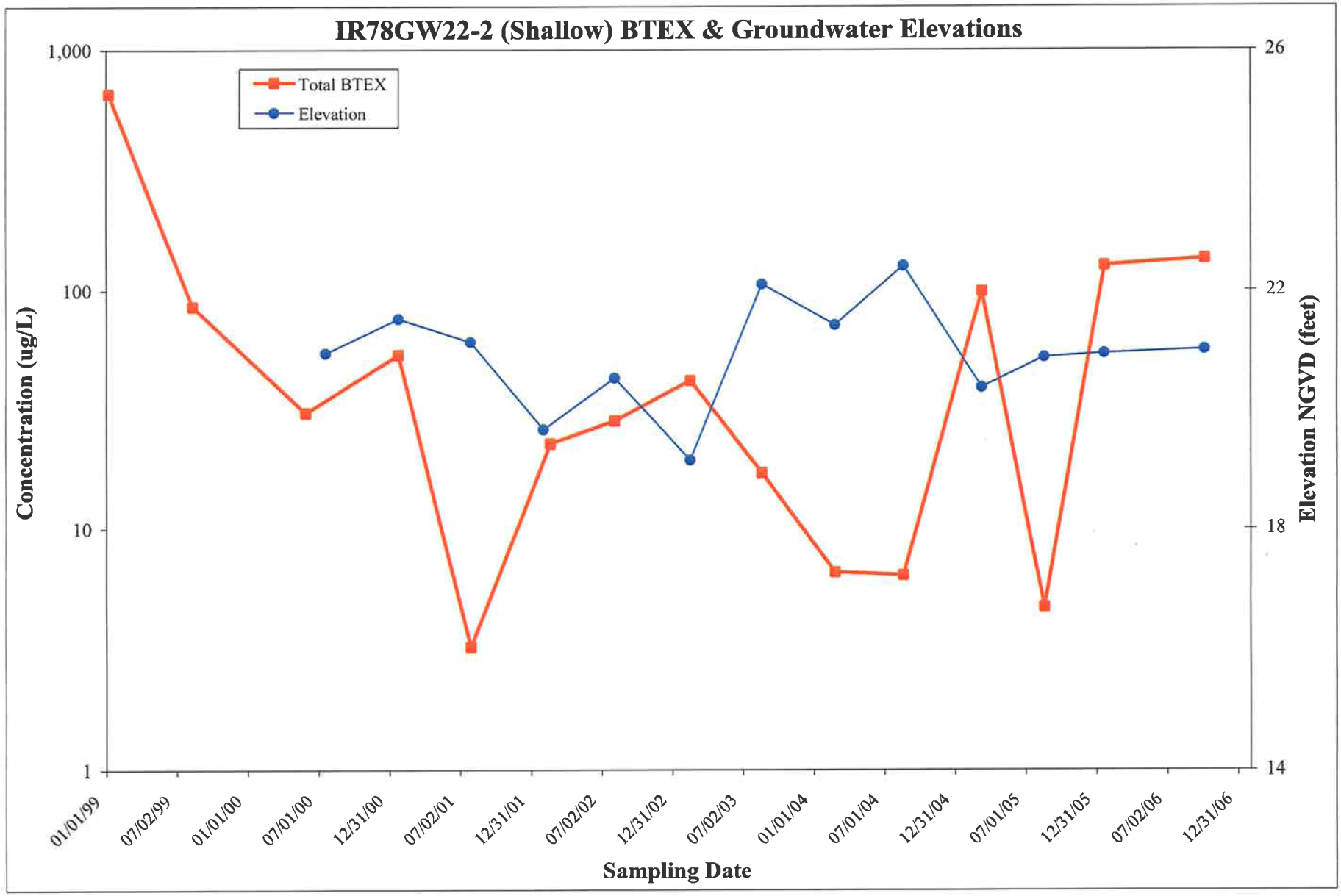
HYDROGRAPHS WITH GROUNDWATER ANALYTICAL RESULTS

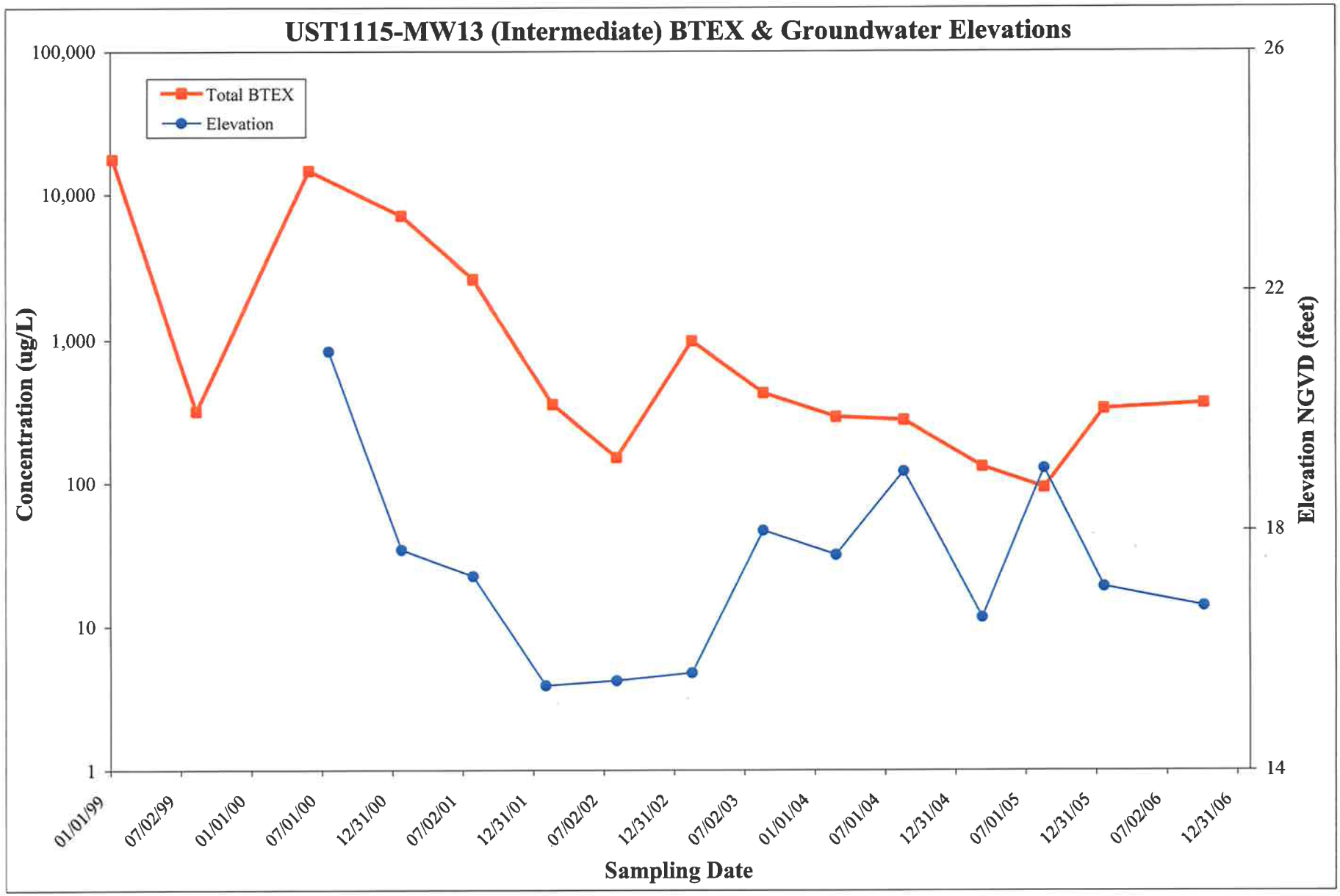

UST1115-MW01 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
500
400
300
200
100
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
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07/02/06
12/31/06

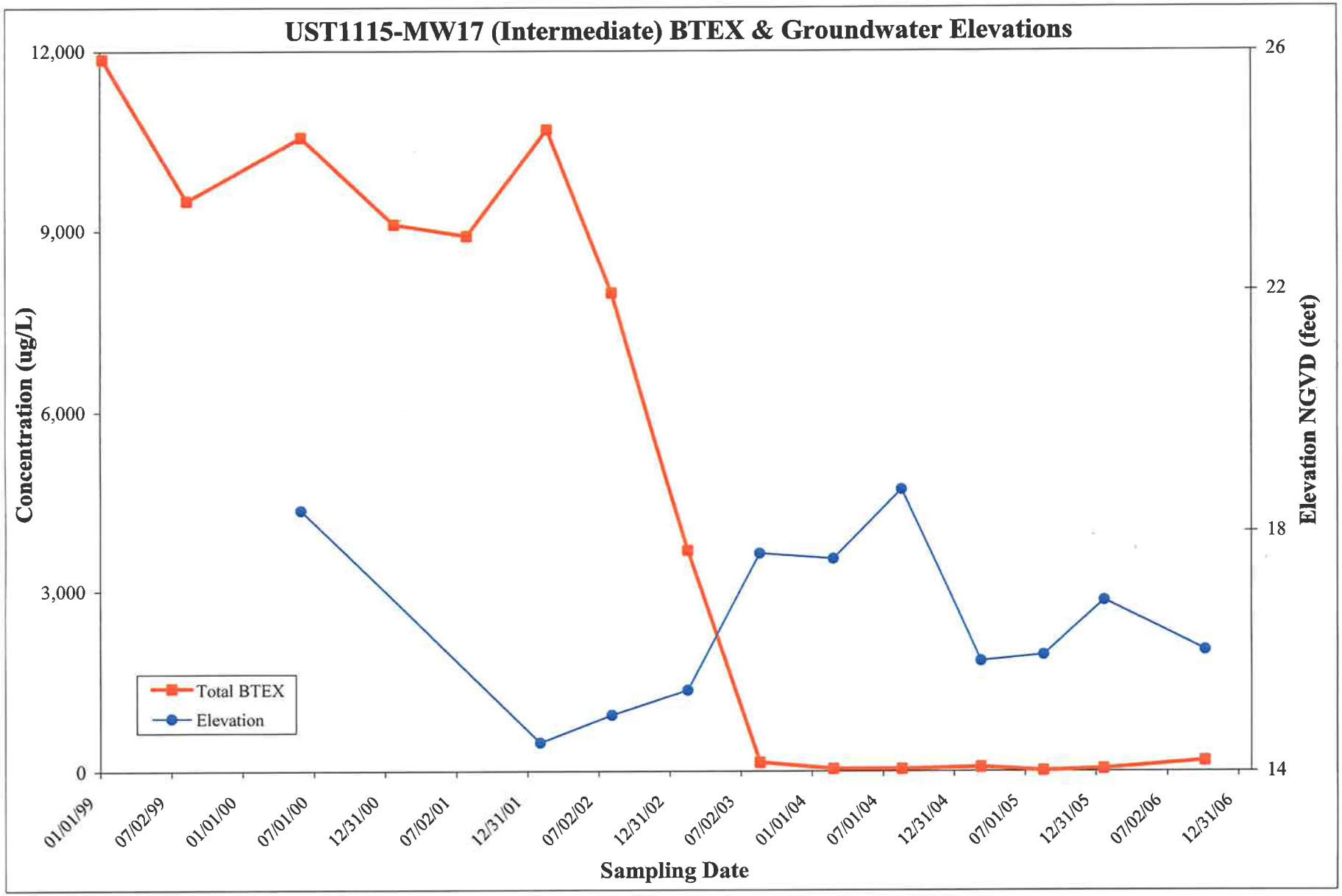

UST1115-MW02 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
200
150
100
50
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
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07/02/06
12/31/06

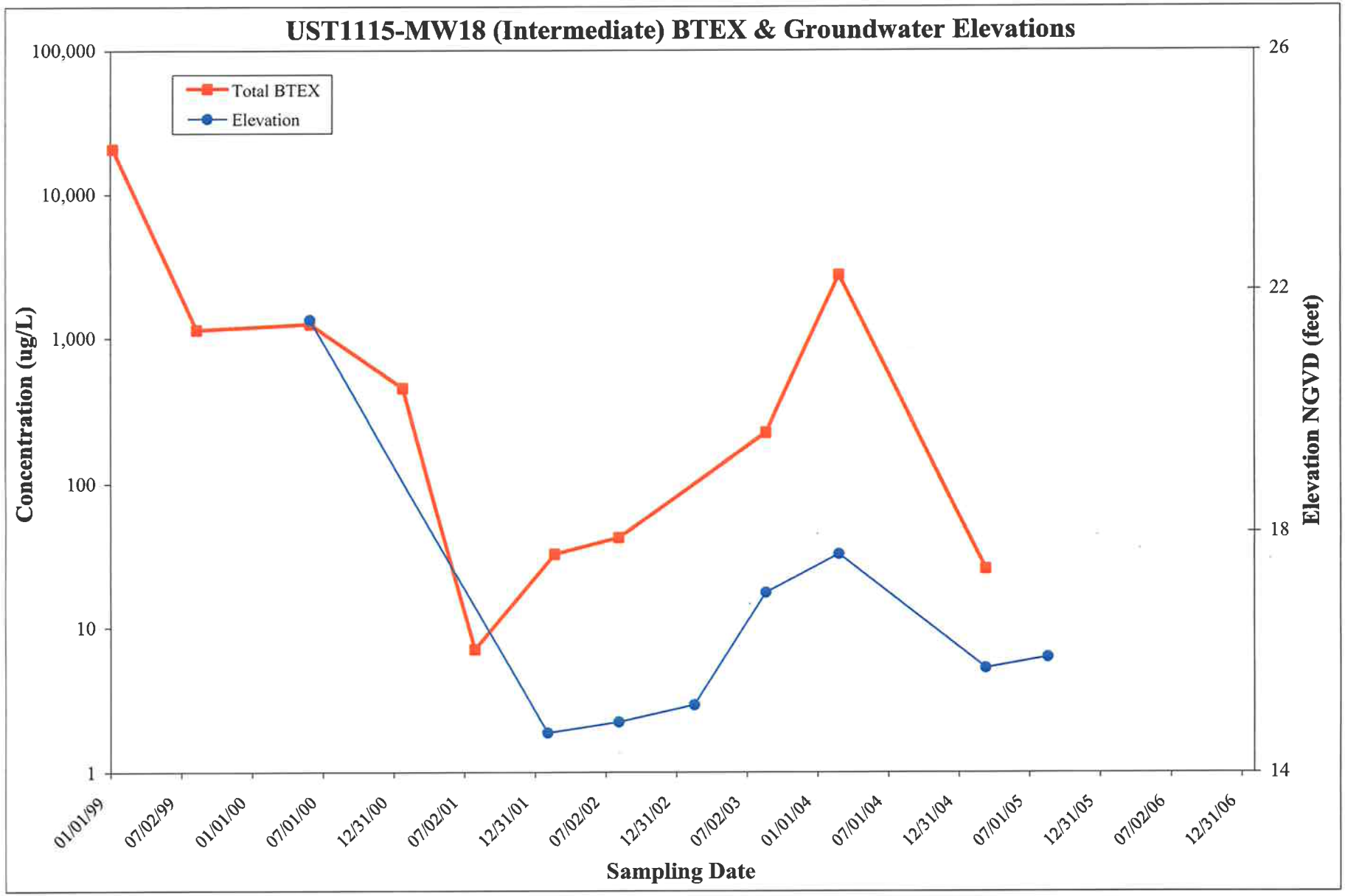

UST1115-MW04 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

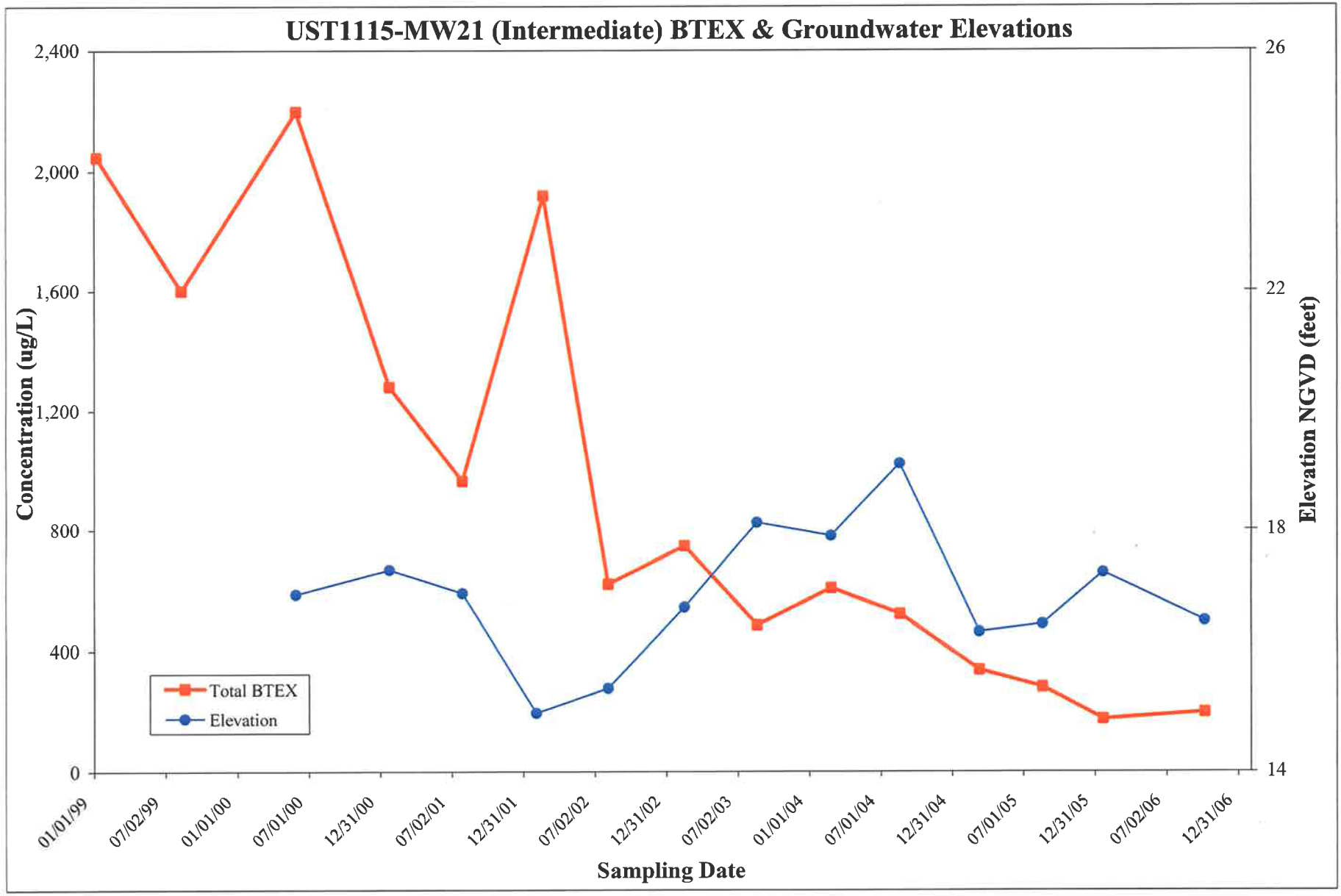

UST1115GT-MW01 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
100,000
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

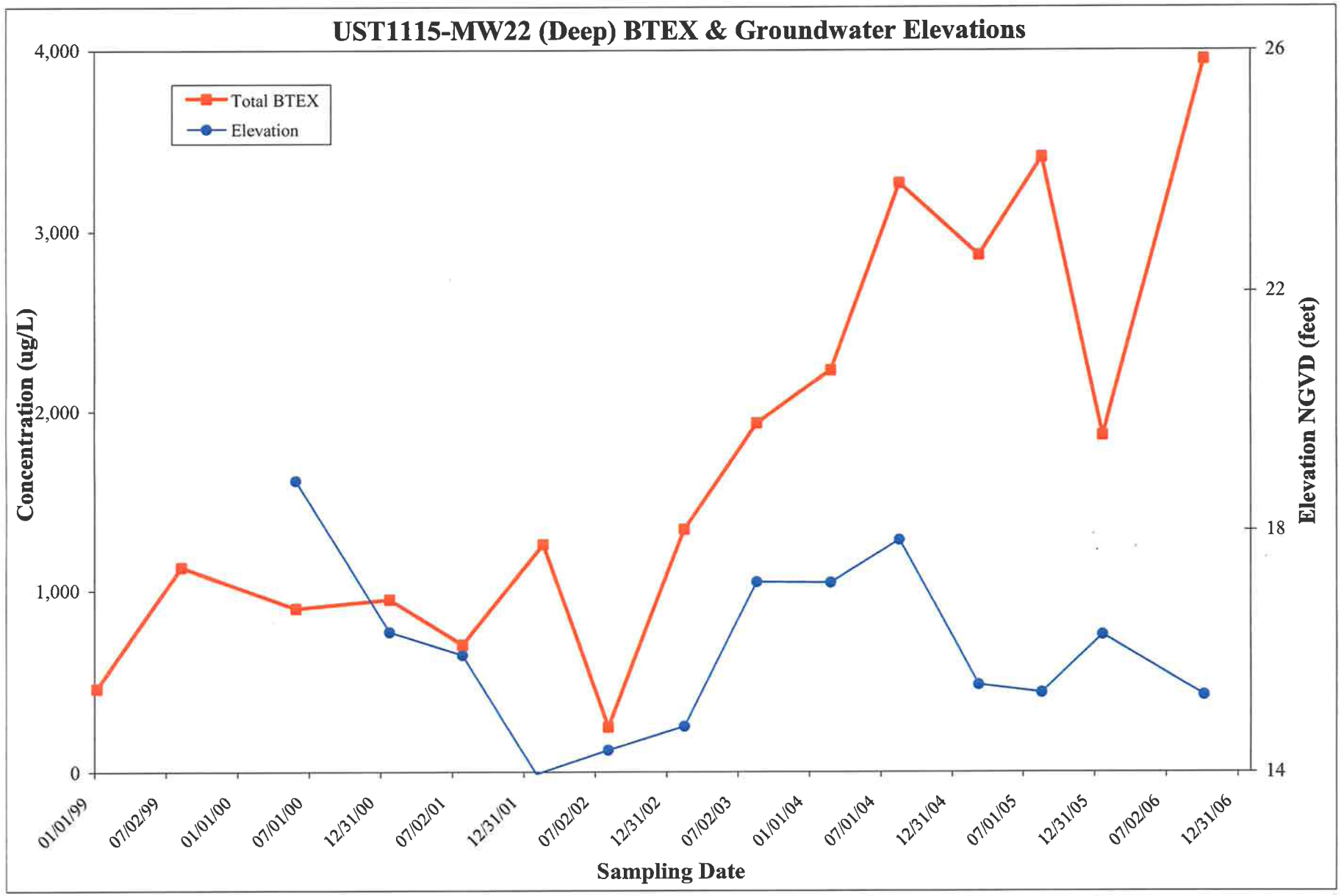

IR78GW22-2 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
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07/01/04
12/31/04
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12/31/05
07/02/06
12/31/06
Sampling Date

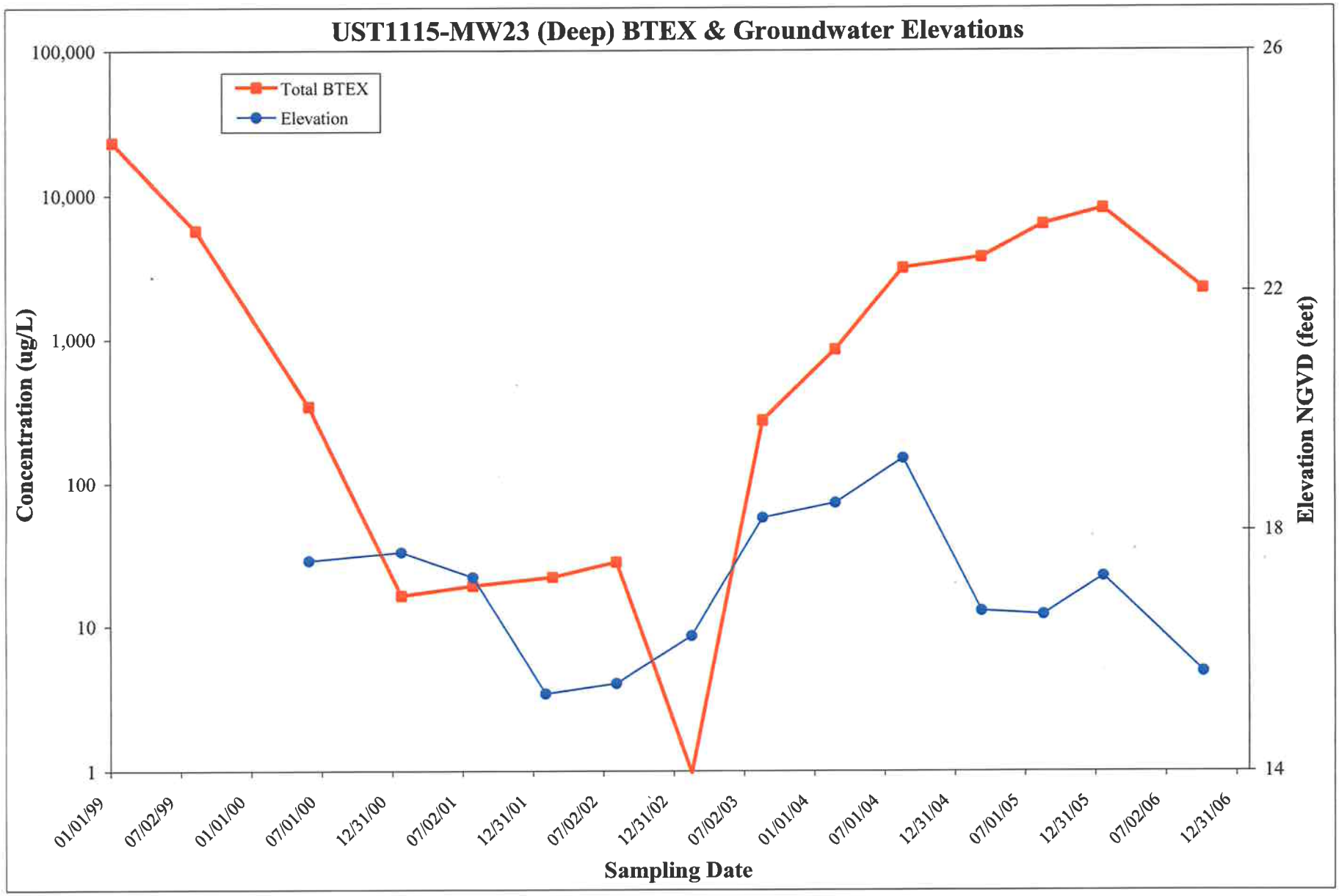

UST1115-MW13 (Intermediate) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

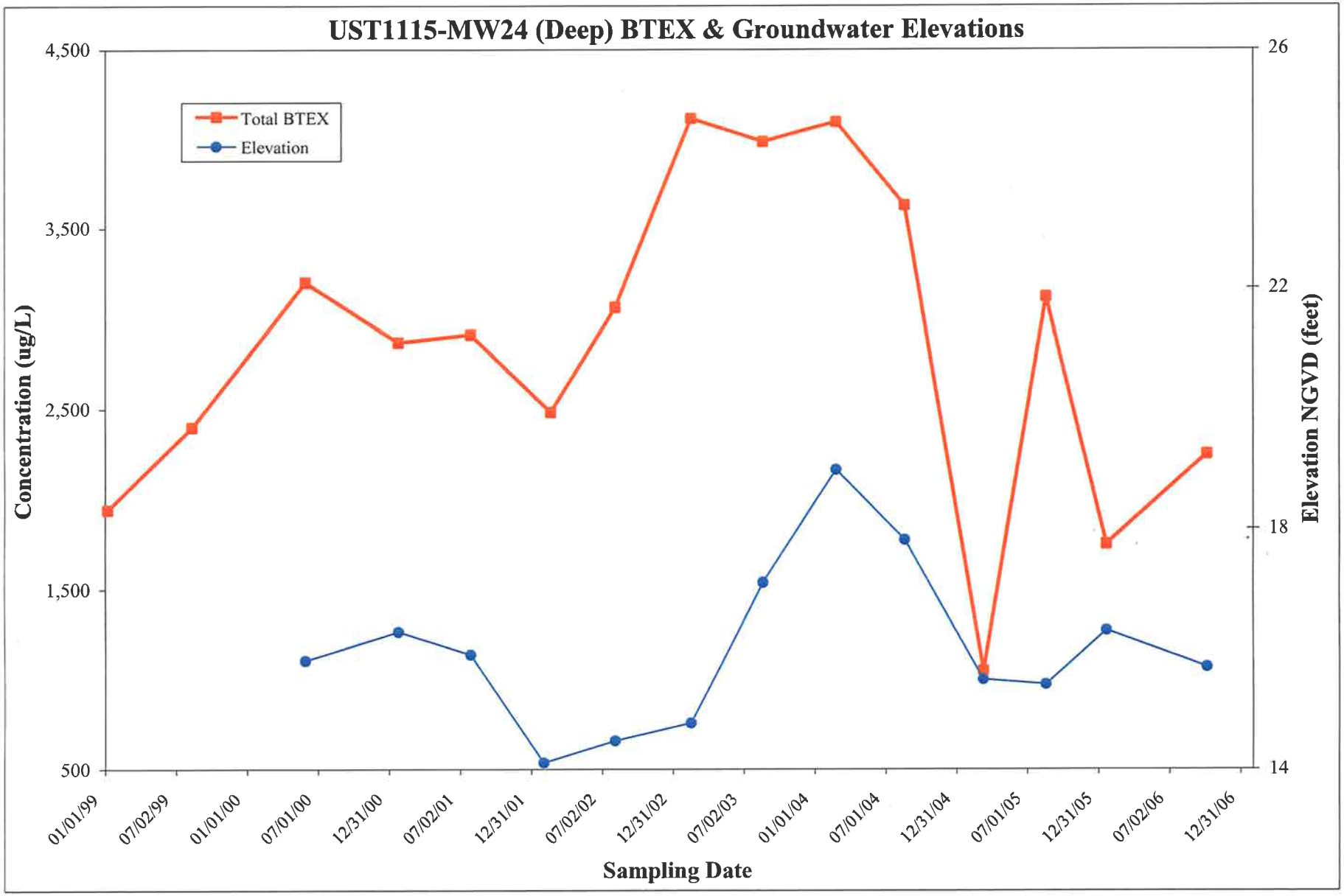

UST1115-MW17 (Intermediate) BTEX & Groundwater Elevations
Concentration (ug/L)
12,000
9,000
6,000
3,000
0
Elevation NGVD (feet)
26
22
18
14
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

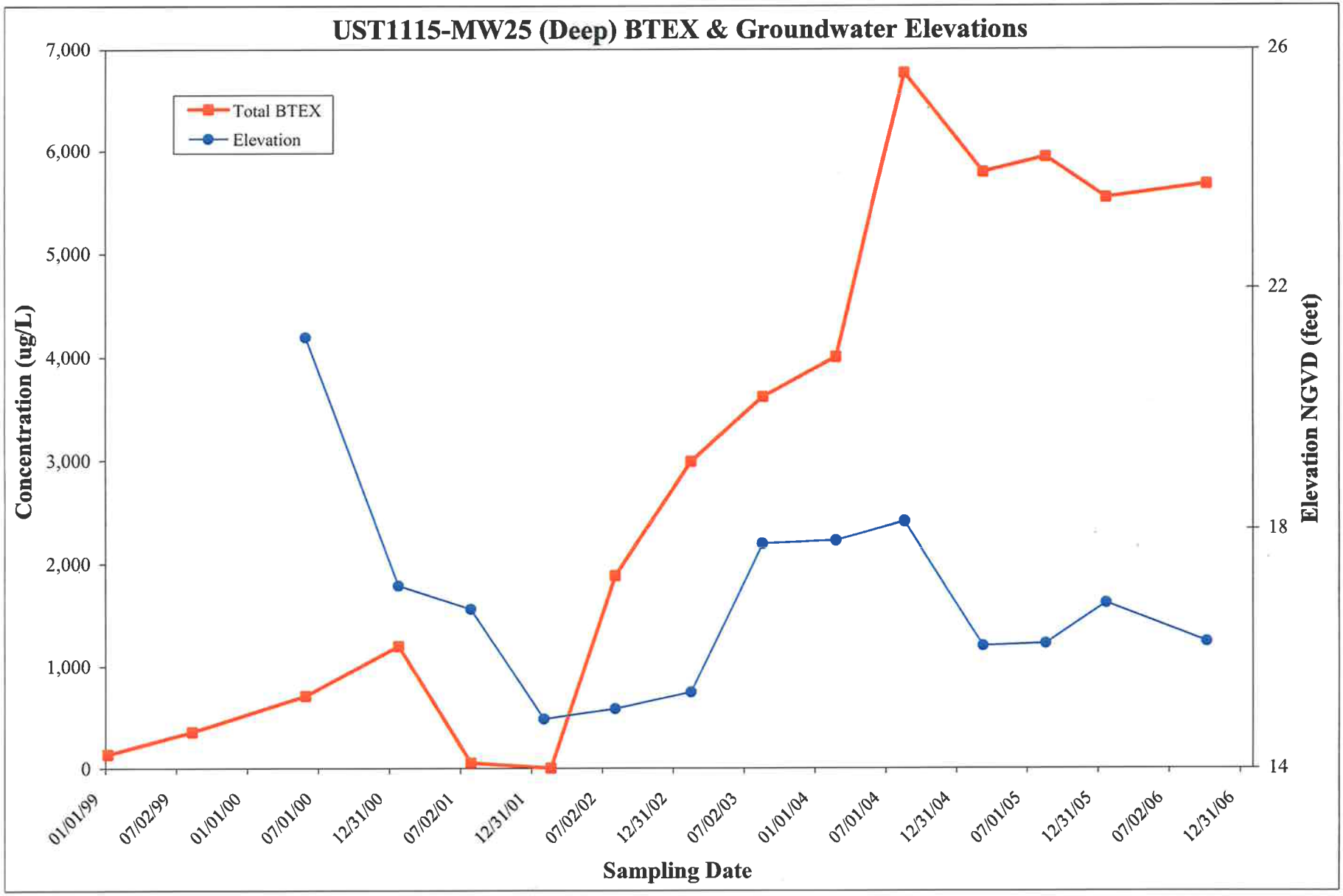

UST1115-MW18 (Intermediate) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

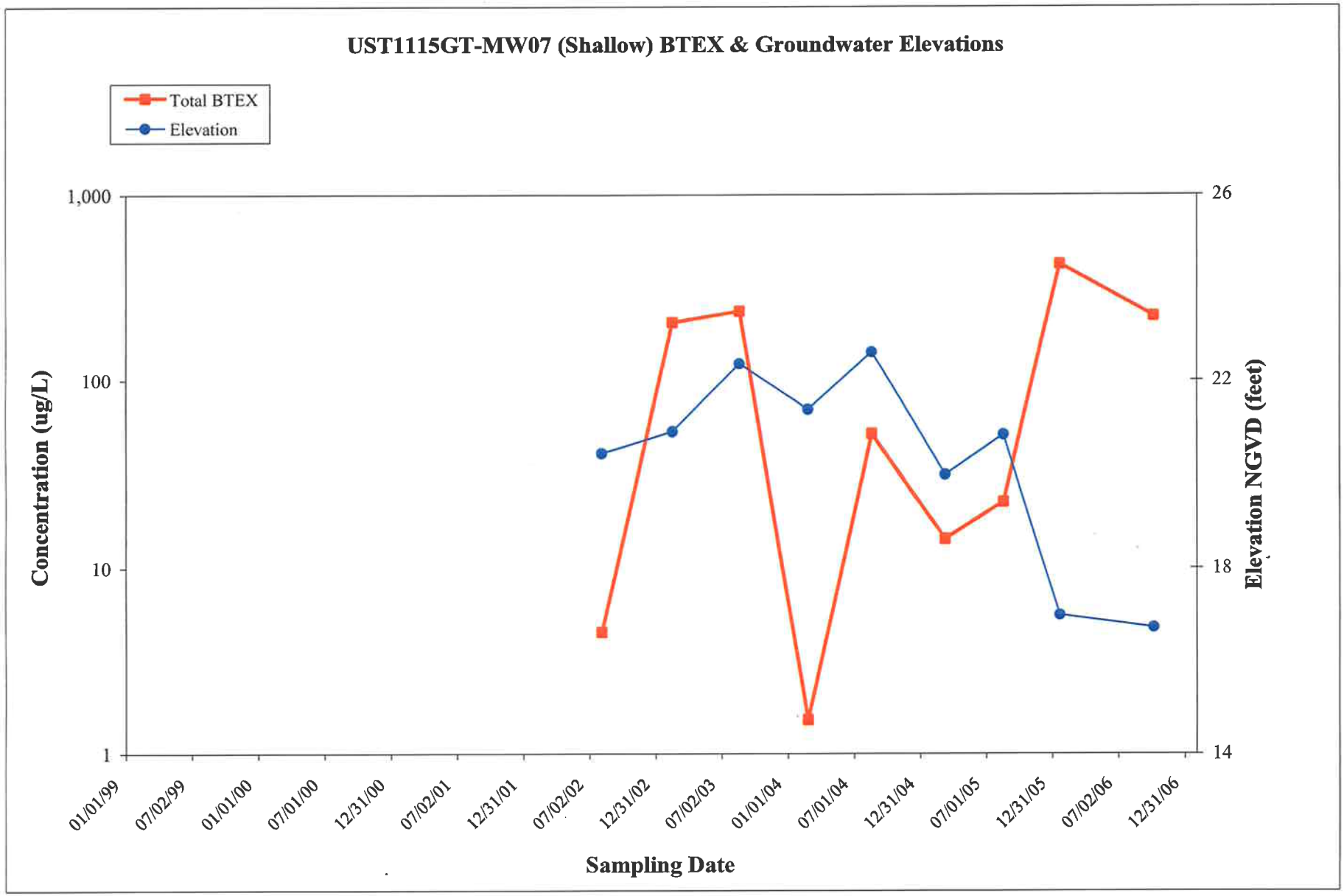

UST1115-MW21 (Intermediate) BTEX & Groundwater Elevations
Concentration (ug/L)
2,400
2,000
1,600
1,200
800
400
0
Elevation NGVD (feet)
26
22
18
14
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

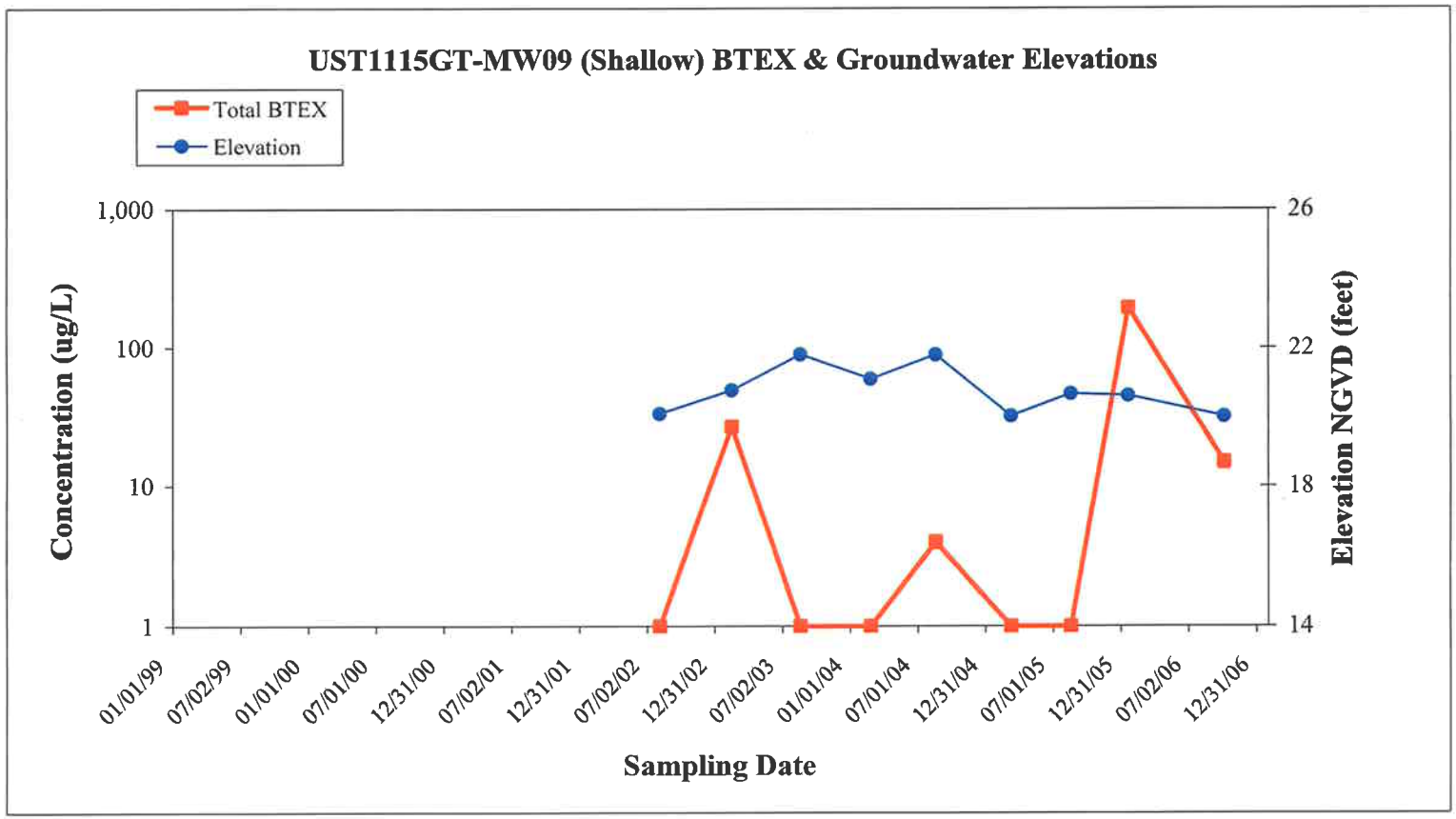

UST1115-MW22 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
4,000
3,000
2,000
1,000
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06

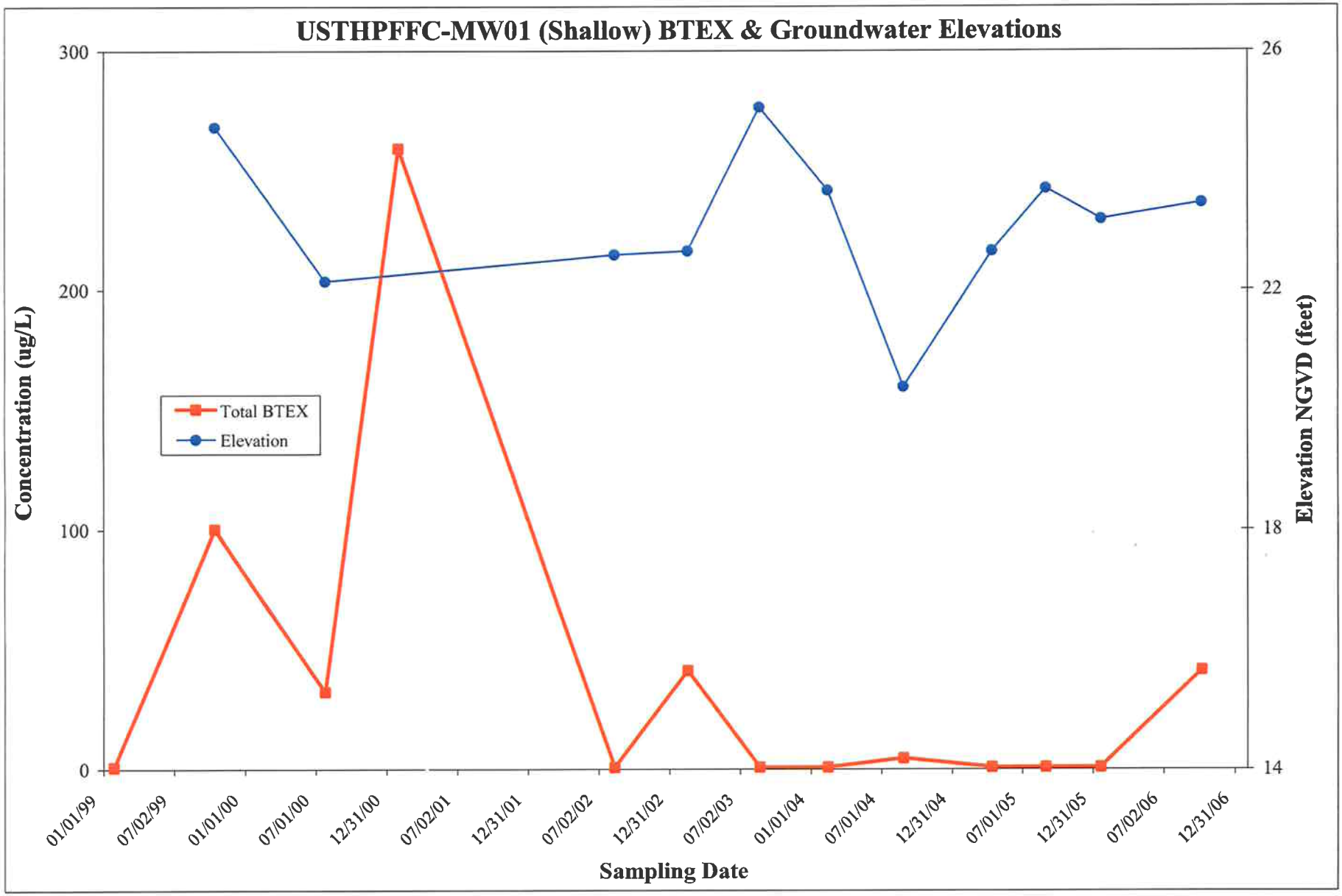

UST1115-MW23 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
100,000
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

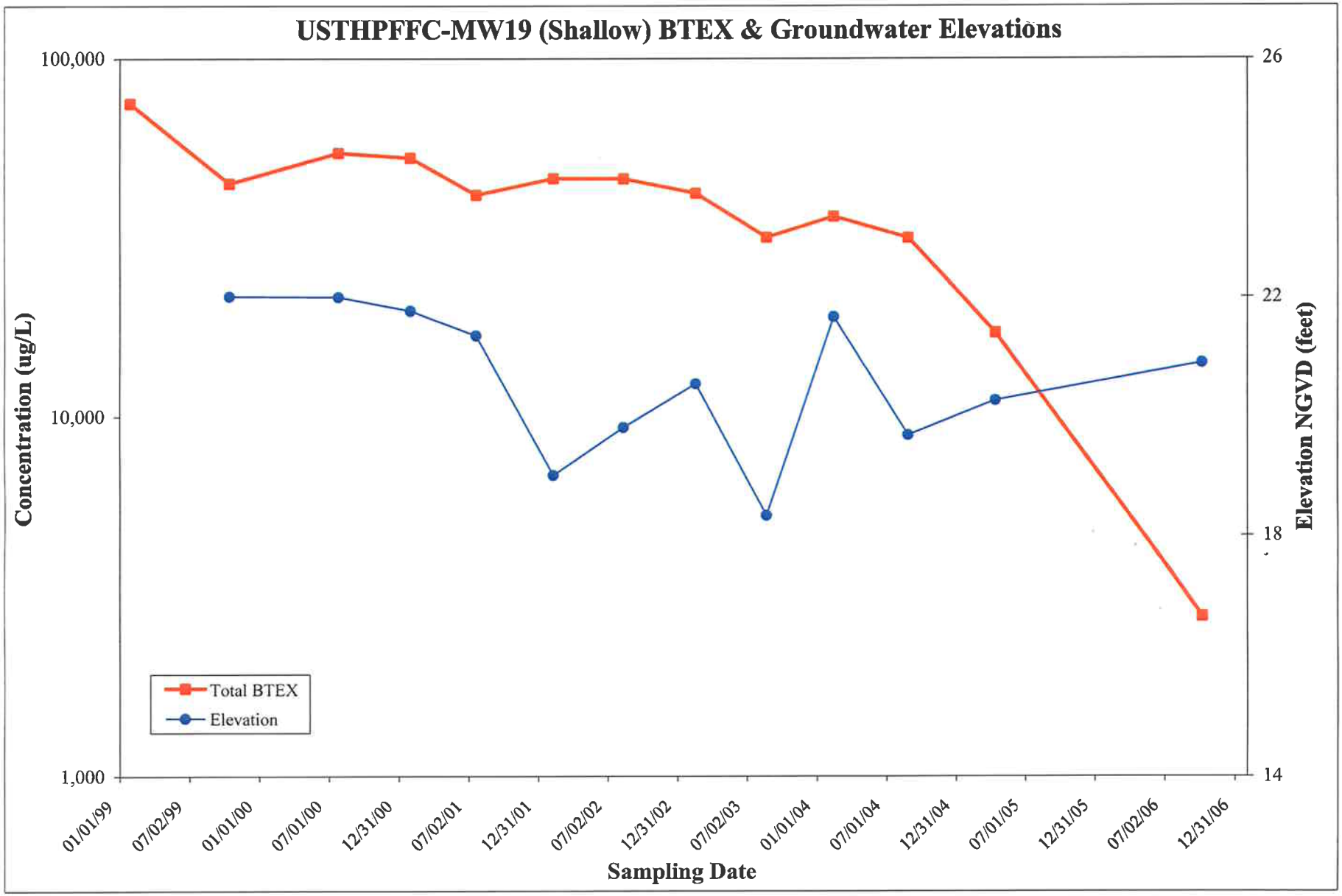

UST1115-MW24 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
4,500
3,500
2,500
1,500
500
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

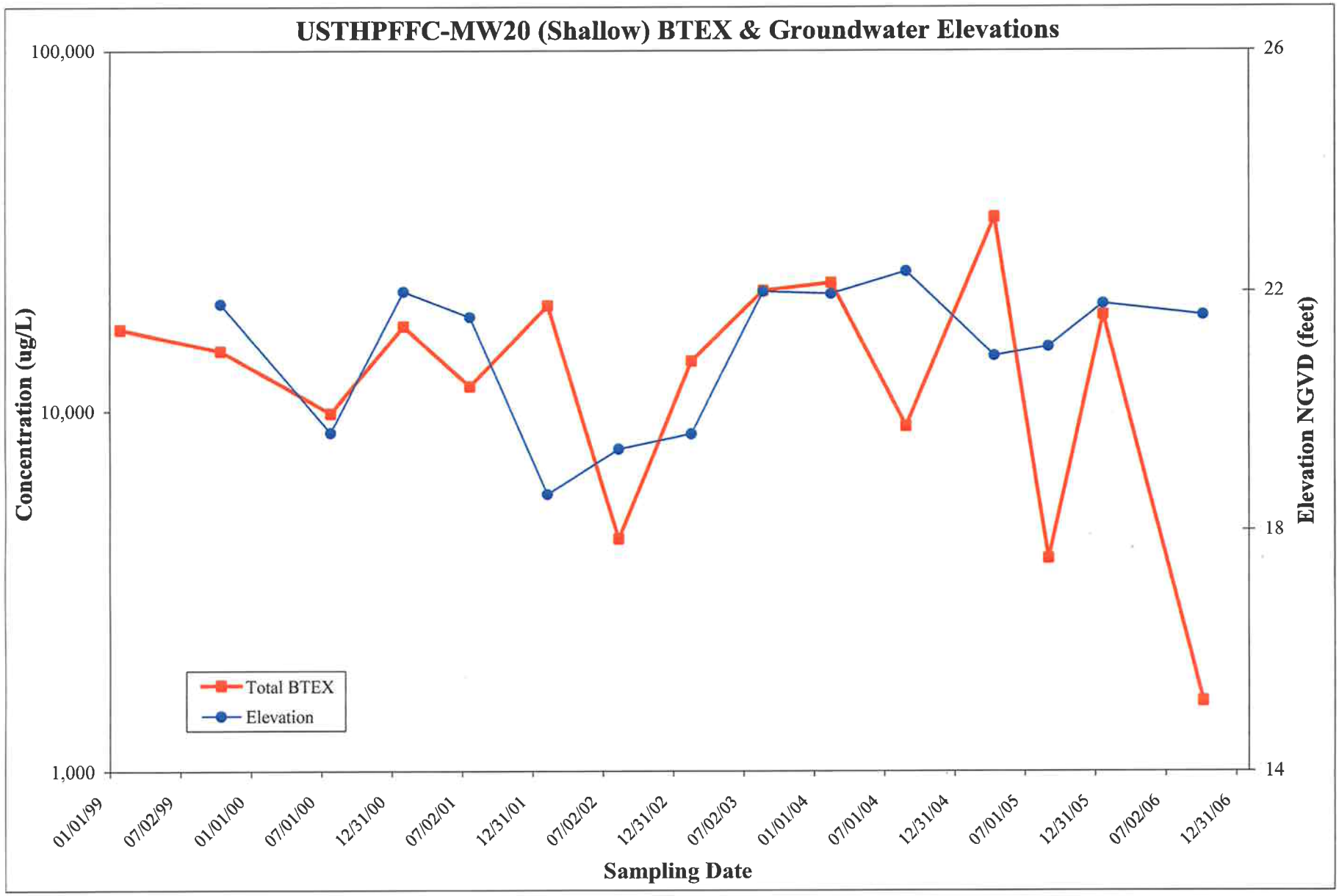

UST1115-MW25 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
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07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06

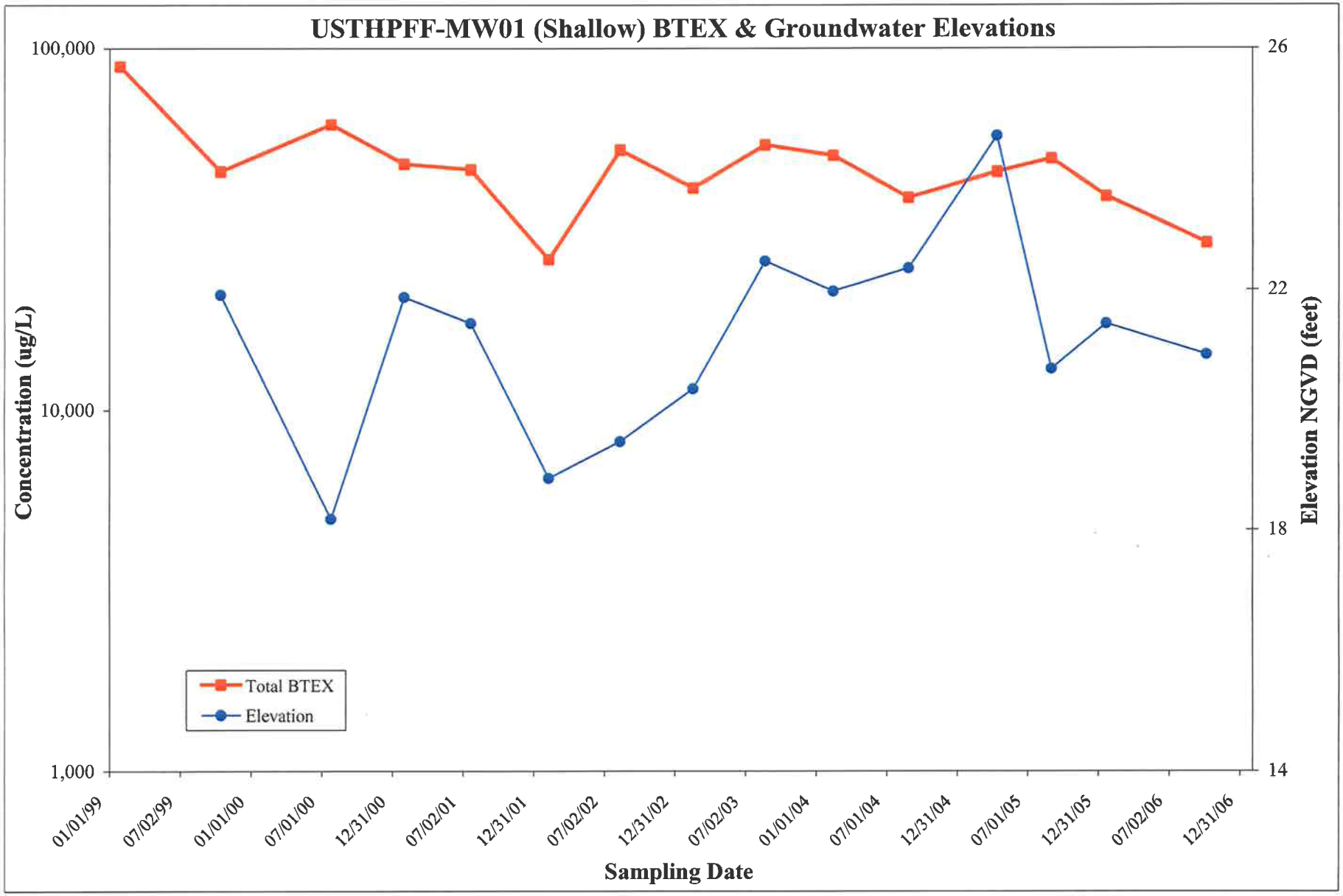

UST1115GT-MW07 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

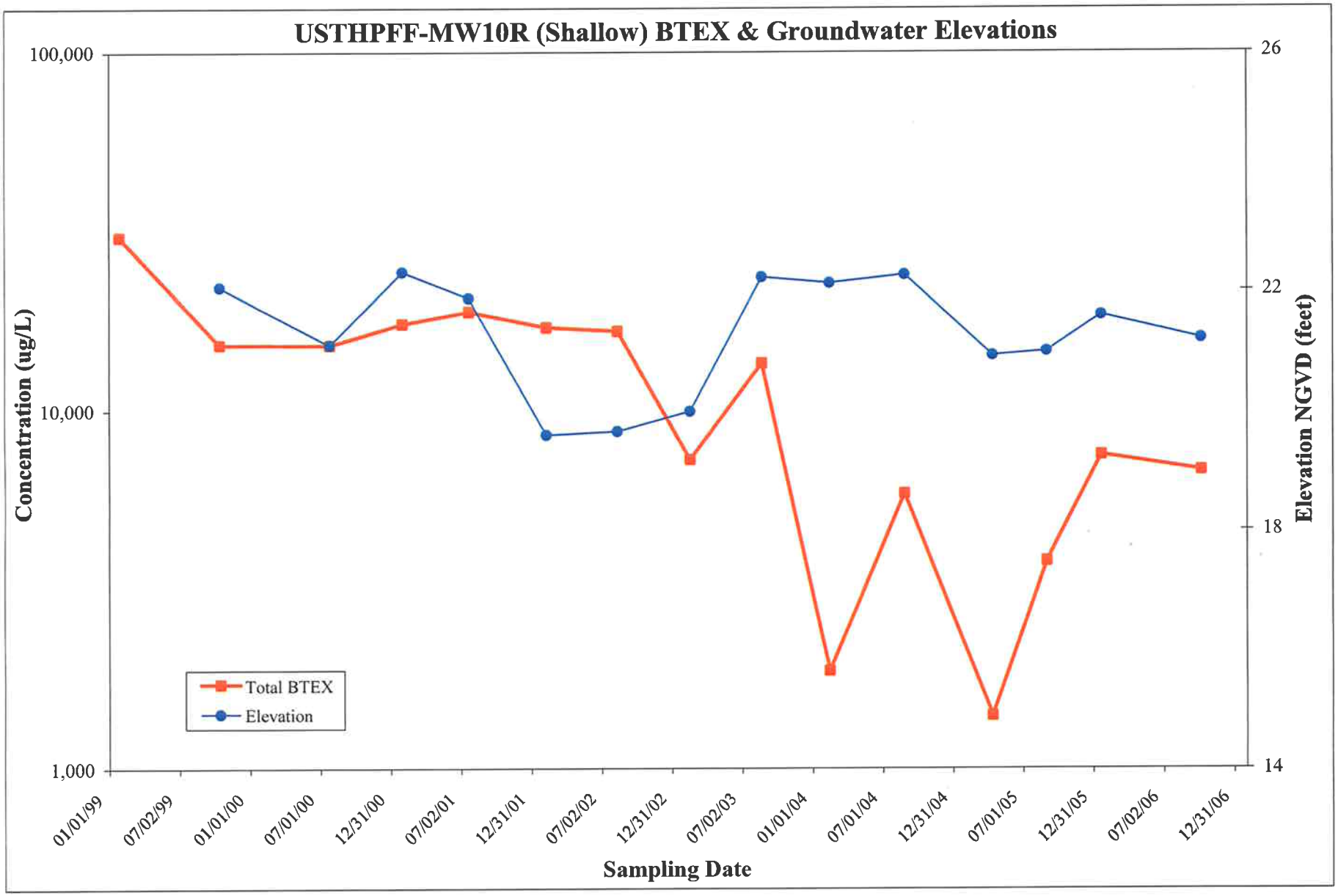

UST1115GT-MW09 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

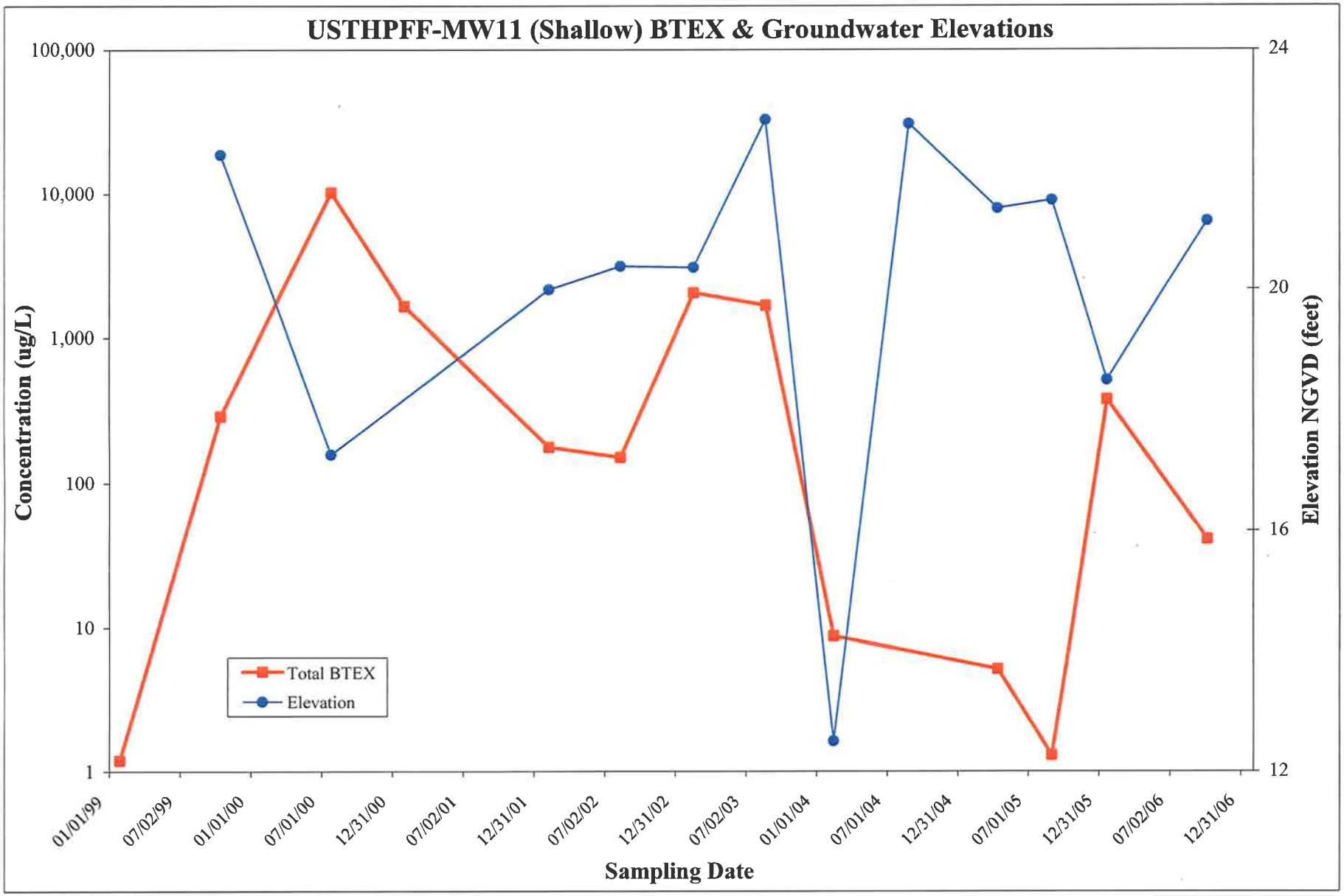

USTHPFFC-MW01 (Shallow) BTEX & Groundwater Elevations
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
Total BTEX
Elevation
300
200
100
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06


USTHPFFC-MW19 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

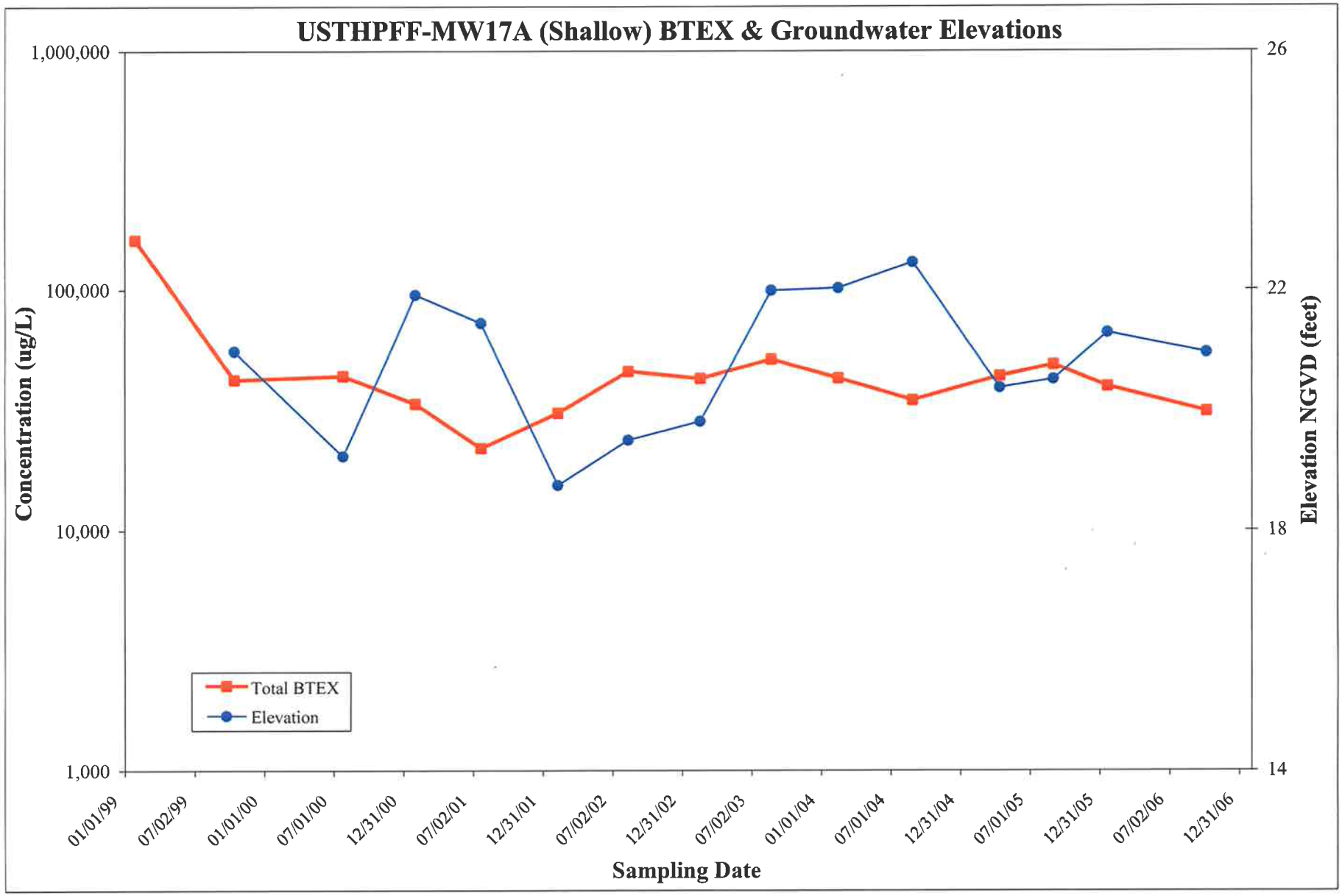

USTHPFFC-MW20 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

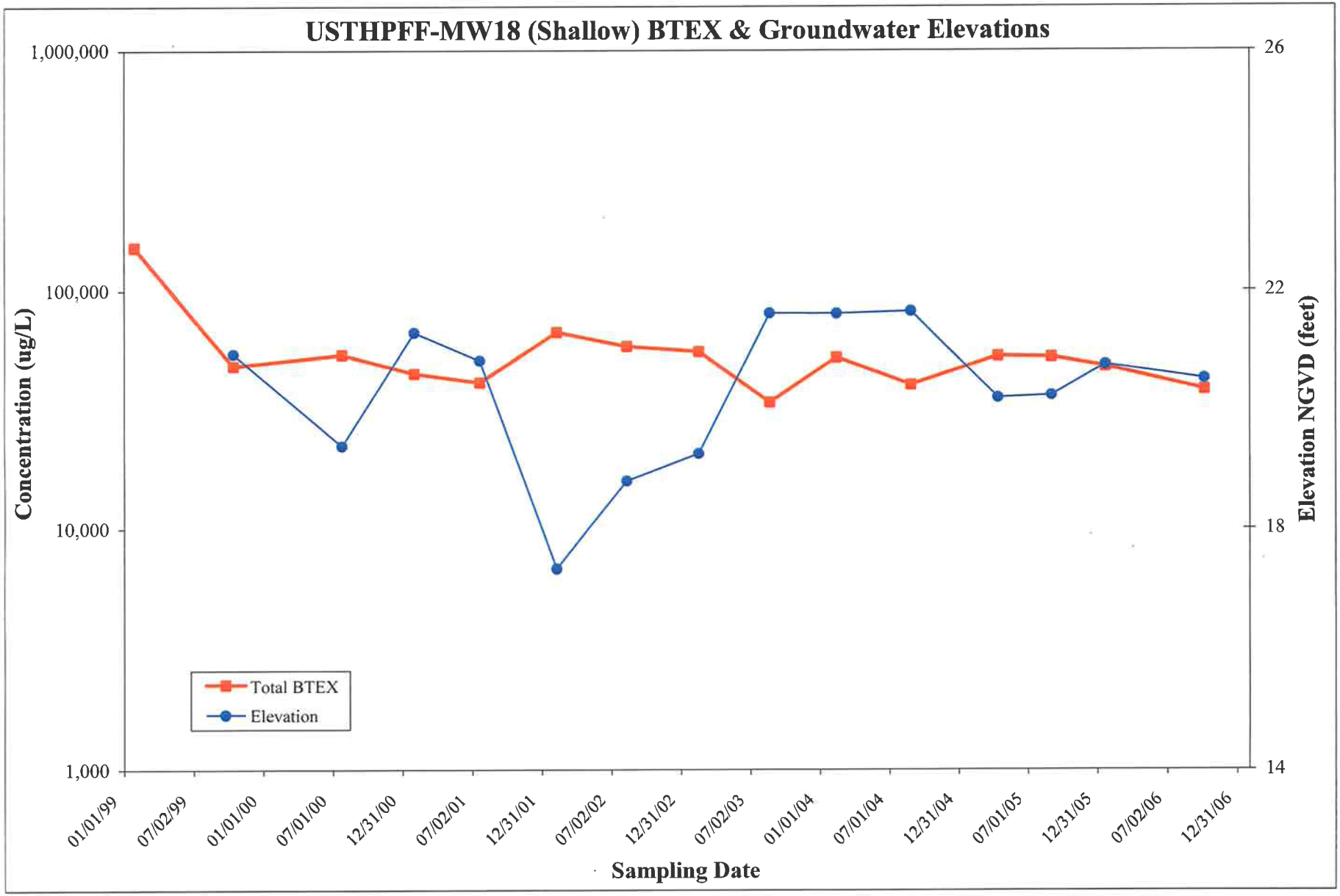

USTHPFF-MW01 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

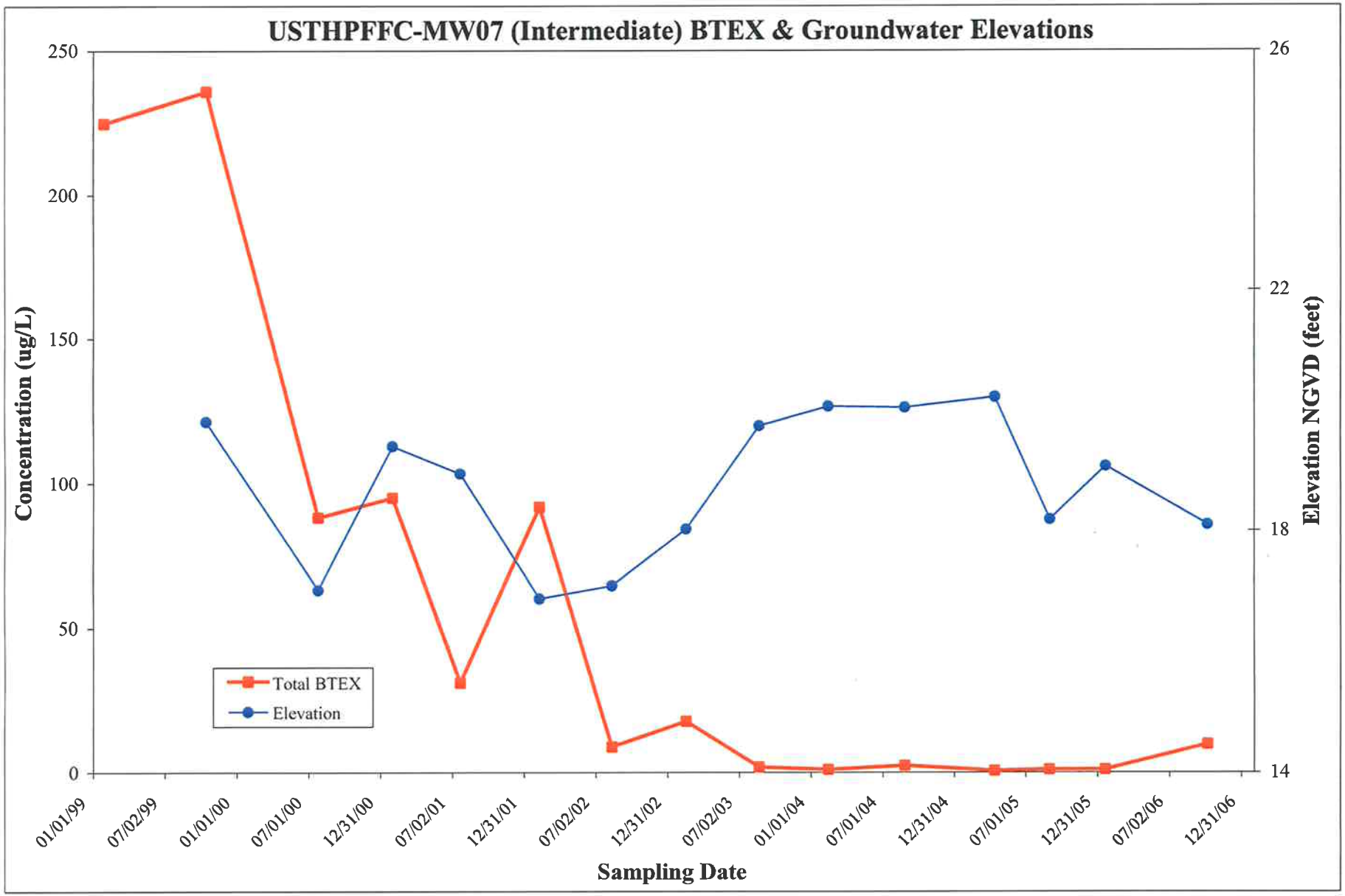

USTHPFF-MW10R (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

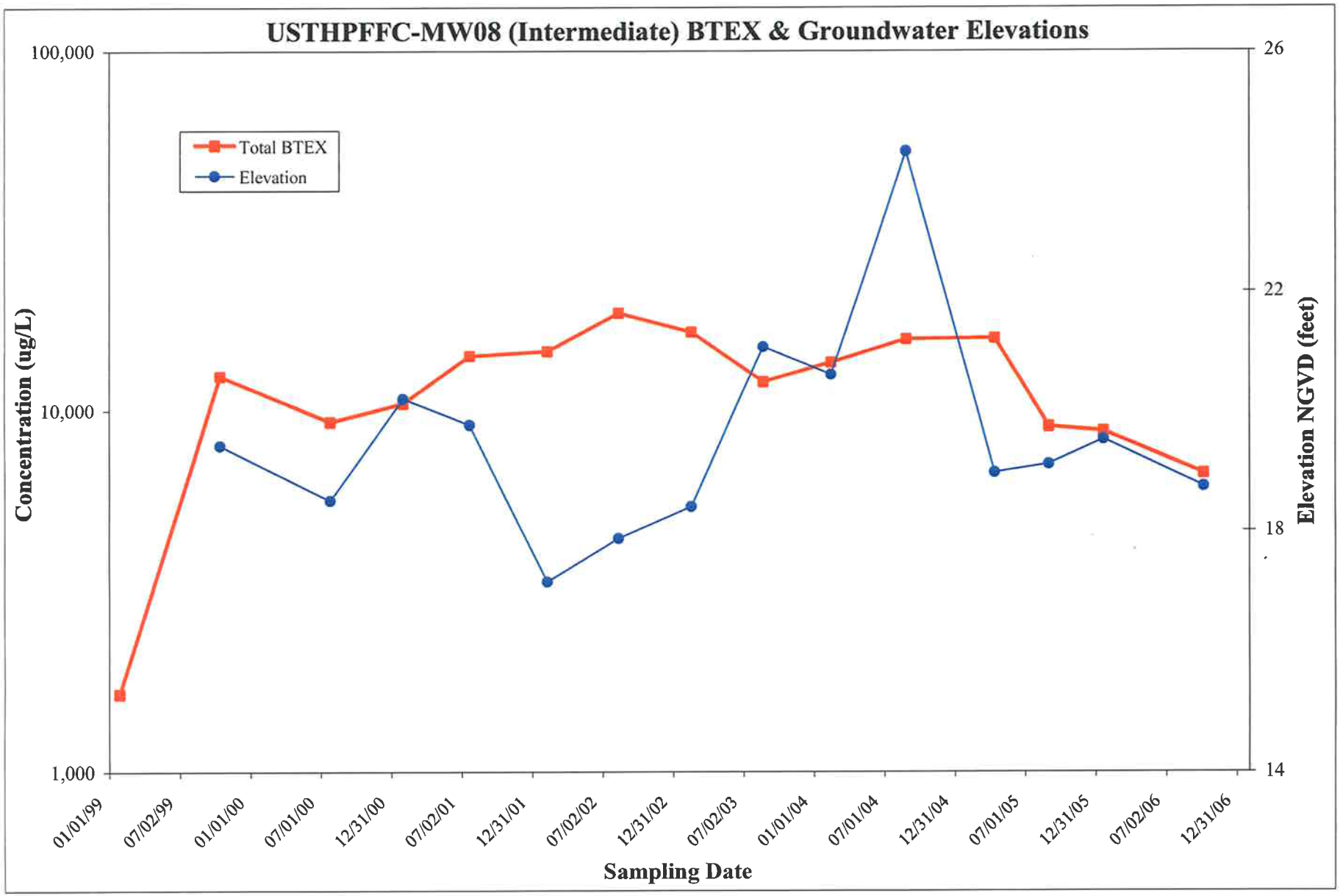


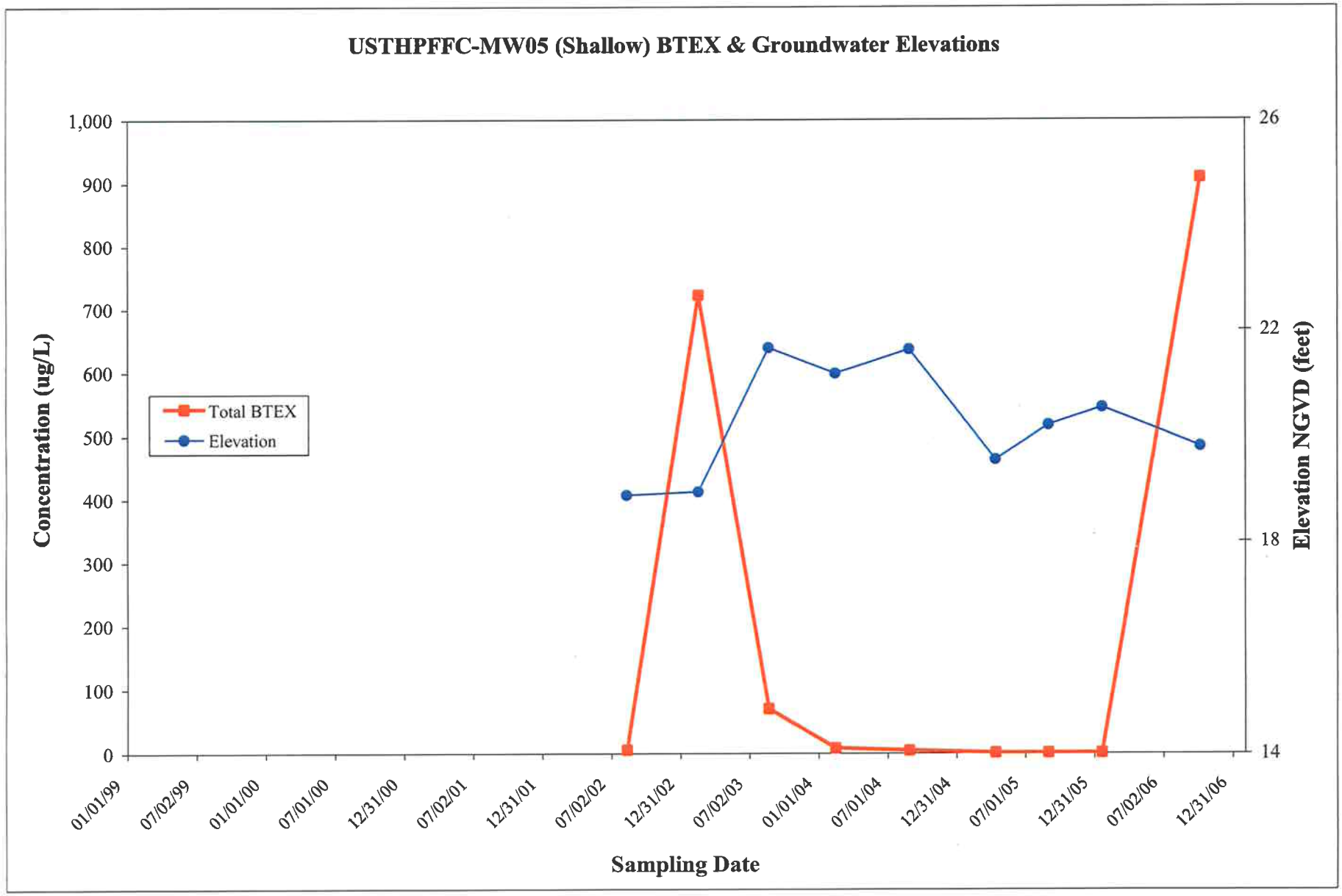
MW-11 not sampled in August 2004

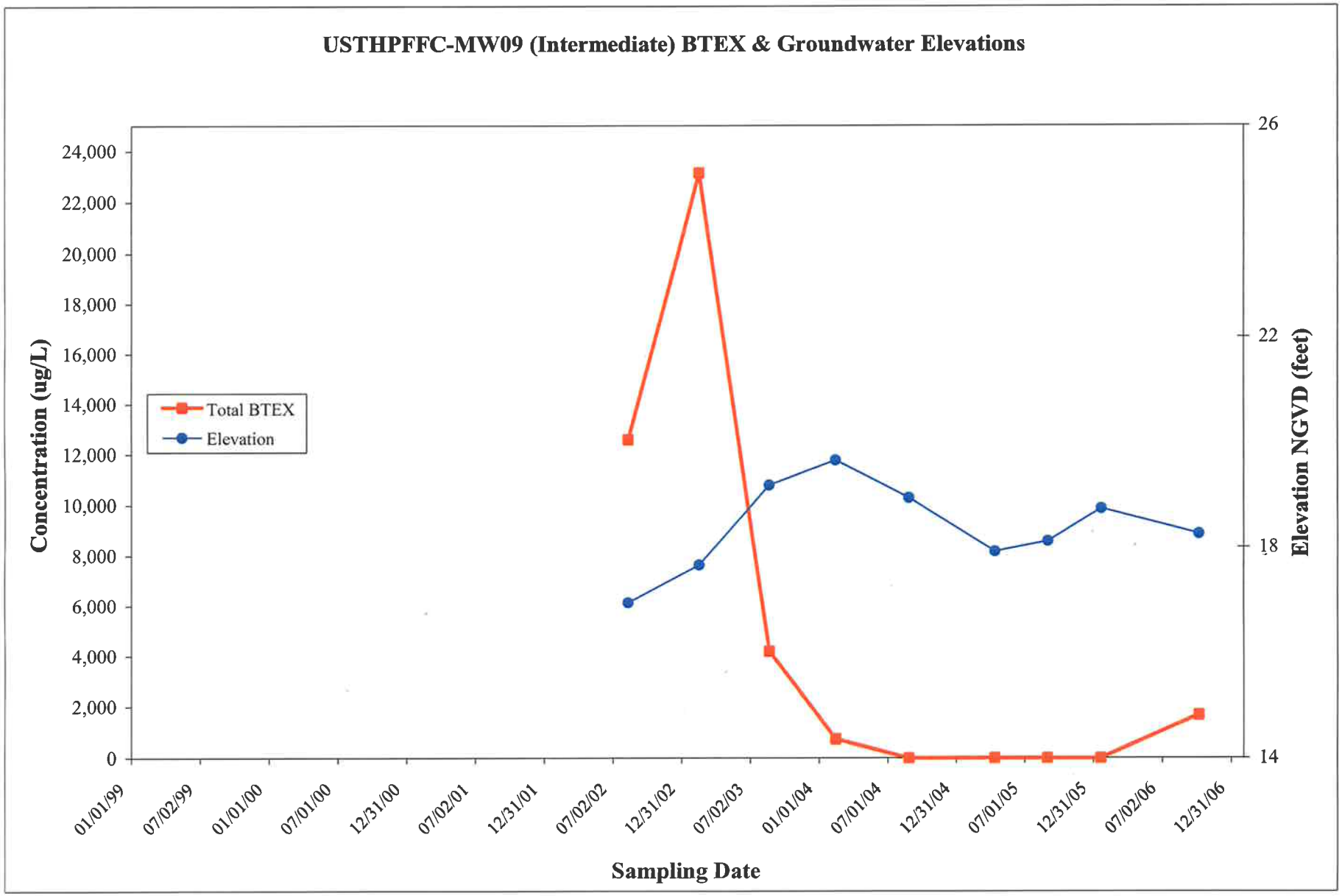

USTHPFF-MW17A (Shallow) BTEX & Groundwater Elevations
1,000,000
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

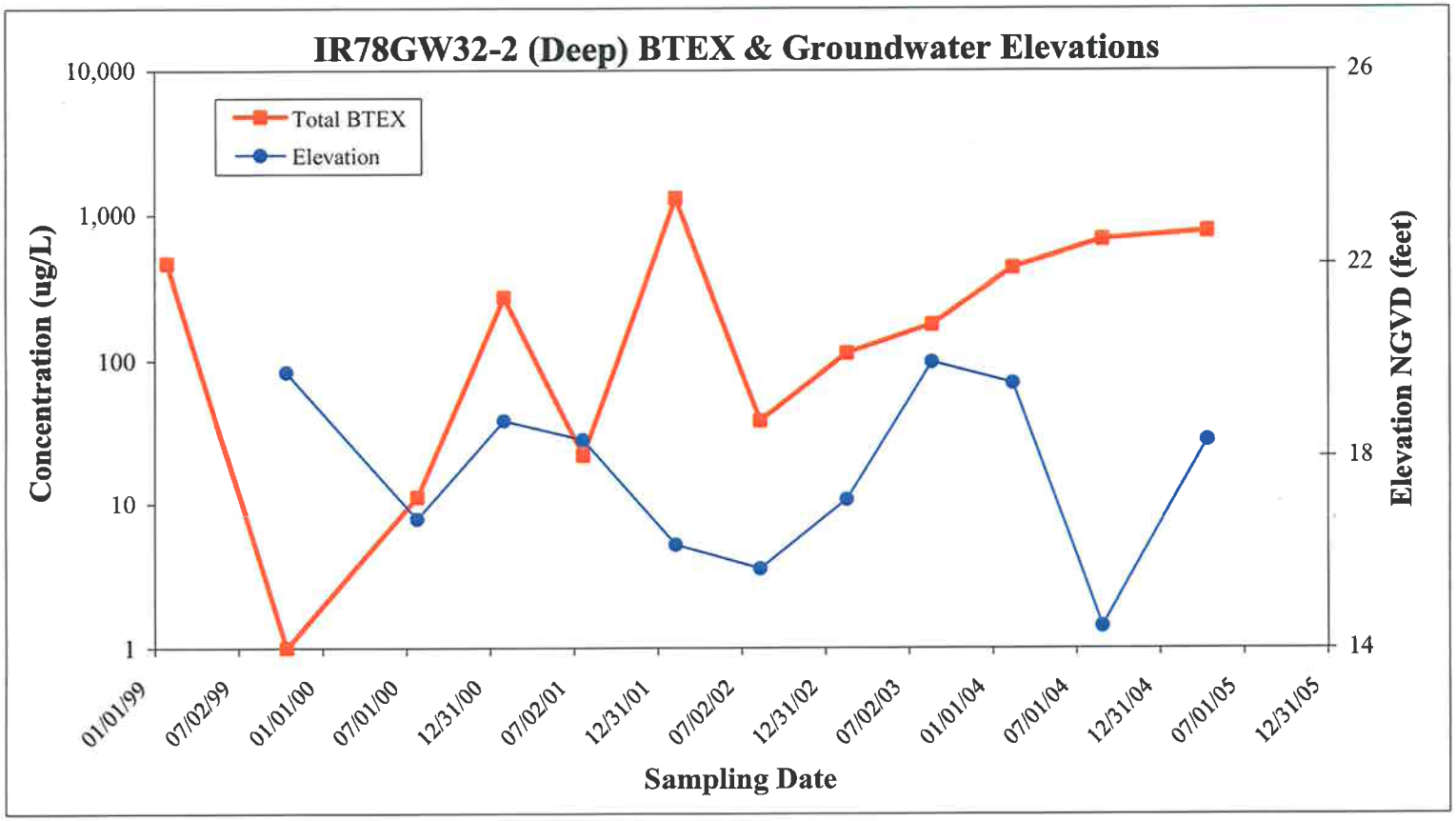

USTHPFF-MW18 (Shallow) BTEX & Groundwater Elevations
1,000,000
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date

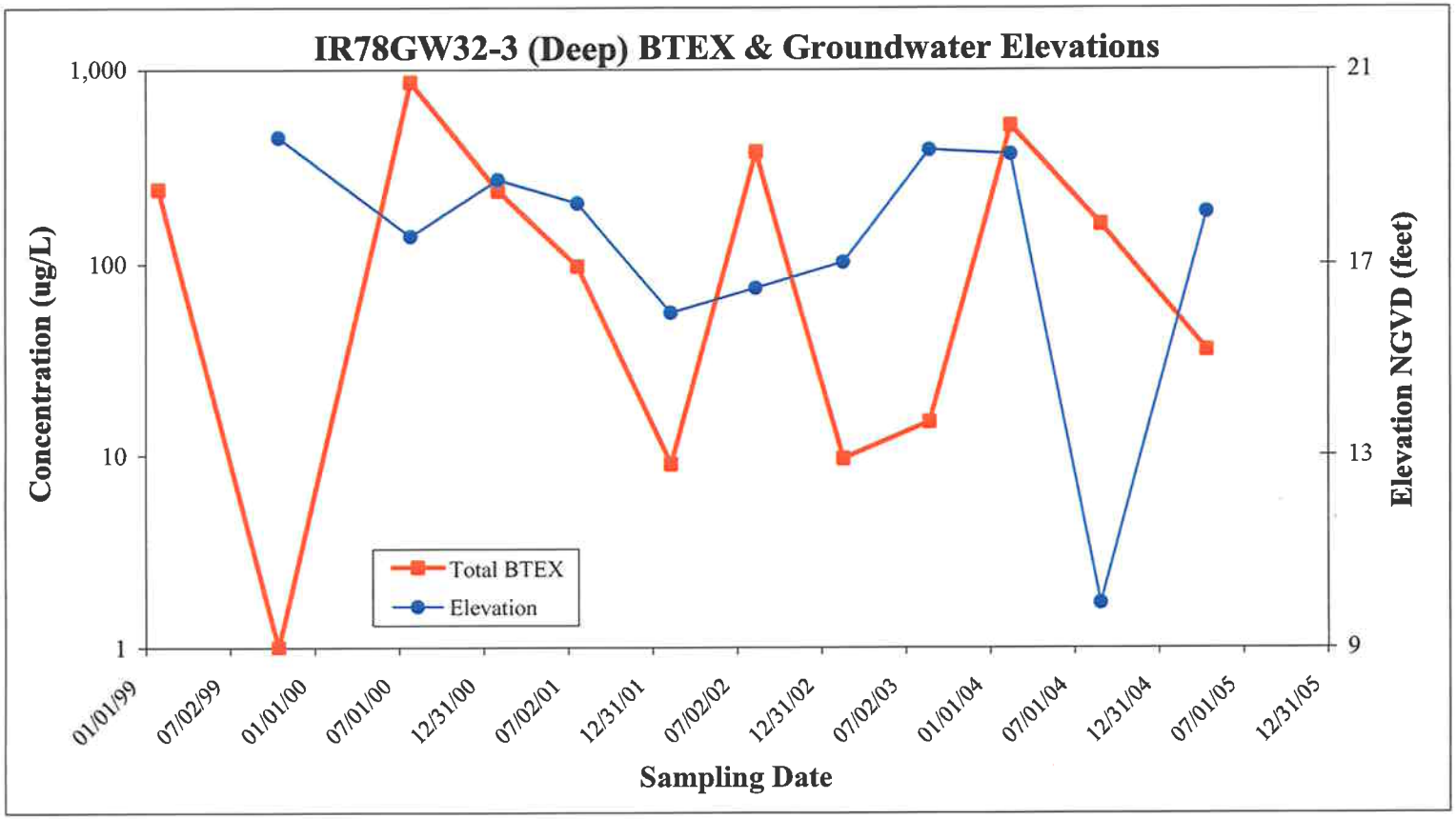

USTHPFFC-MW07 (Intermediate) BTEX & Groundwater Elevations
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
Total BTEX
Elevation
250
200
150
100
50
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06


USTHPFFC-MW08 (Intermediate) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
100,000
10,000
1,000
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date


USTHPFFC-MW05 (Shallow) BTEX & Groundwater Elevations
Concentration (ug/L)
1,000
900
800
700
600
500
400
300
200
100
0
Total BTEX
Elevation
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date


USTHPFFC-MW09 (Intermediate) BTEX & Groundwater Elevations
Concentration (ug/L)
24,000
22,000
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Total BTEX
Elevation
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
07/02/06
12/31/06
Sampling Date


IR78GW32-2 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date


IR78GW32-3 (Deep) BTEX & Groundwater Elevations
Concentration (ug/L)
1,000
100
10
1
Elevation NGVD (feet)
21
17
13
9
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date