2007-2008 ANNUAL MONITORING REPORT
BUILDING 820
MARINE CORP BASE, CAMP LEJUENE
ONSLOW COUNTY, NORTH CAROLINA

Prepared for:

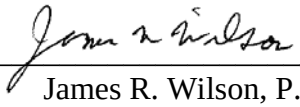
DEPARTMENT OF THE NAVY

Naval Facilities Engineering Command, Mid-Atlantic
Marine Corps North Carolina IPT
Environmental Business Line
9742 Maryland Avenue
Norfolk, VA 23511-3095

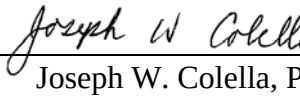
Prepared by:

Shaw Environmental, Inc.
500 East Main Street, Suite 1360
Norfolk, Virginia 23510

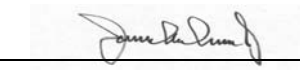
Reviewed by:



James R. Wilson, P.G.
Licensed Geologist Number 2069



Joseph W. Colella, P.E.
Project Manager



James A. Dunn, Jr., P.E.
Program Manager

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LIST OF ACRONYMS AND ABBREVIATIONS

AS	Air Sparge
bls	below land surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Corrective Action Plan
COCs	Contaminants of Concern
DRO	TPH-Diesel Range Organics
EPA	Environmental Protection Agency
GRO	TPH-Gasoline Range Organics
LAW	Law Engineering and Environmental Services
Lb/day	Pounds per day
MCB	Marine Corps Base
mg/L	milligrams per liter
MTBE	Methyl Tert-Butyl Ether
mV	Millivolt
MW	Monitoring Well
NCAC	North Carolina Administrative Code
NGVD	National Geodetic Vertical Datum
NTUs	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
PAH	Polynuclear Aromatic Hydrocarbon
SVE	Soil Vapor Extraction
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
µg/L	micrograms per liter
umhos	Micromhos
UST	Underground Storage Tank
VOAs	Volatile Organic Analysis
VOHs	Volatile Organic Halogens

TITLE PAGE

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

UST Incident Number: 23135

ID Number: Not Applicable

Risk Classification: Intermediate

UST Owner: Commanding General, MCB
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-5068

UST Operator: Commanding General, MCB
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-5068

Primary Responsible Party Contact: Johanna E. Arnold, PhD.
Environmental Control Specialist
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-9114

Date of Release: Unknown
Quanity of Release: Unknown
Source of Release: USTs/Line Leak
Latitude and Longitude: 34º 42’ 0.662077” N
77º 21’ 16.0669” W

Tank Number	Installation Date	Tank Capacity	Tank Dimensions	Last Contents	Previous Contents
820-1	Unknown	10000	Unknown	Gasoline	Unknown
820-2	Unknown	10000	Unknown	Gasoline	Unknown
820-3	Unknown	10000	Unknown	Gasoline	Unknown
820-4	Unknown	10000	Unknown	Diesel	Unknown

1.0 *INTRODUCTION*

This Annual Monitoring Report (AMR) describes the performance results and groundwater analytical results for the period from June 2007 to May 2008 of the Air Sparge (AS)/Soil Vapor Extraction (SVE) treatment system installed at Building 820 located at Marine Corps Base (MCB) Camp Lejeune, North Carolina.

In the early 1990s, several environmental investigations were carried out in the vicinity of Building 820. Type II wells were installed to investigate the presence of free product and dissolved contaminants in shallow groundwater. Type III wells were installed to investigate conditions deeper in the aquifer at depths as great as 50 feet bls.

The current air sparge/soil vapor extraction AS/SVE system was installed to remediate the release of petroleum constituents in the soil and groundwater. This report is submitted in accordance with the requirements of the *Corrective Action Plan (CAP)* dated October 29, 1996, as well as *Groundwater Section Guidelines for Assessment and Corrective Action, North Carolina, Underground Storage Tanks*, published by the State of North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, UST Section, dated April 2001.

This AMR provides a brief overview of the environmental history of the site, summarizes the various CAPs prepared for the site, and describes the installation and operation of the recommended remedial alternative of the CAPs. This AMR provides a discussion of monitoring results of system operation and the current status of groundwater quality compared to baseline data and project remediation goals. This AMR also presents conclusions about remedial progress to date and makes recommendations for further site monitoring.

1.1 CAMP LEJEUNE MARINE CORPS BASE LOCATION AND DESCRIPTION

Located in Onslow County, North Carolina, MCB Camp Lejeune is a training base for the United States Marine Corps. The MCB covers approximately 236 square miles (153,000 acres) and includes 14 miles of coastline. MCB Camp Lejeune is bounded to the southeast by the Atlantic Ocean and to 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 MCB (*Figure 1.1).*

1.2 BUILDING 820 SITE DESCRIPTION

Building 820 is located in the Berkeley Manor residential area of the MCB, Camp Lejeune, Onslow County, North Carolina (*Figure 1.2*). The site is located on the west side of Stone Street. The site is determined to be a Category B site under the North Carolina's Site Priority Ranking System.

Building 820 is an active Marine Corps Exchange gas station. Four underground storage tanks (USTs) are located south of the building. These include three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. The USTs were upgraded in the summer of 1995.

1.3 SITE GEOLOGY/HYDROGEOLOGY

The project area is dominated by relatively flat topography gently sloping to the south toward Wallace Creek and west toward New River. Much of the area immediately surrounding Building 820 consists of asphalt parking lot with wooded areas to the west and south and residential areas to the east. The nearest mapped bodies of surface water are New River approximately one mile to the west and Wallace Creek approximately one mile to the south. Surface water runoff from the site is diverted into a network of storm drains located at the site. Storm water collected by this system of drains ultimately discharges to the New River.

Sediment and stratigraphy in the vicinity of the site indicates that near surface soils within 6 to 8 feet below land surface (bls) generally consist of sandy clays to clayey fine sands with occasional fine sand or clay lenses. Below the surficial material, soils generally consist of relatively clean, fine to medium sands to a depth of approximately 50 feet.

The groundwater aquifer is classified as a Class GA groundwaters according to the North Carolina Administrative Code (NCAC) Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. Depth to groundwater currently ranges from 12 to 19 feet bls in shallow Type II monitoring wells and 13 to 21 feet bls in 50-feet deep Type III monitoring wells. In general, the direction of the shallow groundwater flow at the site is to the south, while the deeper groundwater zone (i.e., 50 feet bls) flow is variable.

2.0 CONTAMINATION INVESTIGATION HISTORY

2.1 BUILDING 820 AREA

The original release was discovered when Jones and Frank pressure tested the UST's for tightness in 1990. UST Numbers 2 and 4 failed the pressure test. In 1991, ATEC Associates, Inc. installed four monitoring wells to investigate the groundwater beaneath the site. Sampling and analysis of the groundwater indicated that the groundwater beneath the site was contaminated with petroleum constituents in excess of the North Carolina Groundwater Quality Standards (GWQS). In addition, 0.2 feet of free-phased gasoline was detected in MW-2. In December 1992 Law Engineering (Law) installed five Type II and two type III wells and then reported their findings in their report "Leaking Underground Storage Tank (LUST) Site Assessment Report". In March 1994 Law installed ten additional Type II and five type III wells to delineate the hydrocarbon plume at the site and reported their findings in the Addendum to the LUST Site Assessment Report.

Petroleum constituents were detected in both the shallow (Type II) and deep (Type III) wells. Plumes of dissolved petroleum constituents in excess of North Carolina Groundwater Quality Standards (NCGWQS) were identified in both zones. These constituents included benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl tertiary butyl ether (MTBE).

In both zones, the plumes appeared to originate from the vicinity of the USTs. In the shallow zone (0-50 ft-bgs), the plume extends approximately 250 feet to the south. In the deep zone (>50 ft-bgs) the plume extends 300 feet north to northwest (the inferred direction of groundwater flow). Near the point of origin, the concentration of dissolved total BTEX was initially detected at concentrations as high as 157,500 micrograms per liter (µg/L). This concentration is near the saturation level for these compounds. A passive free product recovery system installed at the site recovered approximately 43 gallons of free product from March 1994 through February 1997.

In response to a NCDENR request dated June 8, 2001, additional soil samples were collected in the vicinity of the fuel dispensers and fuel lines. The samples were analyzed for the presence of hydrocarbons by Environmental Protection Agency (EPA) Method 5035/8015B and by MADEP Methods for VPH. All soil analytical results were below

the NCDENR guidelines. A letter report presenting results of the soil investigation requested by the June 8, 2001 letter was submitted on August 24, 2001.

2.2 CORRECTIVE ACTION PLAN

Law Engineering and Environmental Services, Inc. (LAW) prepared a Corrective Action Plan (CAP) dated October 29, 1996. Two potential receptors were identified at greatest apparent risk. One consists of two tributaries of Wallace Creek located approximately 1,500 feet south of the site. The other potential receptor is a drinking water supply well (well HP-623) located approximately 1,300 feet northeast of the site (*Figure 1.2*).

Several remedial objectives were developed for the site. They were:

- Primary Source(s): Eliminate future releases through closure or integrity testing and upgrading the existing UST system at Building 820.
- Secondary Sources:
  - i) Free Product: Remove free product to less than or equal to 1/8 inch as measured in free product recovery wells and groundwater monitoring wells.
  - ii) Vadose Zone Soil Contamination: Reduce TPH in soil to 10 part per million (ppm) as measured by EPA Method 5030 (TPH-Gasoline Range Organics [GRO]) and 40 ppm as measured by EPA Method 3550 (TPH-Diesel Range Organics [DRO]).
- Dissolved-phase Groundwater Contamination: Restore groundwater to quality consistent with North Carolina groundwater quality standards. *Table 2.1* presents the Site Rehabilitation Goals which includes analytes of concern and their respective target concentrations in groundwater.
- Receptor Protection: Monitor surface waters in Wallace Creek tributaries to ensure that no violation of North Carolina surface water quality standards occurs due to this release.

LAW evaluated two alternative remedial strategies for the site. A soil vapor extraction (SVE) and an air sparge (AS) pilot test were conducted east of Stone Street in the vicinity of monitoring wells UST820-MW07 and UST820-MW08. Based on these studies, LAW recommended a combination of treatment technologies to meet the remedial goals at the site. These technologies included:

- Four fields of AS wells. The AS wells would be installed in areas displaying high concentrations of dissolved-phase petroleum constituents to remediate these constituents and prevent further migration of the plume. Their screened intervals would be placed from 47 to 50 feet bls to remediate the dissolved petroleum constituents in the Type II and Type III well zones.

- Four fields of SVE wells, with an individual SVE point located near each AS well. The SVE wells would remove any residual free product, capture fugitive emissions resulting from the air sparging, and remediate any adsorbed-phase petroleum in that portion of the vadose zone within each well's radius of influence.

The CAP estimated that the system would have to operate for 20 years from startup to successfully remediate the dissolved groundwater plume. Following approval of the CAP, the AS/SVE portion of the system was installed in 1997. The system was placed in operation during October 1997. The locations of the well fields and the treatment compound are shown in *Figure 2.1*.

2.3 REMEDIAL ACTION OPTIMIZATION AND REVISED CAP

CATLIN Engineers and Scientists (CATLIN) submitted a CAP Addendum entitled "*Remedial Action Optimization* and *Revised Corrective Action Plan Building 820"* dated February 24, 2004 to the NCDENR. The addendum was prepared to present the results of a thorough review of available reports and field data since the AS/SVE remedial system was placed in operation as well as a field reconnaissance and interviews with the system operators.

The potential receptors were re-evaluated during preparation of the CAP Addendum 2004 using the North Carolina Risk Classification and Land Use Form. Based on the risk characterization, it was determined that the site meets the criteria to be classified as an Intermediate Risk and Residential Land Use site. A receptor survey performed during the risk characterization identified the following receptors within 1,500 feet of the site:

- Potable water supply well 623 located approximately 1,300 feet northeast of the site.
- A tributary of Wallace Creek located approximately 1,200 feet southeast of the site.

The site is located in an area in which there is potential recharge to the deeper aquifer being used by the potable supply well. The Well Head Protection Plan Update (2002) stated water supply well 623 is 197 feet deep with the pump depth set at 70 feet bls.

- The site is located within a potential well head protection area.
- The closest residence is approximately 400 feet east of the site.
- A Youth Sports and Activities Center and a playground are located approximately 300 feet from the site.
- Athletic fields associated with a middle school are located approximately 500 feet northeast of the site.

Based on information provided by MCB Camp Lejeune, these potential receptors have not been adversely affected by the potentially contaminated soil and/or groundwater. The water supply well 623 was shut down on July 14, 2005 and was sampled in December 2005. Analytical results yielded non-detect results for volatile organic compounds using EPA Method 524.2 during the sampling event.

The intermediate risk is based on the location of the potable water supply well 623 and the deep groundwater contamination at the site. This ranking revises the target cleanup goals for soil to Residential or Soil-to-Groundwater (whichever is lower) Maximum Soil Contaminant Concentrations (MSCCs). Groundwater target cleanup goals remain unchanged from the original CAP (i.e., 2L GWQS). A Notice of Residual Petroleum was not required for the site at this time.

Recommendations of the CAP Addendum 2004 included:

- Collection of soil samples from the capillary fringe at six locations for Risk Based Analysis.
- Shutting down a portion of the current groundwater remediation system.
- Semi-annual groundwater sample collection from shallow monitoring wells UST820-MW08, UST820-MW10, UST820-MW14, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24 and UST820-MW26. The groundwater samples were to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- Install two 50-feet deep Type III monitoring wells.
- Shutdown and properly abandon water supply well 623.

- Semi-annual groundwater sample collection from deep monitoring wells UST820-MW07, UST820-MW19, UST820-MW21, UST820-MW23, UST820-MW25, plus the two additional deep monitoring wells UST820-MW28 and UST820-MW29. The groundwater samples are to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- The remaining shallow monitoring wells UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW05, UST820-MW06, UST820-MW11, UST820-MW12, UST820-MW13, UST820-MW15, UST820-MW16 and UST820-MW27 should be sampled on a semi-annual basis for one year. The groundwater samples are to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- Semi-annual groundwater sample collection from deep monitoring well UST820-MW9D. The groundwater sample will be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

Per the CAP Addendum 2004 recommendations, in June 2004, 29 of the 48 AS/SVE wells were shut down to more effectively remediate the groundwater contamination above the 2L GWQS with the remaining wells. The AS / SVE well locations are shown in *Figure 2.1*.

2.4 CORRECTIVE ACTION PLAN ADDENDUM 2004 SOIL AND GROUNDWATER CONTAMINATION ASSESSMENT

During April 2005, Shaw Environmental, Inc. followed the CAP Addendum 2004 recommendations by collecting soil samples from the capillary fringe (10 feet below land surface) at six locations that were identified in the CAP Addendum 2004. The samples were analyzed for VOCs using EPA Method 8260B with IPE and MTBE, SVOCs using EPA Method 8270C plus 10 highest peaks, MADEP-EPH, and MADEP-VPH. In addition, Shaw installed two Type III (50 feet deep) monitoring wells (UST820-MW28 and UST820-MW29). Groundwater samples were collected from the two new wells and were analyzed for VOCs using EPA Method 8260B, SVOCs using EPA Method 8270C, MADEP-EPH, and MADEP-VPH.

Laboratory analytical results for the soil samples did not detect regulated hydrocarbon compounds in excess of North Carolina Residential, Industrial or Soil-to-Groundwater Maximum Soil Contaminant Concentrations. Results of the April 2005 soil assessment work were provided in a report by Shaw Environmental, Inc. titled "Soil Contamination Report, Building 820, Camp Lejeune, North Carolina", dated June 2005. Shaw also recommended that No Further Investigation of the soil at Building 820 site was required based on the results of the April 2005 soil assessment.

Groundwater analytical results from the two 50 feet deep Type III monitoring wells detected benzene, MTBE and chloroform at concentrations in excess of North Carolina 2L GWQS. Based on the results of the additional assessment work it was determined that additional contamination assessment work would be required to delineate the horizontal extent of groundwater contamination in the 50-foot depth interval. CATLIN installed four additional deep Type III wells (UST820-MW30 through UST820-MW33) to 50 ft-bls in November 2005 and one 100 ft-bgs Type III well (UST820-MW34) in January 2006 for the additional assessment. Groundwater samples obtained from these wells indicated that the horizontal and vertical extent of dissolved contamination was now contained within the monitoring well network. In addition, potable supply well 623 was shut down on July 14, 2005 and is currently not being used.

2.5 REMEDIAL ACTION OPTIMIZATION AND REVISED CAP ADDENDUM REPORT

CATLIN submitted a CAP Addendum to the NCDENR titled "*Remedial Action Optimization* and *Revised Corrective Action Plan Addendum Report Building 820"* dated March 20, 2006. The addendum was prepared to provide relevent information to update the RAO & RCAP and review the effectiveness of the current remedial actions being conducted at Building 820. This report also included the delineation assessment of the horizontal extent of the 50-foot deep groundwater contamination in the downgradient direction and the vertical extent of the 100-foot deep groundwater contamination.

Recommendations of the Revised CAP Addendum included:

- Continue operation of the current AS/SVE system until the remediation end points are met.
- In conjunction with the active AS/SVE system, utilize the natural processes of attenuation and degradation to address dissolved contamination at 50 ft-bgs. An

evaluation of this process will be performed by sampling the wells on a semi-annual basis for two years.

- Monitor the groundwater in both the shallow monitoring wells and the 50-feet deep monitoring wells until contaminant concentrations are at or below the 2L GWQS.

3.0 AS/SVE REMEDIAL SYSTEM OPERATION AND RESULTS

3.1 AS/SVE SYSTEM OPERATION

System operation began in October 1997 and has continued through April 2008. During the first 15 months of operation, the AS/SVE fields were operated alternately to attempt to optimize the initial remediation. Since that time, all fields have been operated concurrently. On occasion, it had been necessary to intermittently shut down one or more fields (most commonly Fields 1 and 3) due to the effect of high groundwater conditions on SVE operations (i.e., groundwater entrainment). In June 2004, 29 of the 48 AS/SVE wells were shut down GWQS as recommended in the revised CAP. This was done to more effectively remediate those wells for which groundwater contamination remained above the 2L GWQS. The operating and inactive AS/SVE wells are shown in *Figure 2.1*.

This report discusses the system's operation and the monitoring results collected from May 2007 through April 2008. During this 2007-2008 operating time period no significant downtimes (exceeding one to three days at a time) occurred. Minor downtime periods occurred as a result of routine maintenance and groundwater monitoring events. The remedial system was in operation a total of 342 days during May 2007 through April 2008 for an operational efficiency of 94 percent.

An operational and maintenance schedule has been established to obtain consistent system measurements and notes on system performance on the AS/SVE equipment compound. With the exception of some holidays and severe short duration storms, the AS/SVE equipment compound was essentially inspected every weekday that the system was in operation. During the site inspection, a checklist is used to record operational measurements and conditions, such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve position. This information is used to identify areas requiring maintenance (such as filter replacement) and to fine-tune system operation.

During the period May 2007 through April 2008, the AS/SVE fields were inspected weekly. Included in this work was an inspection of each well vault. System components were checked and measurements such as vacuum, air velocity, and temperature were recorded. As with the equipment compound, these inspections helped to identify

maintenance needs. Expanded compound measurements, including specific recovery conditions, were recorded concurrently with the weekly inspection of well vaults.

3.2 AS/SVE SYSTEM MONITORING RESULTS

Hydrocarbon recovery for the system is calculated from system operational parameters such as organic vapor concentrations, exhaust stack pressure, velocity, and temperature. These parameters are used to calculate the cumulative mass of hydrocarbons recovered.

Operational data collection for the AS/SVE system began on October 28, 1997, and has continued at regular intervals to the present. For purposes of this report, system operation data and results have been reviewed from startup through May 31, 2008. Within this period of operation, the system has recovered a cumulative mass of 21,206 pounds of hydrocarbons. From May 2007 through April 2008, approximately 345 pounds of hydrocarbons were recovered by the remedial system. This is an increase from 131 pounds of hydrocarbons recovered in 2006-2007. Hydrocarbon vapor recovery data is provided in *Table 3.1* and graphically presented in *Table 3.2*.

During system operation, hydrocarbon recovery rates ranged from 5.5 pounds per day (lbs/day) to <1 lb/day. The average recovery rate increased from 0.36 lbs/day observed in 2006-2007 to 0.95 lbs/day observed in 2007-2008. This is probably due to the drop of 3 to 5 feet in the water table since the last sampling event in October 2006. This drop increased the vadose zone above the water table, which increased the mass of hydrocarbons recovered at the site. No major changes were made to the system configuration from May 2007 through April 2008.

4.0 GROUNDWATER MONITORING METHODS AND RESULTS

Groundwater elevations at select monitoring wells were measured during the groundwater sampling event (October 2007). *Table 4.1* presents groundwater elevation data dating back to August 2005. *Figure 4.1* presents groundwater elevation contour maps from the October 2007 sampling event of the Type II (shallow) wells; while *Figure 4.2* presents groundwater elevation contour maps from the October 2007 sampling event of the Type III (deep) monitoring wells. The October 2007 groundwater elevations, on average, decreased 3 to 5 feet from levels in October, 2006, due to the drought in the southeast part of the United States.

Groundwater samples from select monitoring wells at the site were collected for analysis in October 2007. The groundwater sample collection field logs are provided in *Appendix A.*

4.1 GROUNDWATER ELEVATION MEASUREMENTS

4.1.1 OCTOBER 2007 GAUGING EVENT

In October 2007, the depth to groundwater from top of casing was gauged in 19 Type II monitoring wells at the site. The depth to groundwater ranged from 12.21 feet bls in monitoring well UST820-MW11 to 19.38 feet below land surface (bls) in monitoring well UST820-MW22. Groundwater elevations ranged from 11.08 feet National Geodedic Vertical Datum (NGVD) in monitoring well UST820-MW08 to 17.16 feet NGVD in monitoring well UST820-MW15. No detectable thickness of free product was observed in any of the 19 wells.

Depth to groundwater was also measured in 14 Type III monitoring wells. The depth to groundwater ranged from 13.62 feet bls in monitoring well UST820-MW28 to 21.10 feet bls in monitoring well UST820-MW33. Groundwater elevations in the 14 wells ranged from 10.20 feet NGVD in monitoring well UST820-MW33 to 15.23 feet NGVD in monitoring well UST820-MW28.

4.2 GROUNDWATER SAMPLING AND ANALYSIS

4.2.1 OCTOBER 2007 GROUNDWATER ANALYTICAL RESULTS

Groundwater sample collection and analysis was performed at 19 Type II monitoring wells (UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW05, UST820-MW06, UST820-MW08, UST820-MW11, UST820-MW12, UST820-MW13, UST820-MW14, UST820-MW15, UST820-MW16, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24, UST820-MW26, UST820-MW27, and UST820-PW01) on October 15 through October 24, 2007 as recommended in the RCAP. Groundwater sample collection and analysis was not completed at monitoring well UST820-MW10 due to extreme bubbling in the wel; although the AS system was turned off one week before sampling began. The samples were analyzed for VOAs using EPA Method 602, PAHs using EPA Method 625 and lead using SW846-6010B. Of the 19 monitoring wells sampled, the following five wells presented compounds in excess of North Carolina's 2L Groundwater Quality Standards:

- UST820-MW02 [benzene, 6.8 µg/L; and naphthalene 29.5 µg/L]
- UST820-MW03 [benzene, 1.1 µg/L]
- UST820-MW06 [benzene, 65.4 µg/L; ethylbenzene, 1,880 µg/L; total xylenes, 1,890 µg/L; and naphthalene 322 µg/L]
- UST820-MW11 [total xylenes, 1,400 B µg/L; and naphthalene 188 µg/L]
- UST8220-PW01 [benzene, 1.4 µg/L]

Groundwater field parameters and analytical results from the 19 Type II monitoring wells for the October 2007 sampling event are presented in *Tables 4.2 and 4.3,* and *Figure 4.3 (benzene), Figure 4.4 (MTBE), Figure 4.5 (total BTEX), and Figure 4.6 (naphthalene).* The laboratory analytical reports are provided in *Appendix B.*

Groundwater sample collection and analysis was performed at 14 Type III monitoring wells (UST820-MW07, UST820-MW09, UST820-MW09D, UST820-MW17, UST820-MW21, UST820-MW23, UST820-MW25, UST820-MW28, UST820-MW29, UST820-MW30, UST820-MW31, UST820-MW32, UST820-MW33, and UST820-MW34) on October 15 through October 24, 2007. Groundwater sample collection and analysis was not completed at monitoring well UST820-MW19 due to purging dry and not recovering. The AS system was turned off one week before sampling began. The samples were

analyzed for VOAs using EPA Method 602, PAHs using EPA Method 610, and lead using SW846-6010B. Of the 14 monitoring wells sampled, the following four wells presented compounds in excess of North Carolina's 2L Groundwater Quality Standards:

- UST820-MW09 [benzene, 92.6 µg/L; and MTBE, 583 µg/L]
- UST820-MW09D [benzene, 1.2 µg/L]
- UST820-MW17 [benzene, 53.4 µg/L; and MTBE, 2,960 µg/l] and
- UST820-MW28 [benzene, 1.7 µg/L; and MTBE, 740 B µg/l]

Groundwater field parameters and analytical results from the 14 Type III monitoring wells for the October 2007 sampling event are presented in *Tables 4.4 and 4.5,* and *Figure 4.7 (benzene), Figure 4.8 (MTBE),* and *Figure 4.9 (total BTEX), and Figure 4.10 (naphthalene).* The laboratory analytical reports are provided in *Appendix B.*

5.0 CONCLUSIONS

5.1 AS/SVE SYSTEM OPERATION

Twenty-nine of the 48 wells in the AS/SVE system were shutdown in June 2004 in accordance with recommendations presented in the RCAP prepared by CATLIN. The inactive wells included AS/SVE wells 1, 5 through 8, 12 through 14, 21 through 25, 30 through 34, and 38 through 45. The average daily vapor recovery rate of the AS/SVE system increased from 0.36 lb/day observed in 2006-2007 to 0.95 lbs/day observed in 2007-2008. This is probably due to the lowered water table which increased the vadose zone above the water table over the site, which increased the mass of hydrocarbons recovered at the site. Continued operation of the AS/SVE system will reduce adsorbed phase hydrocarbons in subsurface soil and also reduce the dissolved phase contaminants in groundwater at the site.

The AS/SVE remedial system continues to remove dissolved contaminants from the "shallow" surficial aquifer at the site as evidenced by the continued reduction in the dissolved contaminant concentrations observed during this monitoring period. As concentrations of contaminants of concern (COCs) in the "shallow" zone continue to decrease, the deeper zones should begin to demonstrate a similar trend as the release of less contaminated concentrations migrate to the deeper areas in the groundwater.

5.2 GROUNDWATER ELEVATION MEASUREMENTS

Differences in water table elevations from the shallow and deep depth intervals indicate there is a significant downward vertical hydraulic gradient at the site. This downward gradient is probably responsible for the dissolved COCs detected in the Type III monitoring wells that are screened at the deeper depth intervals. In general, this downward vertical gradient has historically been observed MCB wide and has been attributed to base groundwater flow discharging into the New River and water production wells on the MCB.

The Type II well contour map from October 2007 indicates groundwater levels decreased 3 to 5 feet from levels observed in October 2006. However, the overall slope of the groundwater surface remains essentially the same from the previous year. The groundwater surface measured in the Type II wells slopes from a high point at monitoring wells UST820-MW15 toward a low point at UST820-MW08 for the monitoring events in

October 2007. Based on this information, shallow groundwater at the site is inferred to flow to the south with a hydraulic gradient of approximately 0.011 ft/ft in October 2007. A comparison of historical groundwater elevations indicates the groundwater flow in the shallow aquifer has remained in a southerly direction and the contaminants of concern have not migrated significantly any further downgradient in the last ten years.

The groundwater elevation exhibited by the Type III wells during October 2007, sloped from a high point at UST820-MW28 to a low point at UST820-MW23. The deeper groundwater at the site is inferred to flow from north to south similar to the shallow groundwater with a hydraulic gradient of 0.0057 ft/ft in October 2007. The vertical groundwater gradient at this site has a four to five foot change from the shallow wells to the deepest wells which indicates a significant downward trend.

5.3 GROUNDWATER ANALYTICAL CONCLUSIONS

Groundwater sampling and analysis continues to detect dissolved phase hydrocarbon components in groundwater at the site. In general, contaminant concentrations continue to demonstrate a decreasing trend over time. During the October 2006 sampling event, a total of three shallow monitoring wells (UST820-MW06, UST820-MW11, and UST820-PW01) and four deep monitoring wells (UST820-MW09, UST820-MW17, UST820-MW28 and UST820-MW29) continued to present COCs above groundwater quality standards. During the October 2007 groundwater sampling event, five shallow monitoring wells (UST820-MW02, UST820-MW03, UST820-MW06, UST820-MW11, and UST820-PW01) and four deep monitoring wells (UST820-MW09, UST820-MW09D, UST820-MW17, and UST820-MW28) presented COCs above groundwater quality standards. While groundwater contaminant concentrations were detected in a larger number of monitoring wells in October 2007, the concentration of the contaminants were either considerably lower than the October 2006 groundwater concentrations or approximately the same. Historically, over the past three years, these referenced monitoring wells have mostly decreased in benzene groundwater concentrations. Benzene concentrations, the primary driver, have been reduced or stayed the same as follows:

UST820-MW02 from <1.0 µg/L in 2004 to 6.8 µg/L in 2007 (same);
UST820-MW03 from 42.4 µg/L in 2004 to 1.1 µg/ 2007 (decrease);
UST820-MW06 from 212 µg/L in 2004 to 65.4 µg/L in 2007 (decrease);
UST820-MW11 from 7.4 µg/L in 2004 to <1.0 µg/Lin 2007 (decrease);

UST820-PW01 from 109 µg/L in 2004 to 1.4 µg/Lin 2007 (decrease) ,
UST820-MW09 from 2,360 µg/L in 2004 to 92.6 µg/L in 2007 (decrease);
UST820-MW09D from <1.0 µg/L in 2004 to 1.2 µg/L in 2007 (same);
UST820-MW17 from 242 µg/L in 2004 to 53.4 µg/Lin 2007 (decrease), and
UST820-MW28 from1,110 µg/L in 2004 to 1.7 µg/L in 2007 (decrease).

These trends will continue to be monitored as annual sampling and analysis events are completed. As stated in Section 5.1, Shaw believes that continued operation of the AS/SVE system will reduce adsorbed-phase hydrocarbons in subsurface soil and dissolved-phase contaminants in groundwater at the site. For reference, historical groundwater analytical results for individual monitoring wells are provided in *Appendix C.* Graphs comparing groundwater elevation versus total BTEX concentration in select monitoring wells that have displayed the presence of BTEX compounds above the groundwater quality standard are provided in *Appendix D.* In general, the graphs demonstrate a decreasing trend in BTEX concentrations in monitoring wells at the site. The sampling results support the conclusion that continued use of the AS/SVE system has resulted in a decrease in the dissolved BTEX concentrations over the site in the past year.

Groundwater analytical results from the the sampling event completed in October 2007 indicates the concentrations of dissolved contaminants have decreased since October 2006 . Based on analytical results from the 2007 sampling event, the horizontal extent of the current plume in the shallow aquifer was delineated at the site and the plume size has reduced in size since the 2006 sampling events.

In addition, the four new Type III monitoring wells UST820-MW30 through UST820-MW33 (screened 45 to 50 feet bls) indicate the lateral extent of contamination in the 50-foot depth interval has been delineated to the north, northwest and southeast. The deeper Type III monitoring wells MW-9D and MW-34 (screened from 95 to 100 feet bls) aid in the delineation of the vertical extent of contamination at the site, which MW-9D is currently at the 2L groundwater quality standard (GWQS) for benzene at 1.2 µg/L and MW-34 is below the 2L GWQS.

6.0 RECOMMENDATIONS

Results of the optimization survey completed by CATLIN in 2004, concluded that the site meets the criteria for classification as an Intermediate Risk and Residential Land Use site. This ranking revises the target cleanup goals for both soil and groundwater. The new target cleanup level for soil will be based on the Residential or Soil-to-Groundwater (whichever is lower) Maximum Soil Contaminant Concentrations (MSCCs), and the target cleanup level for groundwater will remain 2L GWQS.

6.1 AS/SVE SYSTEM

The active portion of the AS/SVE system should remain operational for the forseeable future. The AS/SVE system had only recovered an average of 0.36 lbs/day in 2006- 2007 and Shaw recommended that the SVE system be shut down every other month to pulse the system as stated in the 2006-2007 Annual Monitoring Report. However, the recommendation was not acted upon by the MCB and the NCDENR Regulators and Shaw did not pulse the SVE system. The average daily vapor recovery rate of the AS/SVE system increased from 0.36 lb/day in 2006-2007 to 0.95 lbs/day in 2007-2008. This is probably due to the lowered water table increasing the volume of vadose zone above the water table, which exposed more hydrocarbons and increased the mass of hydrocarbons recovered at the site. Groundwater elevations, on average, decreased 3 to 5 feet in 2007 from levels in 2006 due to the drought conditions in the southeastern part of the United States. Shaw recommends continued operation of the AS/SVE system to reduce adsorbed phase hydrocarbons in subsurface soil and also reduce the dissolved phase contaminants in groundwater at the site.

Based on our experiences over the past two years, Shaw recommends the following operating procedure for the AS / SVE system to maximize the removal efficiency:

- The AS system should be operated 100 percent of the time when the SVE system is operating.
- The SVE system should operate when the water level in Monitoring Well UST 820-MW05 is lower than 8 feet below the top of the casing. When the water level is above the 8 foot level, the SVE system should be turned off. This monitoring well is directly upgradient of the center of the hydrocarbon plume. Water levels above the 8 foot level would introduce more water vapor and less hydrocarbon vapor thus reducing the efficiency of the SVE system.

6.2 GROUNDWATER LEVEL MEASUREMENTS

Depth to groundwater/product measurements should continue at all monitoring wells being sampled at the site. Results of the measurements will be used to update a groundwater elevation contour map of the site in both the "shallow" and "deep" aquifer zones. Shaw's practice is to turn off the AS system one week prior to sampling to allow the air to dissipate.

6.3 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Shaw has completed the 2007 annual groundwater sampling and analysis and has compiled this data with past years data in the attached tables. The data indicates that the AS/SVE system is working to reduce hydrocarbon concentrations at the site. In addition, the Navy is utilizing the natural process of attenuation to address the dissolved contamination at 50 ft-bgs. The natural attentuation process will continue to be evaluated by performing sampling and analysis of the wells on an annual basis. In addition, Shaw recommends only sampling the monitoring wells that have presented concentrations above the 2L GWQS consistantly during the past three years. This recommendation would eliminate the following wells: Shallow wells UST820-MW05, UST820-MW08, UST820-MW10, UST820-MW12, UST820-MW14, UST820-MW15, UST820-MW18, UST820-MW20, UST820-MW22, and UST820-MW27; and deep wells UST820-MW07, UST820-MW19, UST820-MW21, and UST820-MW23.

The following bullets present the proposed groundwater monitoring plan for 2008:

- Annual groundwater sample collection from 10 shallow monitoring wells UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW06, UST820-MW11, UST820-MW13, UST820-MW16, UST820-MW24, UST820-MW26, and UST820-PW01. The groundwater samples are to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- Annual groundwater sample collection from 11 deep monitoring wells UST820-MW09, UST820-MW09D, UST820-MW-17, UST820-MW25, UST820-MW28, UST820-MW29, UST820-MW30, UST820-MW31, UST820-MW32, UST820-MW33, and UST820-MW34. The groundwater samples are to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

The analytical results from the sampling events will be compared to the 2L GWQS to evaluate the remediation/natural attenuation process. *Table 6.1* presents a summary of the proposed annual groundwater sampling program for 2008.

A flow-through cell will continue to be used in the measurement of DO, pH, conductivity and ORP in the field. This eliminates exposure of the purged groundwater to air that would yield erroneous, biased results. Analytical results from the sampling events will continue to be reviewed and recommendations for future remedial work at the site will be developed as appropriate.

It is recommended that monitoring of both the shallow and deeper groundwater be continued until contaminant concentrations are at or below the 2L GWQS.

7.0 REFERENCES

"Leaking Underground Storage Tank (LUST) Site Assessment Report" Law December 1992

Addendum to the LUST Site Assessment Report. Law March 1994

Corrective Action Plan (CAP) Law dated October 29, 1996

"*Remedial Action Optimization* and *Revised Corrective Action Plan Building 820"* dated February 24, 2004 Catlin USA

"Soil Contamination Report, Building 820, Camp Lejeune, North Carolina", dated June 2005. Shaw

"*Remedial Action Optimization* and *Revised Corrective Action Plan Addendum Report Building 820"* dated March 20, 2006. Catlin

TABLES

TABLE 2.1
MCB CAMP LEJEUNE
Site Rehabilitation Goals

MEDIUM	COMPONENTS	2004 CONDITIONS	2005 CONDITIONS	2006 CONDITIONS	2007 CONDITIONS	TARGET CLEANUP
Free Product	Gasoline/Diesel	No Free product observed in any well	No Free product observed in any well	No Free product observed in any well	No Free product observed in any well	≤1/8”
Vadose Zone Soil	TPH 3550/5030	TPH soil contamination was measured in November 1992 at levels that range from< 1 mg/kg to 2,700 mg/kg.	VOCs,SVOCs, & MADEP-EPH/VPH soil contamination was measured in April 2005 at levels that range from < 0.0048 mg/kg to <8.2 mg/kg.			Residential or Soil-to-Groundwater (whichever is lower) MSCCs
Groundwater	Benzene Ethylbenzene Chlorobenzene Chrysene Naphthalene Toluene Xylenes (Total) MTBE	2,360 µg/l 1,400 µg/l <1 µg/l <4.8 µg/l 268 µg/l 722 µg/l 2,450 µg/l 3,930 µg/l	1,130 µg/l 1,980 µg/l <1 µg/l <4.8 µg/l 281 µg/l 1,478 µg/l 3,990 µg/l 4,250 µg/l	1,710 µg/l 1,280 µg/l <1 µg/l <5.0 µg/l 253 µg/l 670 µg/l 2,030 µg/l 4,520 µg/l	92.6 µg/l 1,880 µg/l <1 µg/l <4.9 µg/l 322 µg/l 797 µg/l 1,890 µg/l 2,960 µg/l	1 µg/l 550 µg/l 50 µg/l 4.79 µg/l 21 µg/l 1,000 µg/l 530 µg/l 200 µg/l

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	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
12/02/05	12:20	60604	0	7600	285.92	545	4004	0.000	0.0	20593.4	
12/07/05	9:30	60720	0	7700	285.92	533	4148	0.000	0.0	20593.4	
12/16/05	10:45	60940	1	7600	285.92	545	4004	0.005	1.9	20602.1	
12/23/05	11:00	61107	0	7800	285.92	536	4178	0.000	0.0	20608.8	
12/29/05	14:30	61254	0	7500	285.92	551	3908	0.000	0.0	20608.8	
01/04/06	16:00	61423	0	8000	286.92	546	4207	0.000	0.0	20608.8	
01/12/06	9:45	61585	0	6700	286.92	550	3498	0.000	0.0	20608.8	
01/17/06	13:00	61709	0	6100	286.92	563	3111	0.000	0.0	20608.8	
01/24/06	15:30	61879	0	6200	286.92	551	3231	0.000	0.0	20608.8	
02/02/06	13:00	62086	0	5500	287.92	557	2835	0.000	0.0	20608.8	
02/08/06	12:30	62230	0	5300	287.92	542	2808	0.000	0.0	20608.8	
02/17/06	8:30	62442	0	5300	287.92	552	2757	0.000	0.0	20608.8	
02/24/06	8:15	62610	0	6900	287.92	539	3676	0.000	0.0	20608.8	
03/01/06	9:00	62730	1	6400	288.92	554	3317	0.005	1.6	20612.7	
03/08/06	10:00	62899	1	5300	288.92	541	2813	0.005	1.3	20623.0	
03/14/06	12:00	63047	1	6800	288.92	558	3499	0.005	1.7	20632.2	
03/21/06	13:00	63214	0	6400	288.92	542	3390	0.000	0.0	20638.0	
03/28/06	15:00	63384	1	6700	288.92	555	3466	0.005	1.6	20643.9	
04/05/06	14:45	63577	3	6400	289.92	568	3235	0.016	4.6	20669.1	
04/14/06	15:00	63791	2	5600	289.92	578	2782	0.011	2.6	20701.5	
04/18/06	11:00	63883	1	6400	289.92	557	3299	0.005	1.6	20709.6	
04/25/06	10:30	64076	0	6100	289.92	556	3150	0.000	0.0	20715.9	
05/02/06	13:00	64222	0	6400	290.92	570	3224	0.000	0.0	20715.9	
05/10/06	8:50	64387	1	6400	290.92	559	3287	0.005	1.6	20721.3	
05/15/06	12:00	64457	0	5900	290.92	573	2956	0.000	0.0	20723.5	
05/22/06	16:00	64575	1	5900	290.92	565	2998	0.005	1.4	20727.0	
06/02/06	15:00	64839	1	6500	291.92	572	3263	0.005	1.6	20743.4	
06/06/06	10:30	64928	0	5100	291.92	567	2583	0.000	0.0	20746.3	
06/12/06	12:00	65076	0	5900	291.92	584	2901	0.000	0.0	20746.3	
06/20/06	8:40	65263	1	6400	291.92	573	3207	0.005	1.5	20752.3	
06/29/06	15:05	65486	0	6600	291.92	578	3278	0.000	0.0	20759.3	
07/06/06	15:50	65655	2	6900	292.92	570	3476	0.011	3.3	20771.0	
07/12/06	8:50	65793	1	7100	292.92	574	3551	0.005	1.7	20785.4	
07/19/06	11:40	65964	0	6100	292.92	590	2968	0.000	0.0	20791.4	
07/27/06	10:40	66155	0	6400	292.92	587	3130	0.000	0.0	20791.4	

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	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
08/04/06	10:30	66344	0	6700	293.92	579	3322	0.000	0.0	20791.4	
08/08/06	16:00	66446	0	7400	293.92	587	3620	0.000	0.0	20791.4	
08/15/06	15:00	66613	0	6400	293.92	583	3152	0.000	0.0	20791.4	
08/22/06	14:00	66779	1	6300	293.92	574	3151	0.005	1.5	20796.6	
08/29/06	9:55	66943	1	7100	293.92	579	3521	0.005	1.7	20807.4	
09/06/06	12:30	67137	0	6400	294.92	568	3235	0.000	0.0	20814.2	
09/12/06	9:15	67277	0	6600	294.92	565	3354	0.000	0.0	20814.2	
09/23/06	9:30	67542	1	6400	294.92	569	3229	0.005	1.5	20822.7	
09/26/06	10:15	67614	0	6800	294.92	561	3480	0.000	0.0	20825.0	
10/03/06	9:00	67553	0	7500	295.92	571	3771	0.000	0.0	20825.0	
10/11/06	14:20	67978	0	8000	295.92	571	4023	0.000	0.0	20825.0	
10/18/06	14:30	68142	0	7600	295.92	569	3835	0.000	0.0	20825.0	
10/25/06	16:10	68311	0	7100	295.92	550	3706	0.000	0.0	20825.0	
10/31/06	15:00	68456	0	7300	295.92	563	3723	0.000	0.0	20825.0	
11/06/06	10:50	68596	0	7800	296.92	555	4035	0.000	0.0	20825.0	
11/13/06	11:00	68763	0	6900	296.92	557	3557	0.000	0.0	20825.0	
11/22/06	11:55	68980	0	6700	296.92	555	3466	0.000	0.0	20825.0	
11/28/06	11:30	69124	0	7500	296.92	573	3758	0.000	0.0	20825.0	
12/05/06	13:45	69295	0	7400	297.92	558	3808	0.000	0.0	20825.0	
12/12/06	14:30	69463	0	6900	297.92	568	3488	0.000	0.0	20825.0	
12/18/06	14:30	69607	0	7600	297.92	574	3802	0.000	0.0	20825.0	
12/29/06	10:15	69866	0	7600	297.92	563	3876	0.000	0.0	20825.0	
01/02/07	10:00	69962	0	6900	298.92	551	3595	0.000	0.0	20825.0	
01/10/07	15:45	70158	0	7600	298.92	553	3946	0.000	0.0	20825.0	
01/16/07	13:15	70302	0	7400	298.92	568	3741	0.000	0.0	20825.0	
01/24/07	13:30	70494	1	7200	298.92	554	3731	0.005	1.8	20832.1	
01/31/07	15:05	70663	0	7200	298.92	546	3786	0.000	0.0	20838.3	
02/07/07	9:45	70826	0	7200	299.92	558	3705	0.000	0.0	20838.3	
02/14/07	11:15	70995	0	7200	299.92	552	3745	0.000	0.0	20838.3	
02/20/07	11:30	71139	0	7300	299.92	565	3710	0.000	0.0	20838.3	
02/28/07	14:05	71335	0	7200	299.92	568	3639	0.000	0.0	20838.3	

Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	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
03/07/07	13:15	71500	0	6800	300.92	566	3449	0.000	0.0	20838.3	
03/15/07	9:30	71689	0	7100	300.92	570	3576	0.000	0.0	20838.3	
03/20/07	10:00	71810	0	7400	300.92	567	3747	0.000	0.0	20838.3	
03/26/07	12:15	71957	1	7400	300.92	571	3721	0.005	1.8	20843.8	
04/04/07	14:20	72113	1	7200	300.92	582	3552	0.005	1.7	20855.0	
04/10/07	11:15	72315	0	7400	300.92	562	3781	0.000	0.0	20862.1	
04/18/07	11:40	72507	0	7800	300.92	564	3971	0.000	0.0	20862.1	
04/24/07	11:45	72651	0	7800	300.92	574	3902	0.000	0.0	20862.1	
05/04/07	10:10	72796	0	7600	300.92	571	3821	0.000	0.0	20862.1	5/9 System Down
05/23/07	16:15	72800	1	7400	300.92	576	3689	0.005	1.8	20862.3	5/17 System Down
05/31/07	9:55	72903	2	7600	300.92	581	3756	0.011	3.6	20873.7	
06/07/07	10:25	73071	2	7400	300.92	588	3613	0.011	3.4	20898.3	
06/13/07	10:05	73215	0	7700	300.92	583	3792	0.000	0.0	20908.6	
06/21/07	10:36	73364	3	7800	300.92	585	3828	0.016	5.5	20925.6	
06/27/07	12:30	73510	1	7800	300.92	591	3789	0.005	1.8	20947.7	
07/06/07	10:45	73725	2	7800	300.92	586	3822	0.011	3.6	20972.0	
07/13/07	9:30	73890	0	7900	300.92	581	3904	0.000	0.0	20984.5	
07/19/07	9:45	74030	0	7800	300.92	587	3815	0.000	0.0	20984.5	
07/26/07	12:40	74200	1	7800	300.92	594	3770	0.005	1.8	20990.9	
08/02/07	13:50	74369	2	7900	300.92	592	3831	0.011	3.6	21010.1	
08/09/07	9:45	74533	0	8100	300.92	594	3915	0.000	0.0	21022.5	
08/16/07	9:50	74701	2	8400	300.92	590	4088	0.011	3.9	21036.1	
08/24/07	11:40	74895	1	7900	300.92	592	3831	0.005	1.8	21059.2	
08/31/07	11:45	75011	0	7600	300.92	584	3736	0.000	0.0	21063.6	
09/07/07	9:15	75174	2	7800	300.92	585	3828	0.011	3.6	21076.0	
09/13/07	9:40	75318	0	7900	300.92	580	3911	0.000	0.0	21087.0	
09/20/07	10:45	75487	0	8100	300.92	577	4031	0.000	0.0	21087.0	
09/28/07	11:40	75683	2	7900	300.92	588	3857	0.011	3.7	21101.9	
10/05/07	12:15	75805	0	7700	300.92	577	3832	0.000	0.0	21111.3	
10/11/07	10:15	75948	0	7900	300.92	564	4022	0.000	0.0	21111.3	
10/17/07	9:45	76090	0	7700	300.92	572	3865	0.000	0.0	21111.3	
10/26/07	8:30	76305	0	7800	300.92	559	4006	0.000	0.0	21111.3	
10/30/07	10:05	76403	0	7700	300.92	555	3983	0.000	0.0	21111.3	
11/07/07	14:05	76600	0	7900	300.92	557	4072	0.000	0.0	21111.3	
11/14/07	10:40	76763	0	8100	300.92	567	4102	0.000	0.0	21111.3	11/23 no readings
11/30/07	12:45	77150	0	8300	300.92	556	4286	0.000	0.0	21111.3	
12/06/07	13:10	77295	0	8300	300.92	542	4397	0.000	0.0	21111.3	
12/13/07	8:30	77455	0	8500	300.92	551	4429	0.000	0.0	21111.3	
12/20/07	12:05	77627	0	8300	300.92	548	4349	0.000	0.0	21111.3	12/28 no readings
01/11/08	9:50	77905	0	8400	300.92	561	4299	0.000	0.0	21111.3	01/04 no readings
01/16/08	14:55	78032	0	8100	300.92	550	4228	0.000	0.0	21111.3	
01/24/08	12:10	78159	0	8100	300.92	540	4307	0.000	0.0	21111.3	

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	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
01/31/08	10:50	78326	1	8100	300.92	556	4183	0.005	2.0	21118.2	
02/13/08	13:45	78639	1	8400	300.92	573	4209	0.005	2.0	21144.2	02/08 no readings
02/21/08	10:50	78694	0	7800	300.92	541	4140	0.000	0.0	21146.5	
02/27/08	9:45	78810	0	8100	300.92	558	4168	0.000	0.0	21146.5	
03/18/08	11:40	78856	0	8400	300.92	563	4284	0.000	0.0	21146.5	03/07 and 03/14 no readings
03/27/08	10:45	79028	0	8700	300.92	561	4453	0.000	0.0	21146.5	
04/04/08	11:05	79219	2	8800	300.92	534	4731	0.011	4.5	21164.5	
04/10/08	11:05	79295	2	8800	300.92	576	4386	0.011	4.2	21178.2	
04/17/08	10:20	79462	0	8500	300.92	580	4208	0.000	0.0	21192.7	
04/26/08	9:40	79545	2	8200	300.92	585	4025	0.011	3.8	21199.4	
04/30/08	9:40	79595	2	8575	300.92	569	4329	0.008	3.1	21206.6	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)

$M = Q \times C \times 0.0895$

M: hydrocarbon recovery rate (lb/day)

Assumptions:

Mg = 128 mg/mg-mole

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

B = 0.003 from Perry's Chemical Handbook

A = 0.545 sq. ft

percent water vapor by volume	0.003
SVE Stack pipe diameter	10

at 68 degrees F (from Perry's handbook)

* Estimated value due to malfunctionng instrument

Cumulative Mass of Hydrocarbons Recovered

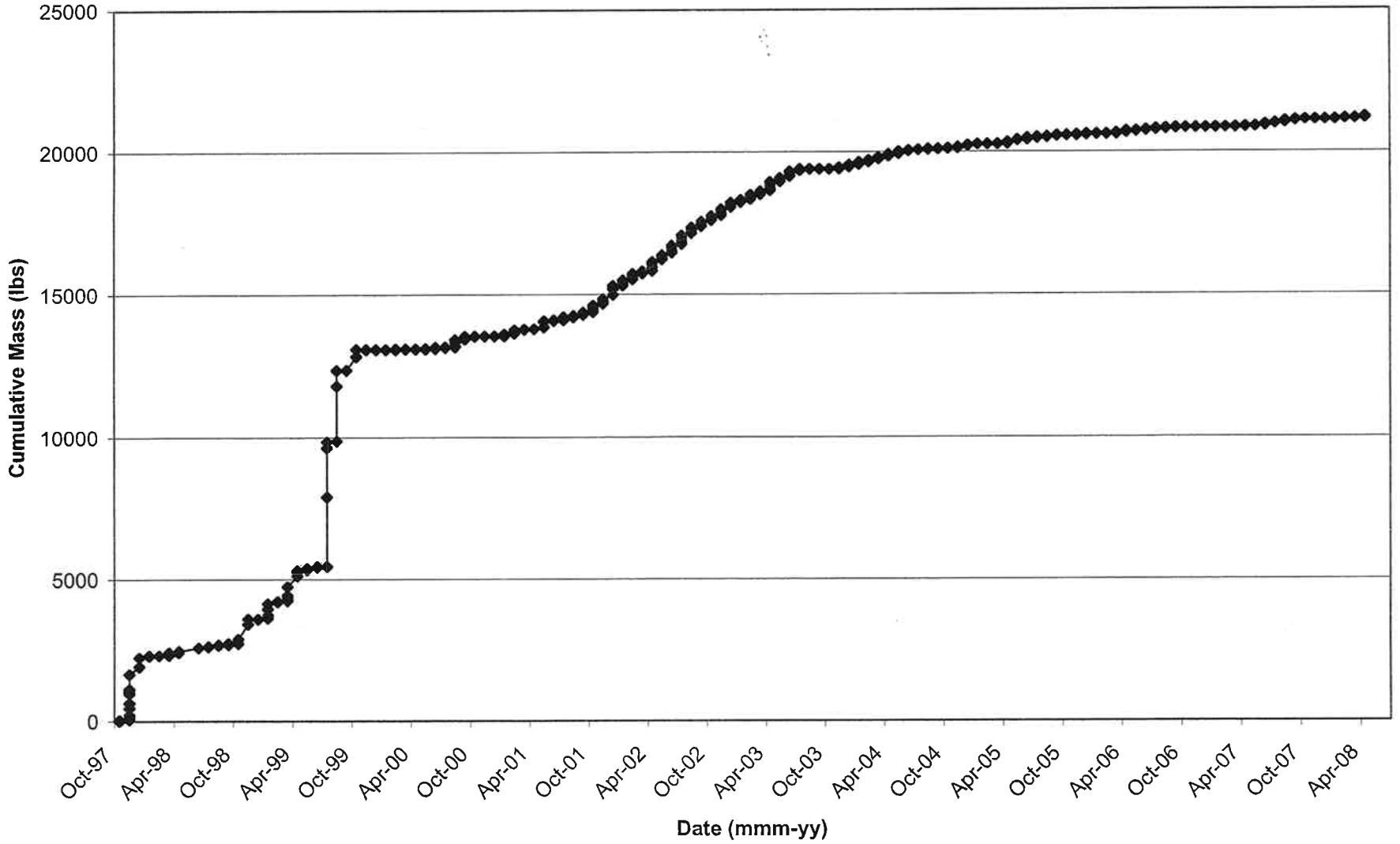


Table 4.1
Groundwater Elevation Table
Building 820
Camp LeJeune, North Carolina

		Revised			Revised			Revised			Revised			Revised
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)
UST820-MW02	shallow	32.27	Aug-05	14.45	**17.82**	Feb-06	11.10	**21.17**	Oct-06	11.83	**20.44**	Oct-07	16.46	**15.81**
UST820-MW03	shallow	32.42	Aug-05	14.63	**17.79**	Feb-06	11.18	**21.24**	Oct-06	12.02	**20.40**	Oct-07	16.42	**16.00**
UST820-MW04	shallow	32.87	Aug-05	14.62	**18.25**	Feb-06	11.20	**21.67**	Oct-06	12.15	**20.72**	Oct-07	16.38	**16.49**
UST820-MW05	shallow	29.93	Aug-05	11.38	**18.55**	Feb-06	7.71	**22.22**	Oct-06	8.57	**21.36**	Oct-07	13.07	**16.86**
UST820-MW06	shallow	31.75	Aug-05	15.20	**16.55**	Feb-06	11.62	**20.13**	Oct-06	12.56	**19.19**	Oct-07	16.77	**14.98**
UST820-MW08	shallow	26.80	Aug-05	13.62	**13.18**	Feb-06	10.61	**16.19**	Oct-06	11.41	**15.39**	Oct-07	15.72	**11.08**
UST820-MW10	shallow	31.38	Aug-05	NM	---	Feb-06	8.86	**22.52**	Oct-06	9.57	**21.81**	Oct-07	15.98	**15.40**
UST820-MW11	shallow	29.12	Aug-05	10.58	**18.54**	Feb-06	7.16	**21.96**	Oct-06	7.92	**21.20**	Oct-07	12.21	**16.91**
UST820-MW12	shallow	31.50	Aug-05	14.21	**17.29**	Feb-06	11.64	**19.86**	Oct-06	11.63	**19.87**	Oct-07	15.75	**15.75**
UST820-MW13	shallow	28.80	Aug-05	13.35	**15.45**	Feb-06	9.01	**19.79**	Oct-06	9.87	**18.93**	Oct-07	14.10	**14.70**
UST820-MW14	shallow	31.65	Aug-05	13.75	**17.90**	Feb-06	11.80	**19.85**	Oct-06	12.56	**19.09**	Oct-07	16.92	**14.73**
UST820-MW15	shallow	29.89	Aug-05	10.36	**19.53**	Feb-06	7.10	**22.79**	Oct-06	14.28	**15.61**	Oct-07	12.73	**17.16**
UST820-MW16	shallow	31.86	Aug-05	13.29	**18.57**	Feb-06	9.08	**22.78**	Oct-06	10.06	**21.80**	Oct-07	14.92	**16.94**
'ST820-MW18	shallow	31.31	Aug-05	13.69	**17.62**	Feb-06	9.68	**21.63**	Oct-06	10.81	**20.50**	Oct-07	15.22	**16.09**
ST820-MW20	shallow	31.18	Aug-05	15.55	**15.63**	Feb-06	11.62	**19.56**	Oct-06	12.56	**18.62**	Oct-07	16.93	**14.25**
UST820-MW22	shallow	31.53	Aug-05	13.69	**17.84**	Feb-06	14.42	**17.11**	Oct-06	15.31	**16.22**	Oct-07	19.38	**12.15**
UST820-MW24	shallow	29.35	Aug-05	16.19	**13.16**	Feb-06	13.20	**16.15**	Oct-06	13.82	**15.53**	Oct-07	17.03	**12.32**
UST820-MW26	shallow	28.49	Aug-05	12.00	**16.49**	Feb-06	9.19	**19.30**	Oct-06	10.09	**18.40**	Oct-07	13.72	**14.77**
UST820-MW27	shallow	29.91	Aug-05	11.30	**18.61**	Feb-06	7.81	**22.10**	Oct-06	8.65	**21.26**	Oct-07	13.13	**16.78**
UST820-MW7	deep	26.86	Aug-05	12.72	**14.14**	Feb-06	9.68	**17.18**	Oct-06	10.46	**16.40**	Oct-07	14.81	**12.05**
UST820-MW9	deep	31.21	Aug-05	18.81	**12.40**	Feb-06	11.40	**19.81**	Oct-06	NM	**NM**	Oct-07	19.78	**11.43**
UST820-MW9D	deep	32.53	Aug-05	20.90	**11.63**	Feb-06	16.24	**16.29**	Oct-06	17.42	**15.11**	Oct-07	20.57	**11.96**
UST820-MW17	deep	32.16	Aug-05	19.81	**12.35**	Feb-06	16.46	**15.70**	Oct-06	17.32	**14.84**	Oct-07	20.57	**11.59**
UST820-MW19	deep	31.35	Aug-05	18.95	**12.40**	Feb-06	NM	---	Oct-06	16.62	**14.73**	Oct-07	19.78	**11.57**
UST820-MW21	deep	31.49	Aug-05	18.80	**12.69**	Feb-06	14.86	**16.63**	Oct-06	13.33	**18.16**	Oct-07	19.51	**11.98**
UST820-MW23	deep	30.86	Aug-05	17.83	**13.03**	Feb-06	14.84	**16.02**	Oct-06	15.63	**15.23**	Oct-07	19.78	**11.08**
UST820-MW25	deep	28.18	Aug-05	15.51	**12.67**	Feb-06	12.35	**15.83**	Oct-06	13.13	**15.05**	Oct-07	16.29	**11.89**
UST820-MW28	deep	28.85	Aug-05	16.21	**12.64**	Feb-06	15.05	**13.80**	Oct-06	13.67	**15.18**	Oct-07	13.62	**15.23**
UST820-MW29	deep	27.37	Aug-05	13.75	**13.62**	Feb-06	10.60	**16.77**	Oct-06	11.28	**16.09**	Oct-07	14.41	**12.96**
UST820-MW30	deep	29.29							Oct-06	17.29	**12.00**	Oct-07	17.69	**11.60**
UST820-MW31	deep	29.97							Oct-06	17.81	**12.16**	Oct-07	16.25	**13.72**
T820-MW32	deep	29.17							Oct-06	11.97	**17.20**	Oct-07	16.73	**12.44**
UST820-MW33	deep	31.30							Oct-06	14.06	**17.24**	Oct-07	21.10	**10.20**
UST820-MW34	deep	30.19							Oct-06	13.72	**16.47**	Oct-07	17.99	**12.20**

** NGVD = National Geodetic Vertical Datum
Measurement not used due to suspected

CLJ - POL Berkeley Manor
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Table 4.2
Field Data Summary
B-820 Year 10 Annual
Oct. 2007 Field Data Shallow

Client Sample ID:		UST820-MW02	UST820-MW3	UST820-MW04	UST820-MW05	UST820-MW06	UST820-MW08	UST820-MW10	UST820-MW11	UST820-MW12	UST820-MW13
Date Sampled:		10/23/07	10/17/07	10/18/07	10/18/07	10/21/07	10/24/07	10/23/07	10/18/07	10/18/07	10/18/07
Analyte	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters											
Depth to Water	feet	16.46	16.42	16.38	13.07	16.77	15.72	15.98	12.21	15.75	14.1
Temperature	°C	24.38	24.95	26.32	NM	20.95	23.36	NS	27.49	21.44	22.1
Conductivity	mS/m	0.650	1.718	0.579	NM	0.981	0.509	NS	0.586	0.733	0.711
Dissolved Oxygen	mg/L	0.50	1.77	2.14	NM	1.15	1.47	NS	0.80	1.44	4.82
pH	-	7.16	6.83	4.43	NM	6.45	3.21	NS	5.17	4.52	5.28
Oxidation-Reduction Potential	mV	-197.2	-82.0	36.6	NM	-142.1	251.7	NS	-142.40	161.9	-22
Turbidity	NTU	0.0	0.0	0.0	NM	6.6	0.0	NS	0.0	15.5	0

NS = not sampled
MW-27 low yield well

Printed: 3/14/2008

CLJ - POL Berkeley Manor
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Table 4.2
Field Data Summary
B-820 Year 10 Annual
Oct. 2007 Field Data Shallow

Client Sample ID:		UST820-MW14	UST820-MW15	UST820-MW16	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26	UST820-MW27	UST820-PW01
Date Sampled:		10/19/07	10/15/07	10/23/07	10/23/07	10/23/07	10/24/07	10/19/07	10/19/07	10/21/07	10/17/07
Analyte	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters											
Depth to Water	feet	16.92	12.73	14.92	15.22	16.93	19.38	17.03	13.76	13.13	16.59
Temperature	°C	21.55	23.21	20.56	21.22	20.5	22.22	21.63	22.01	NM	22.45
Conductivity	mS/m	0.371	0.926	0.221	0.26	0.063	0.079	0.423	0.401	NM	1.264
Dissolved Oxygen	mg/L	0.67	1	0.69	2.8	6.59	0.62	0.38	5.63	NM	1.84
pH	-	4.86	5.98	5.63	4.22	5.06	4.52	4.54	4.58	NM	6.86
Oxidation-Reduction Potential	mV	-88.4	-66.4	109	464.3	381.3	-31.5	142.9	134.3	NM	-73.7
Turbidity	NTU	0	0	0	22.4	0.0	0	0	0	NM	0

NS = not sampled
MW-27 low yield well

Printed: 3/14/2008

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Table 4.3
Analytical Data Summary
B-820 Year 10 Annual
October 2007 Shallow

Client Sample ID:		UST820-MW02	UST820-MW03	UST820-MW04	UST820-MW05	UST820-MW06	UST820-MW08	UST820-MW10	UST820-MW11	UST820-MW12	UST820-MW13
Lab ID:		F53429-5	F53380-1	F53380-8	F53380-5	F53429-2	F53490-5	NS	F53380-6	F53380-3	F53380-4
Date Sampled:		10/21/07	10/17/07	10/18/07	10/18/07	10/21/07	10/24/07	10/23/07	10/18/07	10/18/07	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	**6.8**	**1.1**	<1.0	<1.0	**65.4**	<1.0	NS	**0.85 J**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<20	<1.0	NS	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**7.3**	<1.0	<1.0	**30**	<1.0	NS	**1.9**	<1.0	**8.4**
Ethylbenzene	550	**2.7**	**9.0**	<1.0	<1.0	**1880**	<1.0	NS	**46.2**	<1.0	**13.5**
Xylenes (total)	530	**172**	**163.0**	<3.0	<3.0	**1890**	<3.0	NS	**1400 B**	<3.0	**86.0**
Toluene	1000	**5.5**	**26.1**	<1.0	<1.0	**797**	<1.0	NS	**6.4**	<1.0	**27.4**
Total BTEX		**187.0**	**199.2**			**4632**			**1452.6**		**126.9**
Di-Isopropyl ether	70	<2.0	<1.0	<1.0	<1.0	**31.8**	<1.0	NS	**3.6**	<1.0	<1.0
EPA 625											
Chrysene	4.79	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	**1.8 J**	<4.8	<4.9
Naphthalene	21	**29.5**	<4.9	<4.9	<4.8	**322**	<4.9	NS	**188**	<4.8	**2.9 J**
Acenaphthene	80	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	<4.9	<4.8	<4.9
Acenaphthylene	210	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	<4.9	<4.8	<4.9
Benzo(a)anthracene	0.0479	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	**1.0 J**	<4.8	<4.9
Pyrene	210	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	**1.5 J**	<4.8	<4.9
Fluorene	280	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	<4.9	<4.8	<4.9
Anthracene	2100	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	<4.9	<4.8	<4.9
Fluoranthene	280	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	**1.6 J**	<4.8	<4.9
Phenanthrene	210	<4.8	<4.9	<4.9	<4.8	<4.8	<4.9	NS	<4.9	<4.8	<4.9
SW846-6010B											
Lead	15	<2.1	<2.1	<2.1	**8.8**	<2.1	<2.1	NS	**2.1 B**	**2.3 B**	**6.8**
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).									

B = detected in blank
J = estimated below RL
NS = not sampled - See Section 4.2.1

CLJ - POL Berkeley Manor
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Table 4.3
Analytical Data Summary
B-820 Year 10 Annual
October 2007 Shallow

Client Sample ID:		UST820-MW14	UST820-MW15	UST820-MW16	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26	UST820-MW27	UST820-PW01
Lab ID:		F53380-14	F53279-3	F53429-10	F53429-6	F53429-8	F53490-2	F53380-12	F53380-13	F53429-1	F53380-2
Date Sampled:		10/19/07	10/15/07	10/21/07	10/21/07	10/21/07	10/24/07	10/19/07	10/19/07	10/21/07	10/17/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	<1.0	<1.0	**0.50 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	**0.70 J**	<1.0	**2.2**	<1.0	<1.0	<1.0	<1.0	**8.5**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**18.4**
Xylenes (total)	530	<3.0	<3.0	**1.1 J**	**1.8 J**	<3.0	<3.0	<3.0	<3.0	<3.0	**45.8**
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.7**
Total BTEX											**68.3**
Di-Isopropyl ether	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
EPA 625											
Chrysene	4.79	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8	<4.8
SW846-6010B											
Lead	15	<2.1	<2.1	**2.3 B**	**6.5**	<2.1	<2.1	**2.4 B**	<2.1	<2.1	<2.1
			Bold type indicates detectable concentrations.								
			Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).								

B = detected in blank
J = estimated below RL
NS = not sampled - See Section 4.2.1

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CLJ - POL Berkeley Manor
Project #125709

Table 4.4
Field Data Summary
B-820 Year 10 Annual
Oct. 2007 Field Data Deep

Client Sample ID:		UST820-MW07	UST820-MW09	UST820-MW09D	UST820-MW17	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25
Date Sampled:		10/24/07	10/23/07	10/21/07	10/23/07	10/23/06	10/23/07	10/24/07	10/19/07
Analyte	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters									
Depth to Water	feet	14.81	19.78	20.57	20.57	21.15	19.51	19.78	16.29
Temperature	°C	23.07	23.77	24.37	20.58	NS	20.79	21.17	21.02
Conductivity	mS/m	0.221	7.654	0.698	0.627	NS	0.930	0.312	0.695
Dissolved Oxygen	mg/L	0.39	0.53	4.60	0.41	NS	0.37	0.57	0.78
pH	-	5.26	3.08	6.99	2.97	NS	3.76	3.27	3.83
Oxidation-Reduction Potential	mV	97.5	557.1	-10.1	251.1	NS	479.3	-17.5	269.7
Turbidity	NTU	0.0	0.0	0.0	0	NS	0.0	0.0	0.0

NS = not sampled

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Table 4.4
Field Data Summary
B-820 Year 10 Annual
Oct. 2007 Field Data Deep

Client Sample ID:		UST820-MW28	UST820-MW29	UST820-MW30	UST820-MW31	UST820-MW32	UST820-MW33	UST820-MW34
Date Sampled:		10/15/07	10/18/07	10/18/07	10/15/07	10/15/07	10/24/07	10/15/07
Analyte	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Field Parameters								
Depth to Water	feet	13.62	14.41	17.69	16.25	16.73	21.1	17.99
Temperature	°C	22.63	22.43	23.15	19.92	21.02	24.98	24.97
Conductivity	mS/m	2.752	1.64	0.683	1.181	0.976	1.389	1.313
Dissolved Oxygen	mg/L	1.86	1.3	1.95	2.21	0.78	0.18	0.23
pH	-	9.82	4.33	6.46	8.03	6.42	6.68	8.12
Oxidation-Reduction Potential	mV	-92.5	225.6	-0.9	-23.7	-0.4	-50.1	-44.7
Turbidity	NTU	0.0	0	0.0	0.0	0.0	0.0	0

NS = not sampled

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CLJ - POL Berkeley Manor
Project #125709

Table 4.5
Analytical Data Summary
B-820 Year 10 Annual
October 2007 Deep

Client Sample ID:		UST820-MW07	UST820-MW09	UST820-MW09D	UST820-MW17	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25
Lab ID:		F53490-4	F53429-4	F53429-3	F53429-9	NS	F53429-7	F53490-1	F53380-11
Date Sampled:		10/24/07	10/21/07	10/21/07	10/21/07	10/23/07	10/21/07	10/24/07	10/19/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602									
Benzene	1	<1.0	**92.6**	**1.2**	**53.4**	NS	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<10	<1.0	<50	NS	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**583**	**9.5**	**2960**	NS	**1.4 J**	<1.0	<1.0
Ethylbenzene	550	<1.0	**6.8 J**	**55.2**	<50	NS	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<30.0	**79.3**	<150	NS	<3.0	<3.0	<3.0
Toluene	1000	<1.0	**11.2**	**14.8**	<50	NS	<1.0	<1.0	<1.0
Total BTEX			**104**	**151**	**53**				
Di-Isopropyl Ether	70	<1.0	<10.0	<1.0	<50.	NS	<1.0	<1.0	<1.0
EPA 625									
Chrysene	4.79	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	**1.7 J**	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	NS	<4.8	<4.8	<4.8
SW846-6010B									
Lead	15	<2.1	<2.1	<2.1	<42	NS	<8.4	<2.1	<2.1
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).							

B = detected in blank
J = estimated below RL
NS = not sampled - See Section 4.2.1

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CLJ - POL Berkeley Manor
Project #125709

Table 4.5
Analytical Data Summary
B-820 Year 10 Annual
October 2007 Deep

Client Sample ID:		UST820-MW28	UST820-MW29	UST820-MW30	UST820-MW31	UST820-MW32	UST820-MW33	UST820-MW34
Lab ID:		F53279-4	F53380-10	F53380-9	F53279-1	F53279-2	F53490-3	F53279-5
Date Sampled:		10/15/07	10/18/07	10/18/07	10/15/07	10/15/07	10/24/07	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**740 B**	**6.6**	**6.0**	<1.0	<1.0	<1.0	**1.3**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX		**1.7**						
Di-Isopropyl Ether	70	**4.4**	<1.0	<1.0	<1.0		<1.0	<1.0
EPA 625								
Chrysene	4.79	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Naphthalene	21	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Acenaphthene	80	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Pyrene	210	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Fluorene	280	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Anthracene	2100	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Fluoranthene	280	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
Phenanthrene	210	<4.8	<4.8	<4.9	<4.8	<4.8	<4.9	<4.8
SW846-6010B								
Lead	15	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).						

B = detected in blank
J = estimated below RL
NS = not sampled - See Section 4.2.1

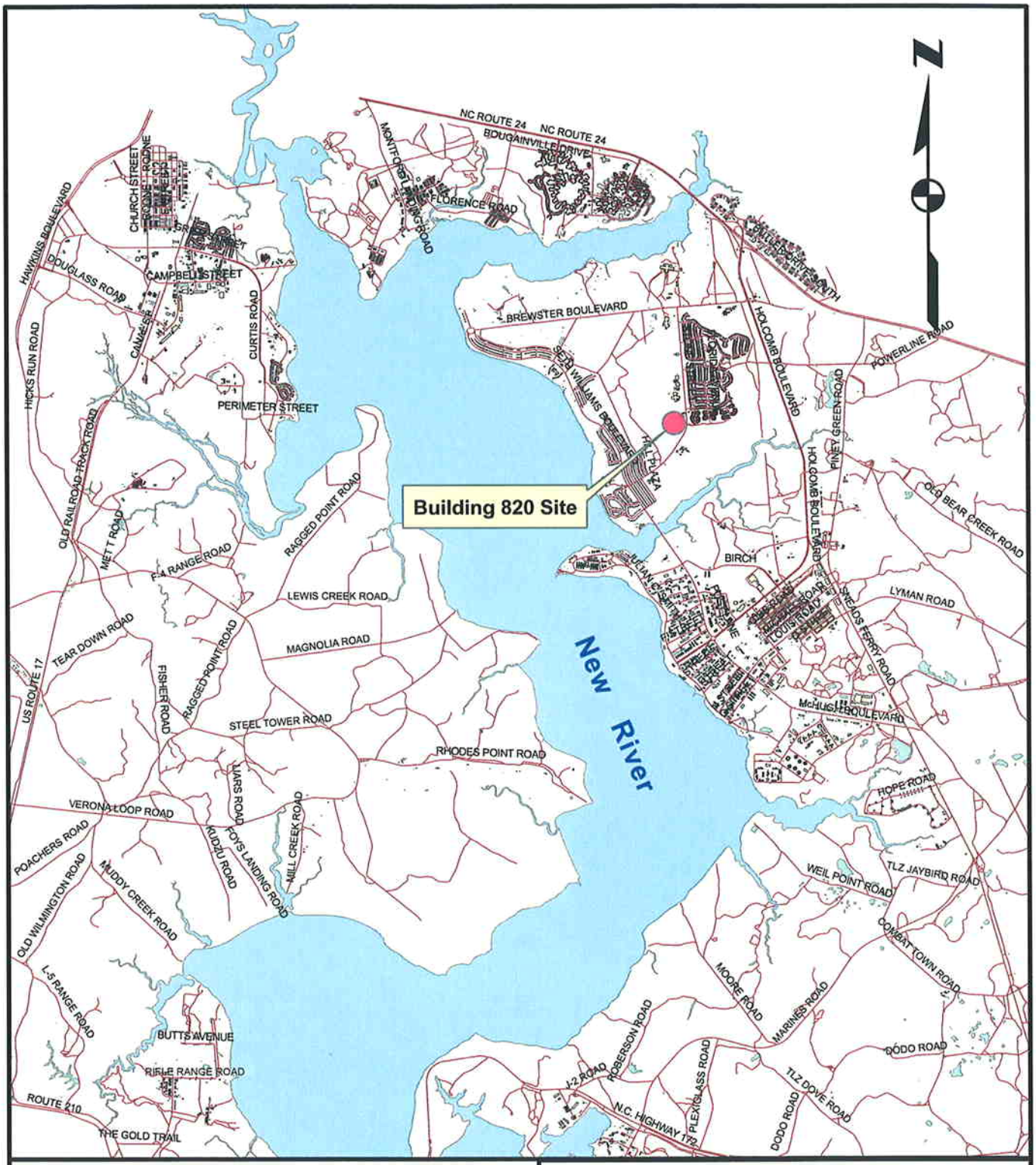
Printed: 3/14/2008

Table 6.1
Building 820 Annual Schedule for Groundwater Sample Collection and Analysis for 2008

Analysis	Type II Shallow Monitoring Wells									
	UST820-MW02	UST820-MW03	UST820-MW04	UST820-MW06	UST820-MW11	UST820-MW13	UST820-MW16	UST820-MW24	UST820-MW26	UST820-PW01
Field Screening										
Temperature	X	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X	X	X
PAHs Method 625	X	X	X	X	X	X	X	X	X	X
Lead Method 6010B	X	X	X	X	X	X	X	X	X	X

Analysis	Type III Deep Monitoring Wells										
	UST820-MW09	UST820-MW9D	UST820-MW17	UST820-MW25	UST820-MW28	UST820-MW29	UST820-MW30	UST820-MW31	UST820-MW32	UST820-MW33	UST820-MW34
Field Screening											
Temperature	X	X	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X	X	X	X
PAHs Method 625	X	X	X	X	X	X	X	X	X	X	X
Lead Method 6010B	X	X	X	X	X	X	X	X	X	X	X

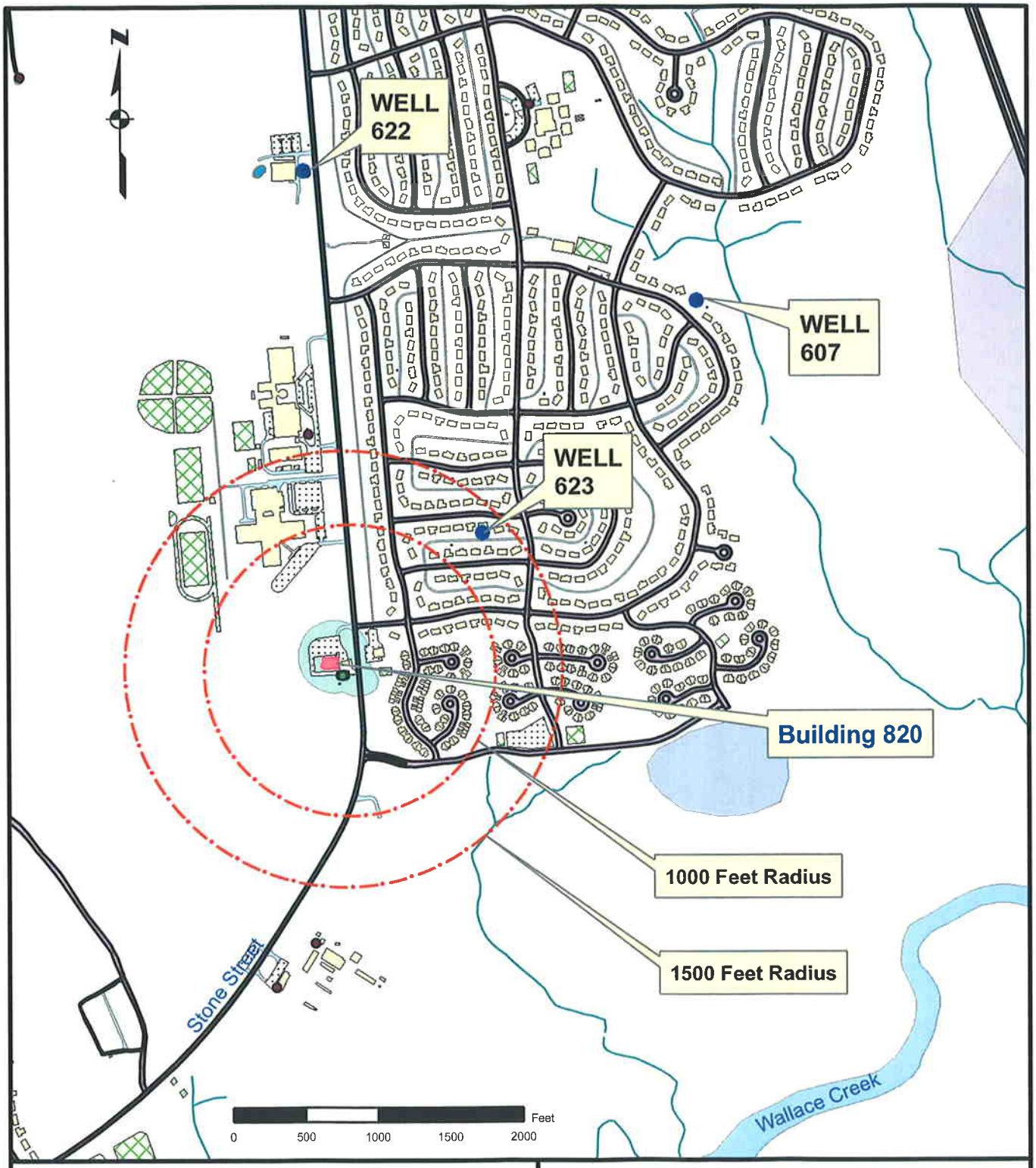
FIGURES



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FIGURE 1-1
SITE VICINITY MAP
BUILDING 820
MARINE CORPS BASE
CAMP LEJEUNE

L:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\BUILDING 820 VICINITY.mxd

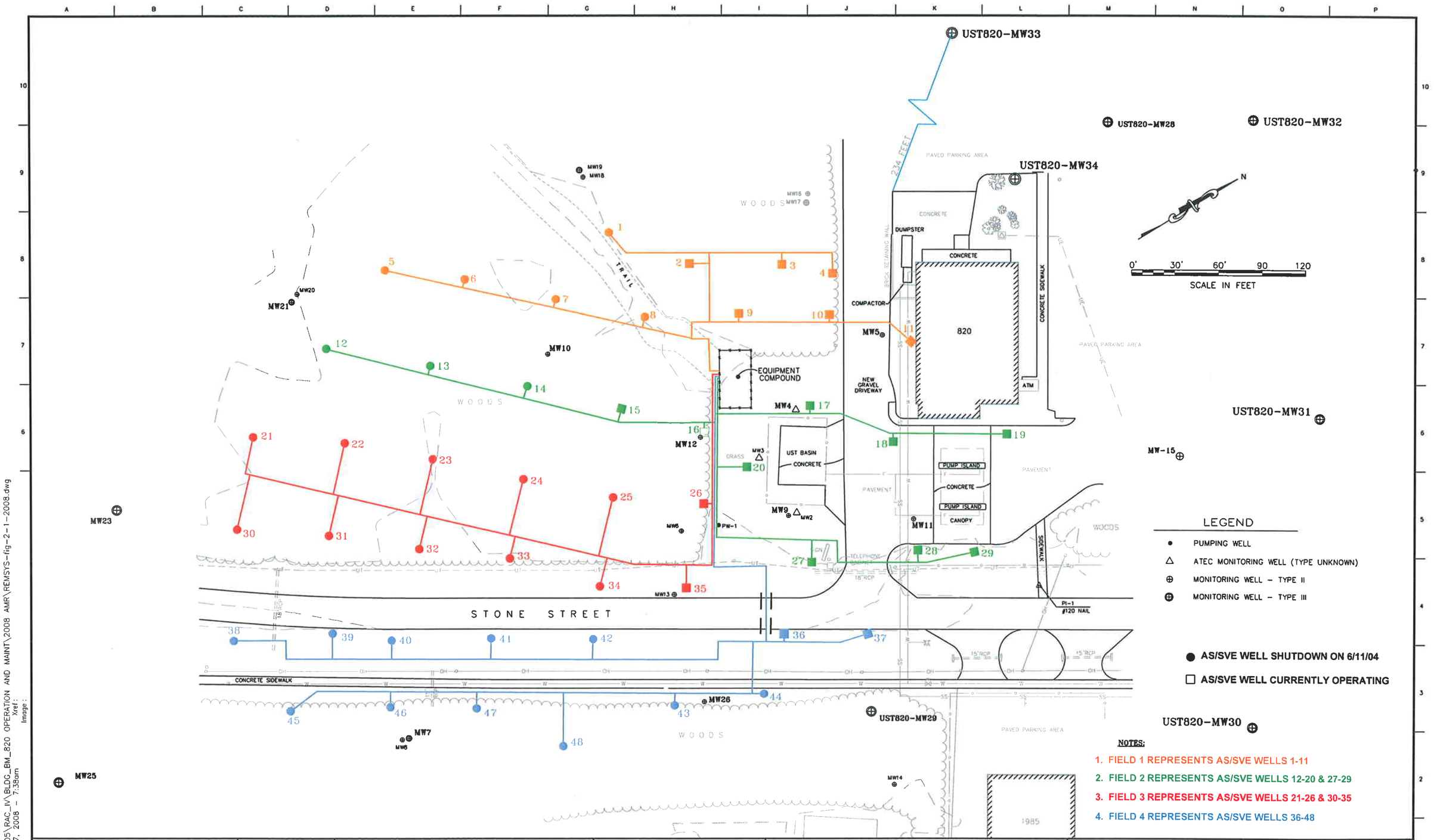


Legend

- BUILDINGS
- SURFACE WATER AREA
- ROAD AREA
- ABOVE GROUND STORAGE TANK
- UNDERGROUND STORAGE TANK

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FIGURE 1-2
SITE LOCATION MAP
BUILDING 820
MARINE CORPS BASE
CAMP LEJEUNE



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CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

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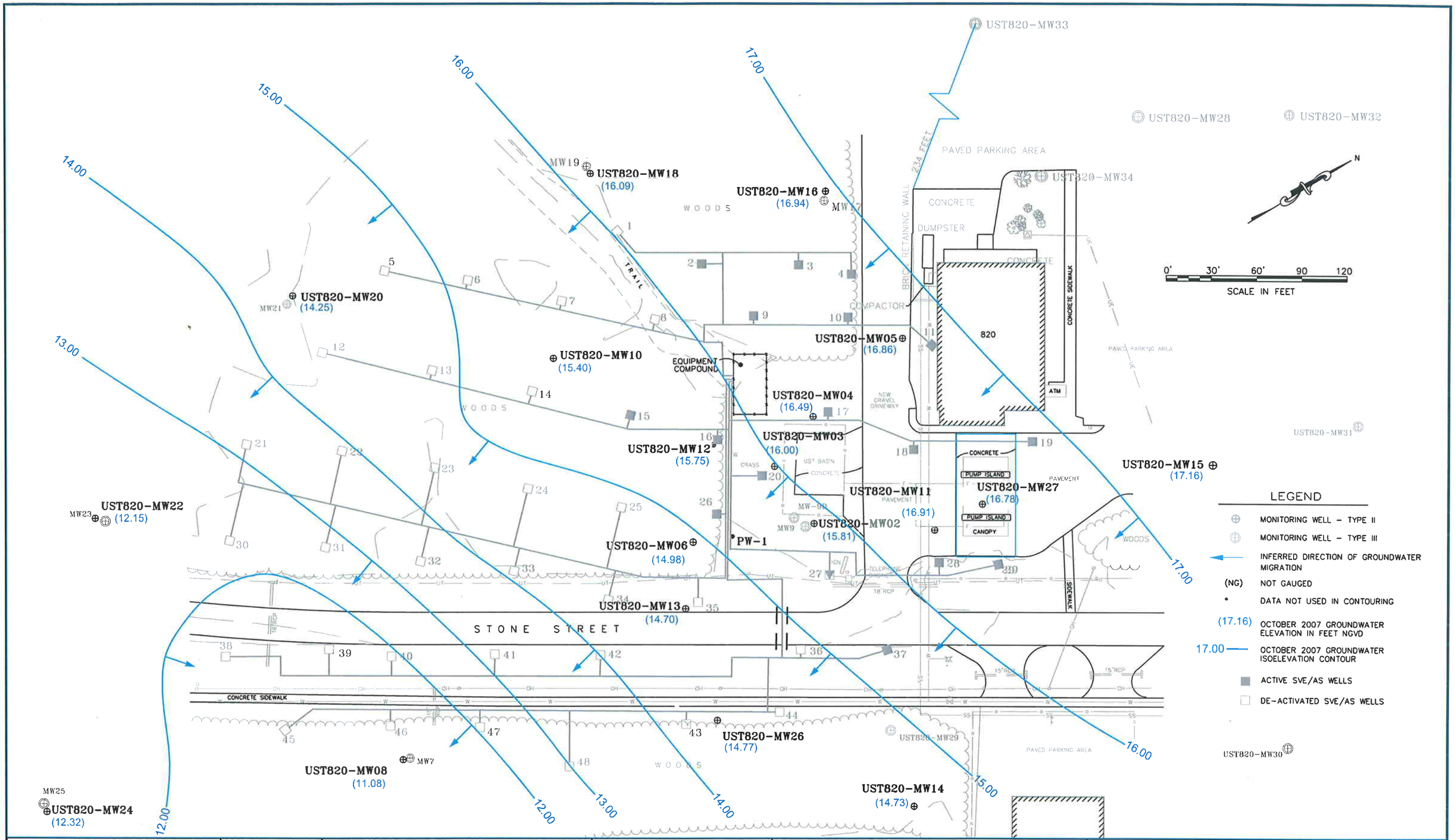
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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 2.1
ANNUAL REPORT 2007-2008
SITE MAP/ REMEDIAL SYSTEM LAYOUT
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 02/26/08

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Plot Date/Time: Mar 17, 2008 - 7:38am
Plotted By: john.lange
Xref:
Image:



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Plot Date/Time: Feb 26, 2008 - 2:56pm
Plotted By: john.lange
Xref :
Image :

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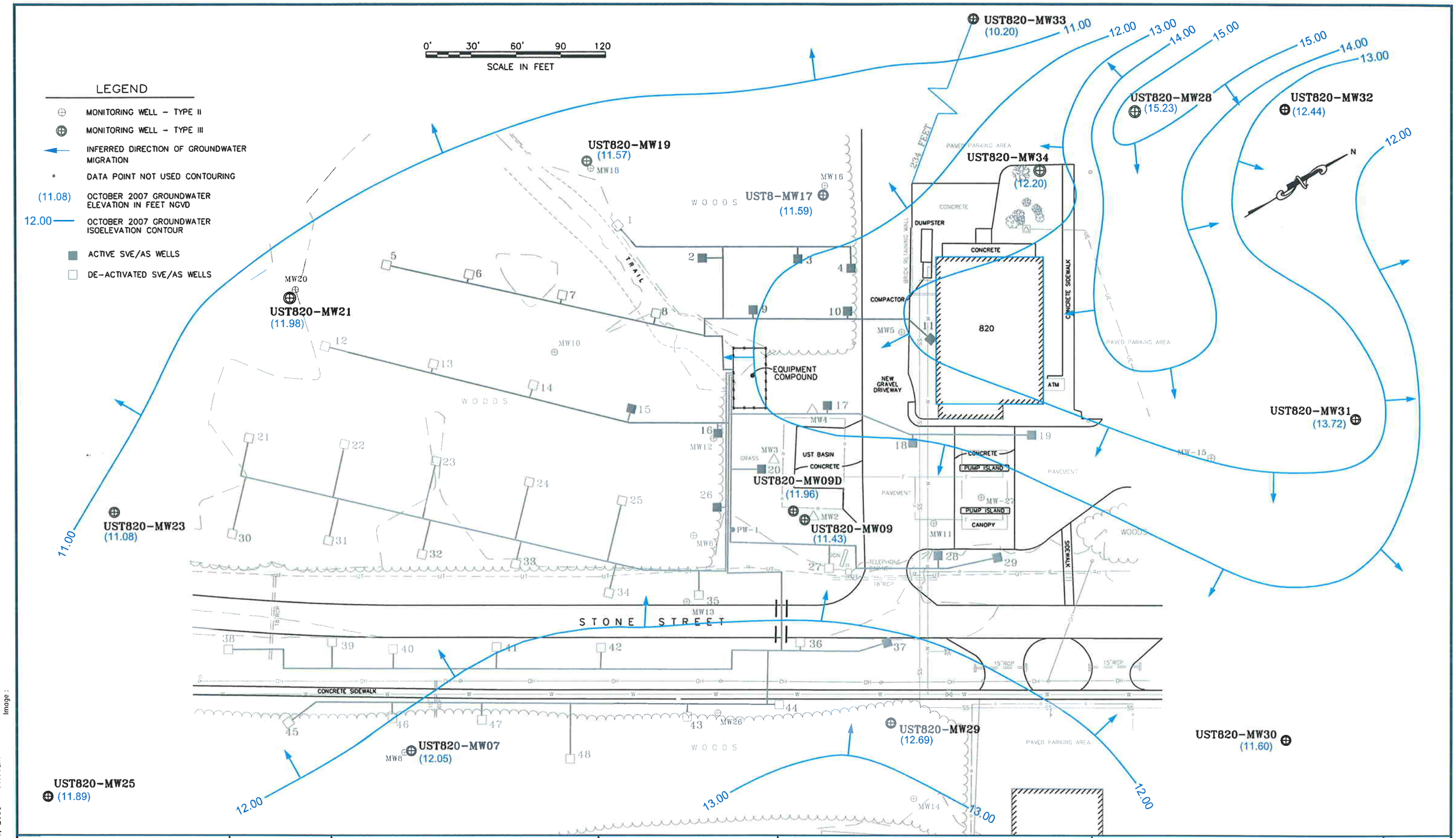
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.1
ANNUAL REPORT 2007-2008
GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 2007
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

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MARINE CORPS BASE, CAMP LEJEUNE, N.C.

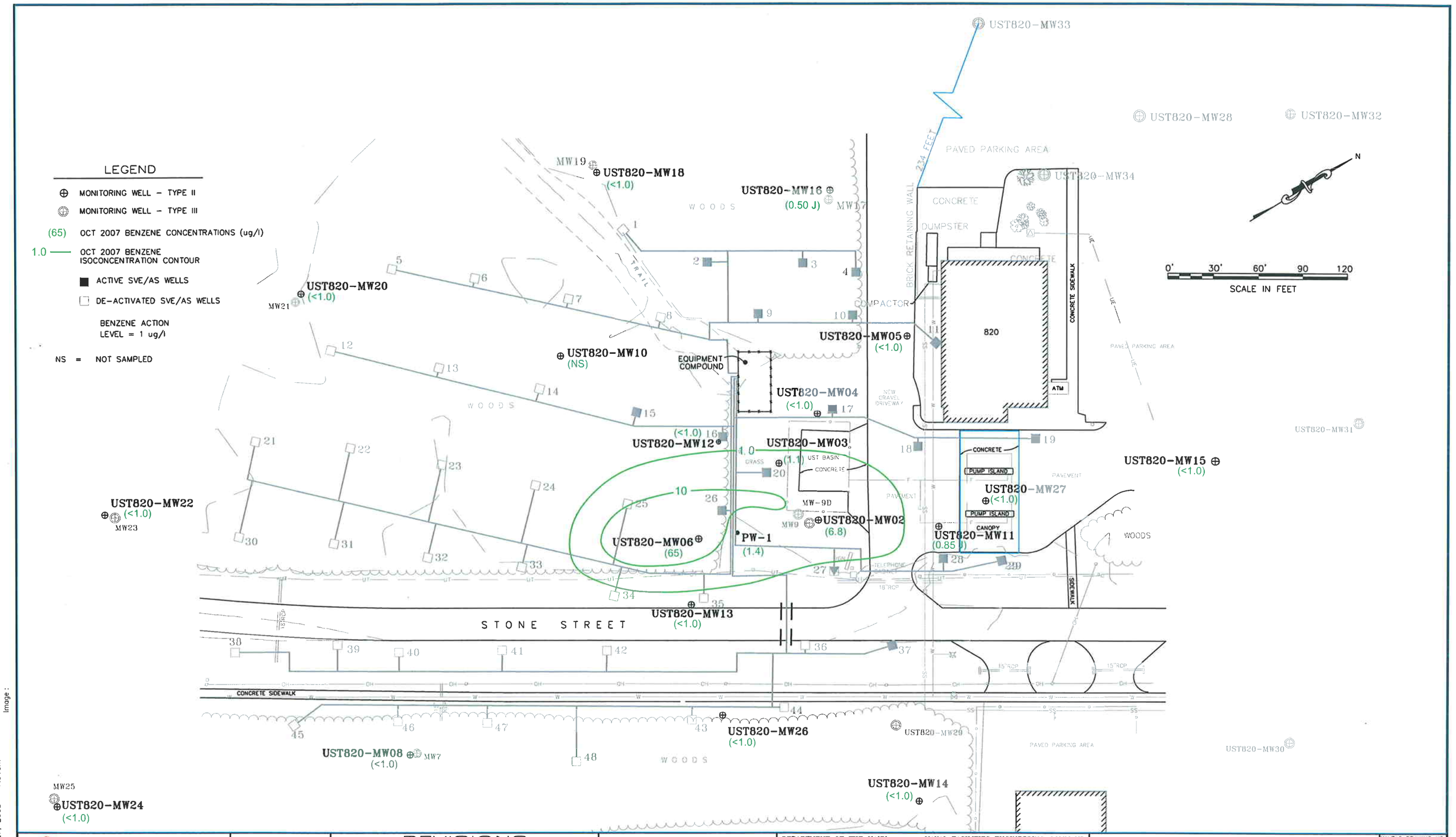
FIGURE 4.2
ANNUAL REPORT 2007-2008
GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 2007
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08

File: Q:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-2-GW EL-OCT-2008.DWG
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Plotted By: John.lange Image :



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Plotted By: john.lange
Xref :
Image :

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

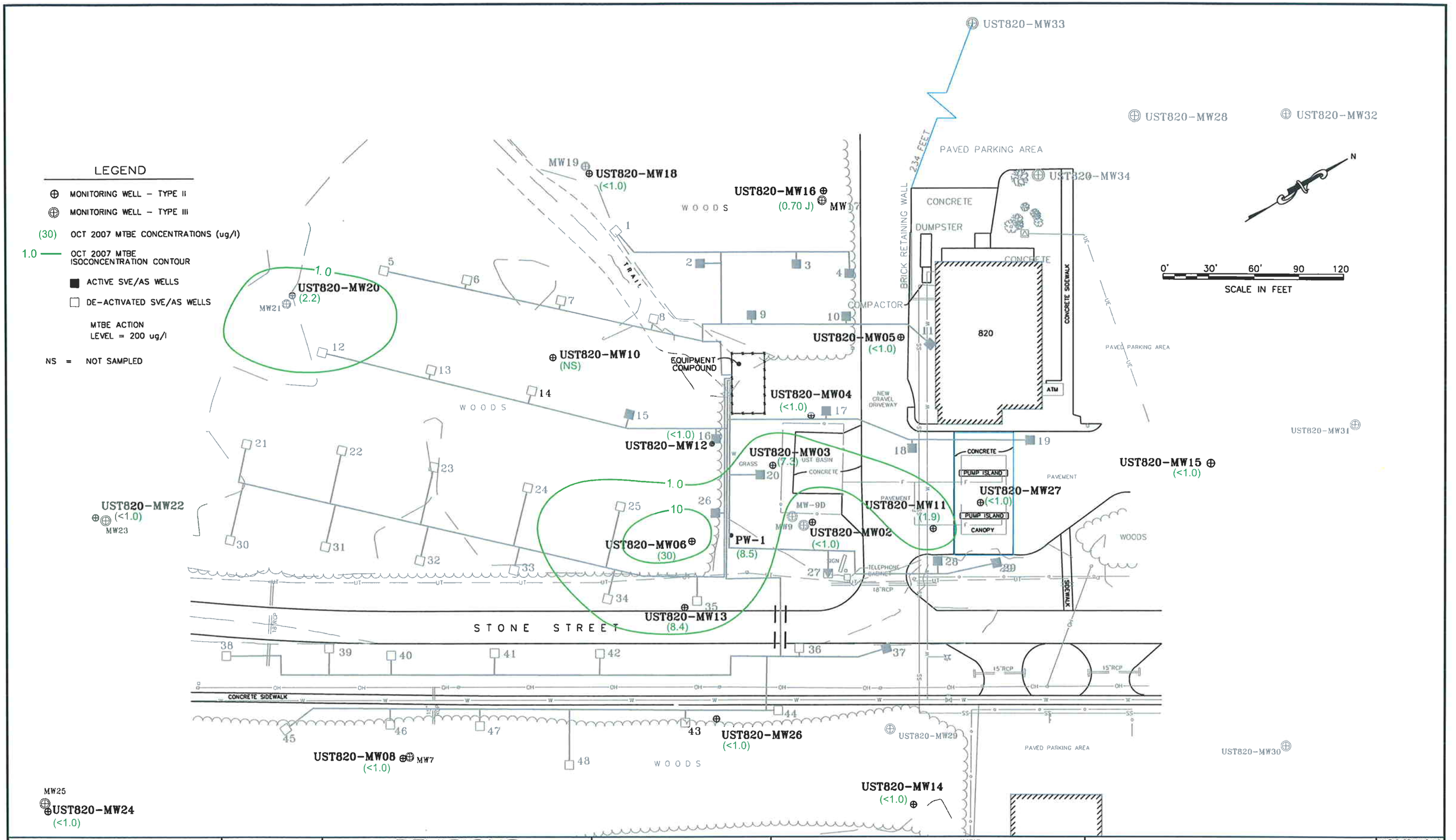
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.3
ANNUAL REPORT 2007-2008
BENZENE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08



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APPROVED: ____ SR. PROJECT ENGINEER DATE: ____	DRAWN: J. LANGE						
APPROVED: ____ DEPT. MANAGER DATE: ____	DESIGNED: B. BROWN						
	CHECKED: R. KENYON						
	CHECKED: ____						

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.4
ANNUAL REPORT 2007-2008
MTBE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08

L:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-4-MTBE-OCT-2008.dwg, Layout1, 2/28/2008 10:40:50 AM

LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (4,632) OCT 2007 TOTAL BTEX CONCENTRATIONS (ug/l)
- 10 — OCT 2007 TOTAL BTEX ISOCONCENTRATION CONTOUR
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS
- NS = NOT SAMPLED

UST820-MW33
UST820-MW28
UST820-MW32
PAVED PARKING AREA
234 FEET
BRICK RETAINING WALL
UST820-MW34
CONCRETE
DUMPSTER
CONCRETE
CONCRETE SIDEWALK
820
ATM
N
0' 30' 60' 90 120
SCALE IN FEET
MW19
UST820-MW18 (<6.0)
UST820-MW16 ⊕ (<6.0) MW17
WOODS
TRAIL
COMPACTOR
UST820-MW05 ⊕ (<6.0)
UST820-MW20 (<6.0)
MW21
UST820-MW10 (NS)
EQUIPMENT COMPOUND
UST820-MW04 (<6.0)
NEW GRAVEL DRIVEWAY
WOODS
UST820-MW31
UST820-MW12 ⊕ (<6.0)
UST820-MW03 (199)
UST BASIN
GRASS
CONCRETE
PUMP ISLAND
CANOPY
PAVEMENT
UST820-MW15 ⊕ (<6.0)
UST820-MW27 ⊕ (<6.0)
UST820-MW11 (1,453)
UST820-MW02 (187)
MW-9D
MW9
PW-1 (68)
UST820-MW06 (4,632) ⊕
10
100
1,000
UST820-MW22 ⊕ (<6.0)
MW23
UST820-MW13 ⊕ (127)
STONE STREET
WOODS
SIDEWALK
18"RCP
15"RCP
CONCRETE SIDEWALK
UST820-MW26 (<6.0)
UST820-MW29
PAVED PARKING AREA
UST820-MW30
UST820-MW08 ⊕ MW7 (<6.0)
WOODS
UST820-MW14 (<6.0) ⊕
MW25
UST820-MW24 (<6.0)

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SUBMITTED: ____ PROJECT MANAGER: ____ DATE: ____	CADD FILE: ____	ZONE	REV.	DESCRIPTION	BY	DATE	APP.
APPROVED: ____ SR. PROJECT ENGINEER ____ DATE: ____	DRAWN: J. LANGE						
APPROVED: ____ DEPT. MANAGER ____ DATE: ____	DESIGNED: B. BROWN						
	CHECKED: R. KENYON						
	CHECKED: ____						

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.5
ANNUAL REPORT 2007-2008
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/25/08

L:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-5-BTEX-OCT-2008.dwg, Layout1, 2/28/2008 10:36:20 AM

LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (322) OCT 2007 NAPHTHALENE CONCENTRATIONS (ug/l)
- 10 — OCT 2007 NAPHTHALENE ISOCONCENTRATION CONTOUR
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS

NAPHTHALENE ACTION LEVEL = 21 ug/l

NS = NOT SAMPLED

UST820-MW33
UST820-MW28
UST820-MW32
UST820-MW34
UST820-MW31
UST820-MW30
UST820-MW29
MW19
UST820-MW18 (<4.9)
UST820-MW16 ⊕ (<4.9) MW17
UST820-MW20 (<4.9)
MW21
UST820-MW10 (NS)
UST820-MW05 ⊕ (<4.9)
UST820-MW04 (<4.9)
UST820-MW12 ⊕ (<4.9)
UST820-MW03 (<4.9)
UST820-MW15 ⊕ (<4.9)
UST820-MW27 ⊕ (<4.9)
UST820-MW11 (188)
UST820-MW06 (322)
UST820-MW02 (29.5)
PW-1 (<4.9)
MW-9D
MW9
UST820-MW22 (<4.9)
MW23
UST820-MW13 (2.9 J)
UST820-MW26 (<4.9)
UST820-MW08 ⊕ MW7 (<4.9)
MW25
UST820-MW24 (<4.9)
UST820-MW14 (<4.9) ⊕

PAVED PARKING AREA
234 FEET
BRICK RETAINING WALL
CONCRETE
DUMPSTER
COMPACTOR
820
ATM
CONCRETE SIDEWALK
EQUIPMENT COMPOUND
NEW GRAVEL DRIVEWAY
CONCRETE PUMP ISLAND
CANOPY
PAVEMENT
WOODS
TRAIL
GRASS
CONCRETE
STONE STREET
TELEPHONE CABINET
18"RCP
15"RCP
SIDEWALK
UT
OH
W
SS

N

0' 30' 60' 90 120
SCALE IN FEET

L:\LEJEUNE-6-05\RAC_JV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-6-NAPH-OCT-2008.dwg, Layout1, 2/28/2008 10:43:07 AM

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

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

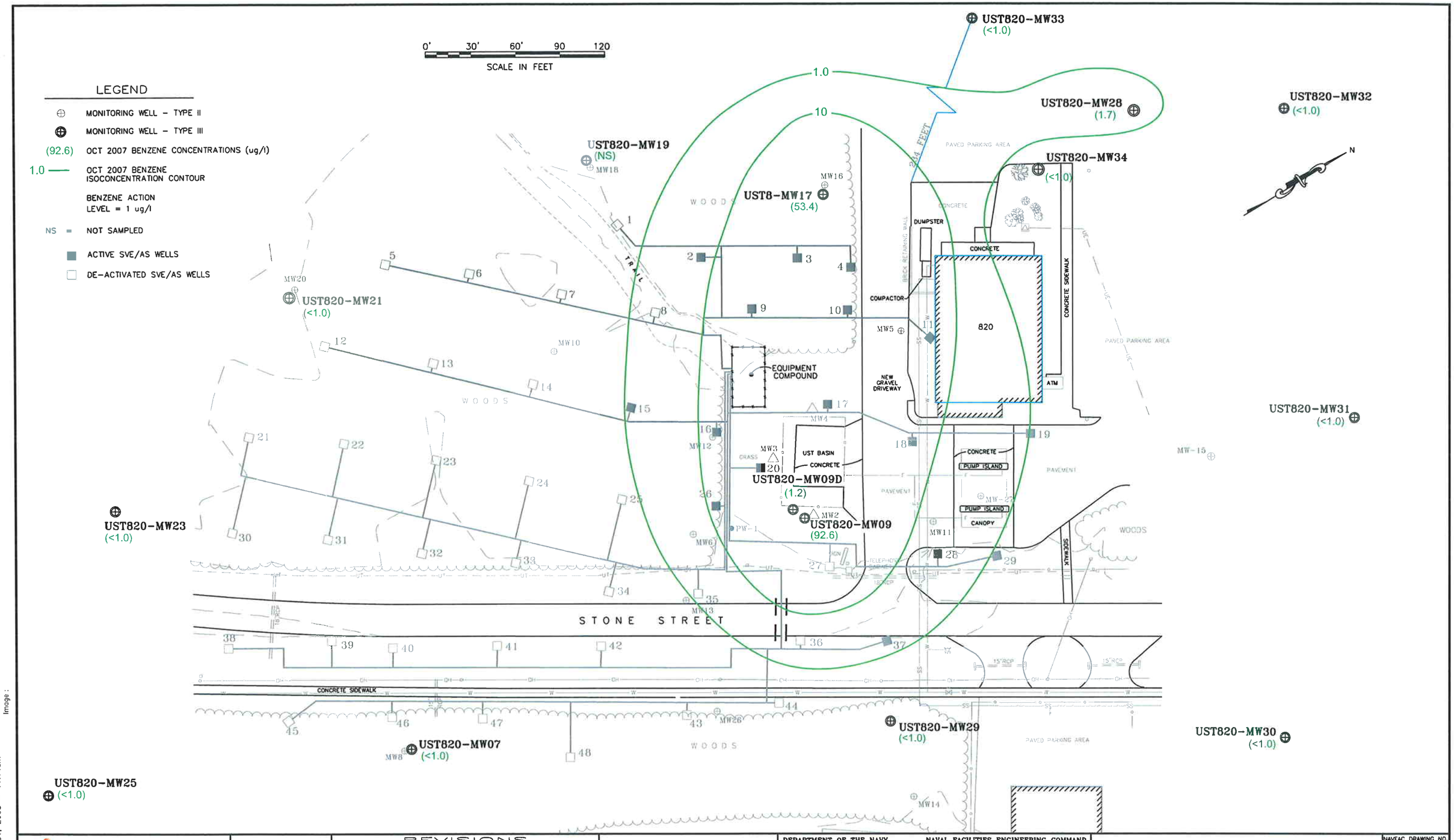
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.6
ANNUAL REPORT 2007-2008
NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/25/08



File: Q:\LEJEUNE-6-05\PAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-7-BEN T3-OCT-2008.DWG
Plot Date/Time: Mar 31, 2008 - 11:14am
Plotted By: john.lange
Xref :
Image :

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

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

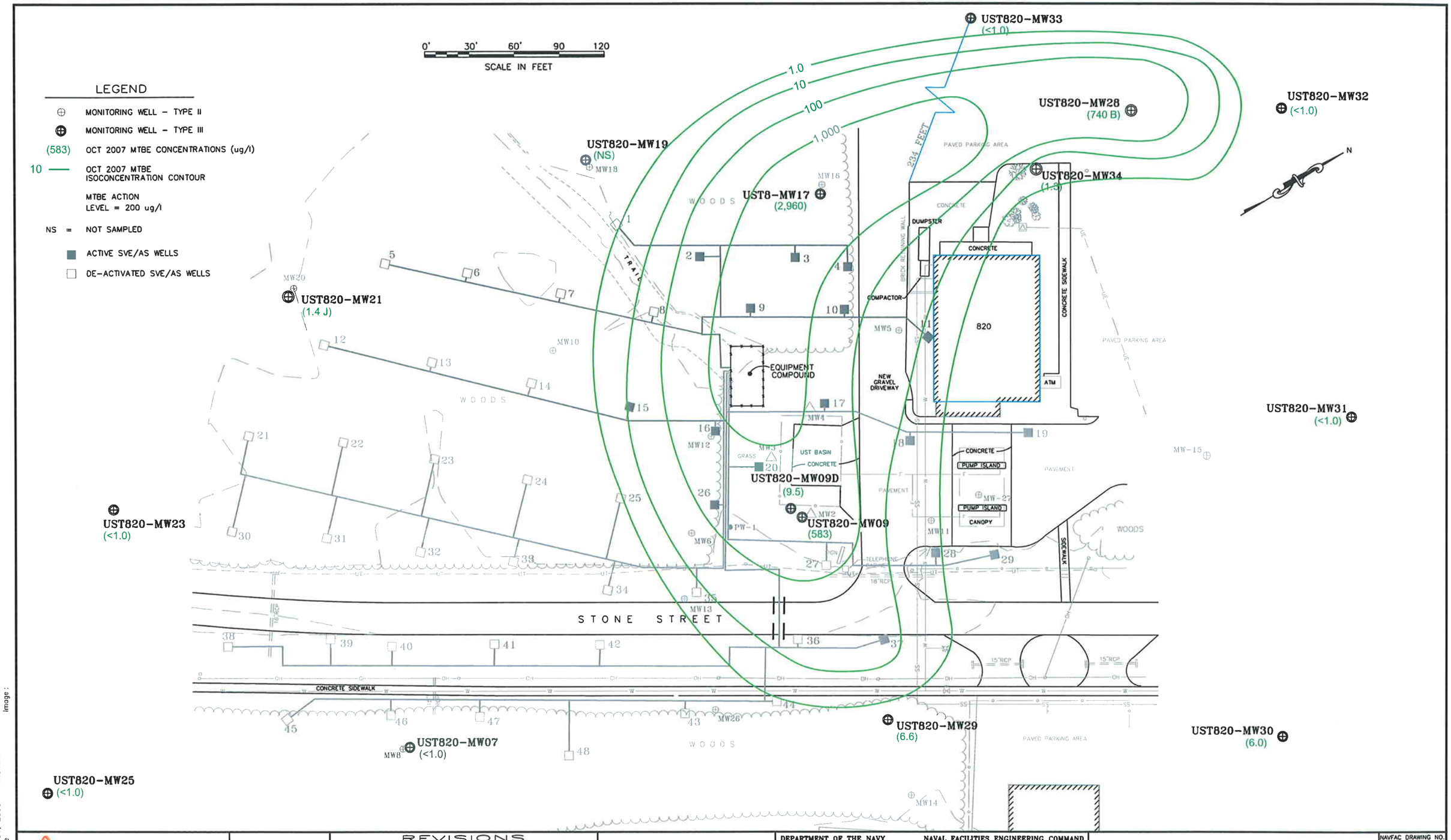
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.7
ANNUAL REPORT 2007-2008
BENZENE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08



File: Q:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-8-MTBE T3-OCT-2008.DWG
Plot Date/Time: Mar 31, 2008 - 11:54am Xref :
Plotted By: john.lange Image :

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

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.8
ANNUAL REPORT 2007-2008
MTBE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08

0' 30' 60' 90 120
SCALE IN FEET

LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (104) OCT 2007 TOTAL BTEX CONCENTRATIONS (ug/l)
- 10 —— OCT 2007 TOTAL BTEX ISOCONCENTRATION CONTOUR
- NS = NOT SAMPLED
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS

UST820-MW33 (<6.0)
UST820-MW28 (1.7)
UST820-MW32 (<6.0)
UST820-MW19 (NS)
UST8-MW17 (53.4)
UST820-MW34 (<6.0)
UST820-MW21 (<6.0)
UST820-MW31 (<1.0)
UST820-MW09D (151)
UST820-MW09 (104)
UST820-MW23 (<6.0)
UST820-MW07 (<6.0)
UST820-MW29 (<6.0)
UST820-MW30 (<6.0)
UST820-MW25 (<6.0)

234 FEET
PAVED PARKING AREA
CONCRETE
DUMPSTER
BRICK RETAINING WALL
COMPACTOR
820
CONCRETE SIDEWALK
ATM
EQUIPMENT COMPOUND
NEW GRAVEL DRIVEWAY
UST BASIN
CONCRETE
PUMP ISLAND
CANOPY
PAVEMENT
WOODS
TRAIL
STONE STREET
CONCRETE SIDEWALK
SIDEWALK
15"RCP
18"RCP
TELEPHONE MANHOLE
MW-15
MW-27
MW14
MW20
MW10
MW16
MW18
MW5
MW4
MW3
MW2
MW6
MW11
MW13
MW8
MW26
PW-1

File: Q:\LEJEUNE-6-05\PAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-9-BTEX T3-OCT-2008.DWG
Plot Date/Time: Mar 31, 2008 - 12:07pm
Plotted By: john.lange
Xref :
Image :

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

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

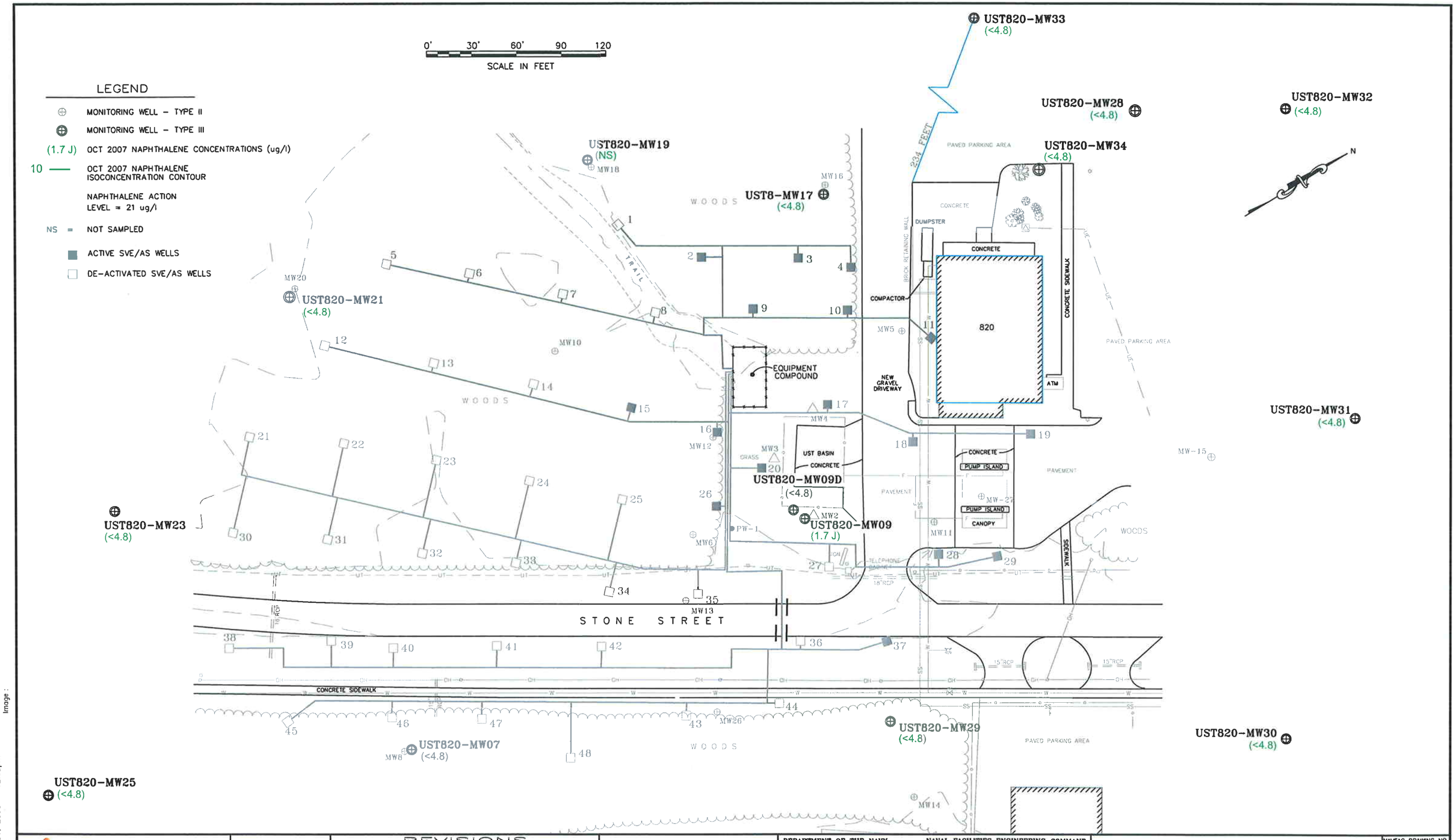
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.9
ANNUAL REPORT 2007-2008
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/25/08



File: Q:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2008 AMR\FIG-4-10-NAPH T3-OCT-2008.DWG
Plot Date/Time: Mar 31, 2008 - 12:02pm
Plotted By: john.lange
Xref :
Image :

Shaw Environmental, Inc.

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

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.10
ANNUAL REPORT 2007-2008
NAPHTHALENE CONCENTRATIONS IN GROUNDWATER
OCTOBER 2007
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/25/08

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FIELD LOGS

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW02
SAMPLE NO.UST820-MW02

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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	5.34	7.22	7.15	7.16			(STD)
Specific Conductivity	8.873	0.652	0.644	0.650			(m S/cm°)
Turbidity (Turb.)	123.0	12.4	10.3	0			(NTU)
Dissolved Oxygen (DO)	3.77	2.42	0.70	0.50			(g/l)
Temperature (Temp)	24.17	24.28	24.34	24.38			(°C)
ORP	-39.7	-113.9	-166.9	-197.2			

Depth to Bottom	220.00	(In) (Minus)	Depth to Water	197.52	(In)	=	72.48	HT (in)
Depth to Bottom	22.50	(Ft) (Minus)	Depth to Water	16.46	(Ft)	=	6.04	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			72.48	1	3.14	227	.0043	0.9		2.9	3
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW02	3-40mL	HCL
Pb	UST820-MW02	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]
OTHER: ☐

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW 03	
SAMPLE NO.UST820-MW 03	

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/12/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1530
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.64	6.81	6.83				(STD)
Specific Conductivity	1.825	1.747	1.718				(m S/cm°)
Turbidity (Turb.)	164.9	0	0				(NTU)
Dissolved Oxygen (DO)	4.66	1.90	1.77				(g/l)
Temperature (Temp)	24.83	24.86	24.95				(°C)
ORP	-65.4	-54.2	<82.0				

Depth to Bottom	271.80	(In) (Minus)	Depth to Water	197.04	(In)	=	74.76	HT (in)
Depth to Bottom	22.65	(Ft) (Minus)	Depth to Water	16.42	(Ft)	=	6.23	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			74.76	1	3.14	935	.0043	4.0		12.1	12
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW04	3-40mL	HCL
Pb	UST820-MW04	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW04
SAMPLE NO.UST820-MW04

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
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	5.22	4.43	4.43	4.43			(STD)
Specific Conductivity	0.677	0.595	0.586	0.579			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	4.68	2.42	2.22	2.14			(g/l)
Temperature (Temp)	26.21	26.03	26.27	26.32			(°C)
ORP	18.6	37.2	37.1	36.6			

Depth to Bottom	271.80	(In) (Minus)	Depth to Water	196.56	(In)	=	75.24	HT (in)
Depth to Bottom	22.65	(Ft) (Minus)	Depth to Water	16.38	(Ft)	=	6.27	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			75.24	1	3.14	945	.0043	4.1		12.2	13
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW04	3-40 mL	HCL
Pb	UST820-MW04	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 05
SAMPLE NO.UST820-MW 05

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
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							(STD)
Specific Conductivity							(m S/cm°)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom	164.40	(In) (Minus)	Depth to Water	156.84	(In)	=	7.56	HT (in)
Depth to Bottom	13.70	(Ft) (Minus)	Depth to Water	13.07	(Ft)	=	0.63	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			7.56	1	3.14	24	.0043	0.1		0.3	0.025
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW05	3-40mL	HCL
Pb	UST820-MW05	1-250mL	HNO3

COMMENTS: Purged Dry NO Readings Taken
Allowed to Recovered & Sampled

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 06
SAMPLE NO.UST820-MW 06

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/21/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0950
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.19	6.41	6.44	6.45			(STD)
Specific Conductivity	0.966	0.961	0.975	0.981			(m S/cm°)
Turbidity (Turb.)	27.4	24.7	10.3	6.6			(NTU)
Dissolved Oxygen (DO)	3.74	1.18	1.15	1.15			(g/l)
Temperature (Temp)	20.78	20.86	20.95	20.95			(°C)
ORP	-123.9	-141.9	-142.7	-142.1			

Depth to Bottom	339.96	(In) (Minus)	Depth to Water	201.24	(In)	=	138.72	HT (in)
Depth to Bottom	28.33	(Ft) (Minus)	Depth to Water	16.77	(Ft)	=	11.56	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			138.72	1	3.14	436	.0043	1.9		5.6	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW06	3-40mL	HCL
Pb	UST820-MW06	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW07
SAMPLE NO.UST820-MW 07

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/24/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1515
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.79	5.57	5.26	5.26			(STD)
Specific Conductivity	0.231	0.229	0.287	0.221			(m S/cm^6)
Turbidity (Turb.)	179.4	12.5	0	0			(NTU)
Dissolved Oxygen (DO)	5.78	2.21	0.77	0.39			(g/l)
Temperature (Temp)	22.85	22.97	23.04	23.07			(°C)
ORP	221.4	180.1	122.4	97.5			

Depth to Bottom	285.60	(In) (Minus)	Depth to Water	177.72	(In)	=	107.88	HT (in)
Depth to Bottom	23.80	(Ft) (Minus)	Depth to Water	14.81	(Ft)	=	8.99	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			107.88	1	3.14	339	.0043	1.5		4.4	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW07	3-40 mL	HCL
PB	UST820-MW07	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW08	
SAMPLE NO.UST820-MW08	
PROJECT LOCATION: Camp Lejeune	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 10/24/07
TIME 1615
☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.23	4.57	4.06	3.81			(STD)
Specific Conductivity	0.521	0.516	0.509	0.509			(m S/cm°)
Turbidity (Turb.)	12.5	0	0	0			(NTU)
Dissolved Oxygen (DO)	6.28	3.87	2.57	1.47			(g/l)
Temperature (Temp)	20.38	21.98	22.37	23.36			(°C)
ORP	246.8	248.7	~~250~~ 251.6	251.7			

Depth to Bottom	590.40	(In) (Minus)	Depth to Water	188.64	(In)	=	401.76	HT (in)
Depth to Bottom	49.20	(Ft) (Minus)	Depth to Water	15.72	(Ft)	=	33.48	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			401.76	1	3.14	1262	.0043	5.4		16.3	17
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW08	3-40mL	HCL
Pb	UST820-MW08	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW09	
SAMPLE NO.UST820-MW09	
PROJECT LOCATION: Camp Lejeune	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 10/23/07
TIME 1006
☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.13	3.11	3.09	3.08			(STD)
Specific Conductivity	7.522	7.614	7.653	7.654			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	3.62	1.04	0.65	0.53			(g/l)
Temperature (Temp)	23.96	23.75	23.73	23.77			(°C)
ORP	557.0	557.3	557.0	557.1			

Depth to Bottom	615.6	(In) (Minus)	Depth to Water	237.36	(In)	=	378.24	HT (in)
Depth to Bottom	51.30	(Ft) (Minus)	Depth to Water	19.78	(Ft)	=	31.52	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			378.24	1	3.14	1187	.0043	5.1		15.3	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW09	3-40mL	HCL
Pb	UST820-MW09	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW09D
SAMPLE NO.UST820-MW09D

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/21/07
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	6.68	6.79	6.98	6.99			(STD)
Specific Conductivity	0.624	0.695	0.697	~~0.698~~	0.696		(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	6.31	5.39	4.51	4.60			(g/l)
Temperature (Temp)	23.65	23.77	23.94	24.37			(°C)
ORP	-36.7	-22.1	-10.7	-10.1			

Depth to Bottom	1206.00	(In) (Minus)	Depth to Water	246.12	(In)	=	953.88	HT (in)
Depth to Bottom	100.00	(Ft) (Minus)	Depth to Water	20.51	(Ft)	=	79.49	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			953.88	1	3.14	2995	.0043	12.8		38.6	37
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW09D	3-40mL	HCl
Pb	UST820-MW09D	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED: | DRUM: ☐ | DRUM# | SITE TREATMENT: [X]

OTHER: ☐

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW 10	
SAMPLE NO.UST820-MW10	

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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)							(g/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: Extremely Bubbling could not sample

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 11
SAMPLE NO.UST820-MW 11

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
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	5.29	5.26	5.12	5.17			(STD)
Specific Conductivity	0.793	0.741	0.626	0.586			(m S/cm°)
Turbidity (Turb.)	26.4	0.5	0	0			(NTU)
Dissolved Oxygen (DO)	3.16	0.64	0.60	0.80			(g/l)
Temperature (Temp)	26.50	26.76	27.48	27.49			(°C)
ORP	-119.1	-122.5	-126.8	-142.4			

Depth to Bottom	279.60	(In) (Minus)	Depth to Water	146.52	(In)	=	133.08	HT (in)
Depth to Bottom	23.30	(Ft) (Minus)	Depth to Water	12.21	(Ft)	=	11.09	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			133.08	1	3.14	418	.0043	1.8		5.4	5.5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW11	3-40 mL	HCl
Pb	UST820-MW11	1-250mL	HNO_3

COMMENTS: Duplicate Sample Taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW 12	
SAMPLE NO.UST820-MW 12	

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
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	6.31	4.96	4.58	4.52			(STD)
Specific Conductivity	0.924	0.754	0.725	0.733			(m S/cm°)
Turbidity (Turb.)	946.4	978	255.4	15.5			(NTU)
Dissolved Oxygen (DO)	5.42	2.04	1.41	1.44			(g/l)
Temperature (Temp)	21.13	21.30	21.41	21.44			(°C)
ORP	168.7	191.0	172.6	161.9			

Depth to Bottom	305.28	(In) (Minus)	Depth to Water	189.00	(In)	=	116.28	HT (in)
Depth to Bottom	25.44	(Ft) (Minus)	Depth to Water	15.75	(Ft)	=	9.69	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			116.28	1	3.14	365	.0043	1.6		4.7	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW12	3-40 mL	HCL
Pb	UST820-MW12	1-250mL	HNO3

COMMENTS: Biosparge Equipment in well

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW13
SAMPLE NO.UST820-MW13

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0930
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.52	5.53	5.40	5.28			(STD)
Specific Conductivity	0.733	0.657	0.625	0.711			(m S/cm^c)
Turbidity (Turb.)	15.5	43.7	13.9	0			(NTU)
Dissolved Oxygen (DO)	1.44	1.63	3.45	4.82			(g/l)
Temperature (Temp)	21.44	21.67	21.92	22.10			(°C)
ORP	161.9	-133.3	-70.0	-22.0			

Depth to Bottom	276.00	(In) (Minus)	Depth to Water	169.20	(In)	=	106.80	HT (in)
Depth to Bottom	23.00	(Ft) (Minus)	Depth to Water	14.10	(Ft)	=	8.90	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			106.80	1	3.14	335	.0043	1.4		4.3	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW13	3-40 mL	HCl
Pb	UST820-MW13	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW14	
SAMPLE NO.UST820-MW14	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No

DATE 10/19/07
TIME 1130

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.88	4.87	4.86	4.86			(STD)
Specific Conductivity	0.373	0.372	0.371	0.371			(m S/cm°)
Turbidity (Turb.)	4.0	0	0	0			(NTU)
Dissolved Oxygen (DO)	3.08	2.29	1.16	0.67			(g/l)
Temperature (Temp)	22.42	21.96	21.56	21.55			(°C)
ORP	-23.0	-68.7	-82.1	-88.4			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	203.04	(In)	=	84.96	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	16.92	(Ft)	=	7.08	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			84.96	1	3.14	267	.0043	1.1		3x	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW14	3-40mL	HCl
Pb	UST820-MW14	1-250mL	HNO3

COMMENTS: Duplicate Sample Taken

PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]

OTHER: ☐

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW15
SAMPLE NO.UST820-MW15

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/15/07
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	7.12	6.17	6.03	5.98			(STD)
Specific Conductivity	0.995	0.950	0.838	0.926			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	5.23	1.06	1.01	1.00			(g/l)
Temperature (Temp)	23.20	23.58	23.21	23.21			(°C)
ORP	-91.3	-80.5	-69.4	-66.4			

Depth to Bottom	285.96	(In) (Minus)	Depth to Water	152.76	(In)	=	133.20	HT (in)
Depth to Bottom	23.83	(Ft) (Minus)	Depth to Water	12.73	(Ft)	=	11.10	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			133.20	1	3.14	418	.0043	1.8		5.4	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW15	3-40mL	HCL
Pb	UST820-MW15	1-250mL	HNO3

COMMENTS: Bio Smag (Organic Growth) IN well

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW16
SAMPLE NO.UST820-MW16

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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	6.13	5.98	5.76	5.63			(STD)
Specific Conductivity	0.223	0.223	0.220	0.221			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	4.29	3.29	1.14	0.69			(g/l)
Temperature (Temp)	20.78	20.56	20.57	20.56			(°C)
ORP	137.4	129.8	113.2	109.0			

Depth to Bottom	296.52	(In) (Minus)	Depth to Water	179.04	(In)	=	117.48	HT (in)
Depth to Bottom	24.71	(Ft) (Minus)	Depth to Water	14.92	(Ft)	=	9.79	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			117.48	1	3.14	369	.0043	1.6		4.8	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW16	3-40 mL	HCL
Pb	UST820-MW16	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER:	125709
PROJECT NAME:	BM 820
WELL NO. UST820-MW	17
SAMPLE NO.UST820-MW	17

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1440
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.71	3.57	3.21	2.97			(STD)
Specific Conductivity	0.651	0.731	0.627	0.627			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	3.97	1.58	0.88	0.41			(g/l)
Temperature (Temp)	20.25	20.37	20.41	20.58			(°C)
ORP	221.8	237.1	249.0	251.1			

Depth to Bottom	619.20	(In) (Minus)	Depth to Water	246.84	(In)	=	372.36	HT (in)
Depth to Bottom	51.60	(Ft) (Minus)	Depth to Water	20.57	(Ft)	=	31.03	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			372.36	1	3.14	1169	.0043	5.0		15.1	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW17	3-40 mL	HCL
Pb	UST820-MW17	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW18
SAMPLE NO.UST820-MW18

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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	5.20	4.24	4.22	4.22			(STD)
Specific Conductivity	0.247	0.217	0.246	~~0.260~~	0.260		(m S/cm°)
Turbidity (Turb.)	24.7	21.4	21.6	22.4			(NTU)
Dissolved Oxygen (DO)	4.54	4.20	3.01	2.80			(g/l)
Temperature (Temp)	22.35	21.25	21.25	21.22			(°C)
ORP	455.7	448.7	466.7	464.3			

Depth to Bottom	302.4	(In) (Minus)	Depth to Water	182.64	(In)	=	119.76	HT (in)
Depth to Bottom	25.20	(Ft) (Minus)	Depth to Water	15.22	(Ft)	=	9.98	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			119.76	1	3.14	376	.0043	1.6		4.8	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW18	3-40mL	HCL
Pb	UST820-MW18	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW 19	
SAMPLE NO.UST820-MW 19	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer / ☐ No

DATE 10/23/07
TIME 1245

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm°)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom	264.48	(In) (Minus)	Depth to Water	253.80	(In)	=	11.28	HT (in)
Depth to Bottom	~~19.57~~ 22.09	(Ft) (Minus)	Depth to Water	~~17.57~~ 21.15	(Ft)	=	0.94	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			11.28	1	3.14	3.5	.0043	0.15		0.45	0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW19	3-40mL	HCL
Pb	UST820-MW19	1-250mL	HNO3

COMMENTS: Purge Dry unable to SAMPLE

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 20
SAMPLE NO.UST820-MW 20

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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			
PH	4.42	4.68	5.05	5.06			(STD)
Specific Conductivity	0.153	0.150	0.87	0.063			(m S/cm°)
Turbidity (Turb.)	33.3	0	0	0			(NTU)
Dissolved Oxygen (DO)	6.57	6.58	6.59	6.59			(g/l)
Temperature (Temp)	20.94	20.87	20.50	20.50			(°C)
ORP	444.9	423.8	382.9	381.3			

Depth to Bottom	292.80	(In) (Minus)	Depth to Water	203.16	(In)	=	89.64	HT (in)
Depth to Bottom	24.40	(Ft) (Minus)	Depth to Water	16.93	(Ft)	=	7.47	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			89.64	1	3.14	281	.0043	1.2		3.6	4
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW20	3-40mL	HCL
Pb	UST820-MW20	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED: | DRUM: ☐ | DRUM# | SITE TREATMENT: [X]

OTHER: ☐

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW21
SAMPLE NO.UST820-MW21

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/23/07
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			
PH	3.73	3.75	3.76	3.76			(STD)
Specific Conductivity	1.457	1.087	0.930	0.930			(m S/cm°)
Turbidity (Turb.)	24.0	0	0	0			(NTU)
Dissolved Oxygen (DO)	2.76	2.21	1.36	0.37			(g/l)
Temperature (Temp)	22.17	21.79	20.80	20.79			(°C)
ORP	449.2	463.5	477.4	479.3			

Depth to Bottom	622.80	(In) (Minus)	Depth to Water	234.12	(In)	=	388.68	HT (in)
Depth to Bottom	51.90	(Ft) (Minus)	Depth to Water	19.51	(Ft)	=	32.39	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			388.68	1	3.14	1220	.0043	5.2		15.7	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW21	3-40mL	HCL
Pb	UST820-MW21	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW22
SAMPLE NO.UST820-MW22

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/24/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1345
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.39	5.08	4.76	4.52			(STD)
Specific Conductivity	0.129	0.082	0.079	0.079			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	6.39	2.89	1.38	0.62			(g/l)
Temperature (Temp)	21.38	21.79	22.06	22.22			(°C)
ORP	129.4	33.3	-17.0	-31.5			

Depth to Bottom	260.52	(In) (Minus)	Depth to Water	232.56	(In)	=	27.96	HT (in)
Depth to Bottom	21.71	(Ft) (Minus)	Depth to Water	19.38	(Ft)	=	2.33	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			27.56	1	3.14	88	.0043	0.4		1.1	2.5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW22	3-40 mL	HCL
Pb	UST820-MW22	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 23
SAMPLE NO.UST820-MW 23

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/24/07
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	4.19	3.31	3.27	3.27			(STD)
Specific Conductivity	0.386	0.321	0.312	0.312			(m S/cm^6)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	2.47	1.76	0.29	0.57			(g/l)
Temperature (Temp)	22.36	21.98	21.22	21.17			(°C)
ORP	9.5	-9.8	-17.5	-17.5			

Depth to Bottom	610.80	(In) (Minus)	Depth to Water	237.36	(In)	=	373.44	HT (in)
Depth to Bottom	50.90	(Ft) (Minus)	Depth to Water	19.78	(Ft)	=	31.12	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			373.44	1	3.14	1173	.0043	5.0		15.1	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW23	3-40 mL	HCL
Pb	UST820-MW23	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW24
SAMPLE NO.UST820-MW24

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/19/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0930
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.83	4.53	4.61	4.54			(STD)
Specific Conductivity	0.695	0.406	0.413	0.423			(m S/cm°)
Turbidity (Turb.)	100.6	85.1	35.1	0			(NTU)
Dissolved Oxygen (DO)	1.81	1.17	0.60	0.38			(g/l)
Temperature (Temp)	21.85	21.36	21.54	21.63			(°C)
ORP	168.6	165.4	149.3	142.9			

Depth to Bottom	301.92	(In) (Minus)	Depth to Water	204.36	(In)	=	97.56	HT (in)
Depth to Bottom	25.16	(Ft) (Minus)	Depth to Water	17.03	(Ft)	=	8.13	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			97.56	1	3.14	306	.0043	1.3		4	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW24	3-40mL	HCL
Pb	UST820-MW24	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]
OTHER: ☐

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709	
PROJECT NAME: BM 820	
WELL NO. UST820-MW25	
SAMPLE NO.UST820-MW25	
PROJECT LOCATION: Camp Lejeune	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 10/19/07
TIME 0830
☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.84	3.67	3.78	3.83			(STD)
Specific Conductivity	0.829	0.734	0.702	0.695			(m S/cm^c)
Turbidity (Turb.)	30.8	0.~~334~~	0	0			(NTU)
Dissolved Oxygen (DO)	4.57	0.94	0.82	0.78			(g/l)
Temperature (Temp)	21.18	20.65	20.95	21.02			(°C)
ORP	227.8	437.8	285.4	269.7			

Depth to Bottom	596.76	(In) (Minus)	Depth to Water	195.48	(In)	=	401.28	HT (in)
Depth to Bottom	49.73	(Ft) (Minus)	Depth to Water	16.29	(Ft)	=	33.44	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			401.28	1	3.14	1260	.0043	5.4		16.3	17
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW25	3-40mL	HCL
PB	UST820-MW25	1-250	HNO3

COMMENTS:

PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]

OTHER: ☐

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 26
SAMPLE NO. UST820-MW 26

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/19/07
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	6.06	5.62	4.57	4.58			(STD)
Specific Conductivity	0.433	0.412	0.400	0.401			(m S/cm^6)
Turbidity (Turb.)	8.7	74.2	5.8	0			(NTU)
Dissolved Oxygen (DO)	6.06	5.61	5.65	5.63			(g/l)
Temperature (Temp)	22.54	21.72	21.93	22.01			(°C)
ORP	122.1	138.7	135.3	134.3			

Depth to Bottom	300.24	(In) (Minus)	Depth to Water	165.12	(In)	=	135.12	HT (in)
Depth to Bottom	25.02	(Ft) (Minus)	Depth to Water	13.76	(Ft)	=	11.26	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			135.12	1	3.14	424	.0043	1.8		5.5	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW26	3-40 mL	HCL
Pb	UST820-MW26	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 27
SAMPLE NO.UST820-MW 27

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/21/07
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							(STD)
Specific Conductivity							(m S/cm^c)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom	169.80	(In) (Minus)	Depth to Water	157.56	(In)	=	12.24	HT (in)
Depth to Bottom	14.15	(Ft) (Minus)	Depth to Water	13.13	(Ft)	=	1.02	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			12.24	1	3.14	38	.0043	0.16		0.49	0.25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW27	3-40mL	HCL
Pb	UST820-MW27	1-250mL	HNO3

COMMENTS: Well Purged Dry no readings Taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 28
SAMPLE NO.UST820-MW 28

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/5/07
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	9.59	9.63	9.79	9.82			(STD)
Specific Conductivity	1,520	1.782	2.661	2.752			(m S/cm°)
Turbidity (Turb.)	10.5	3.2	1.3	0			(NTU)
Dissolved Oxygen (DO)	2.16	1.98	1.93	1.86			(g/l)
Temperature (Temp)	24.21	23.86	22.98	22.63			(°C)
ORP	-102.8	-99.1	-92.8	-92.5			

Depth to Bottom	600.00	(In) (Minus)	Depth to Water	163.44	(In)	=	436.56	HT (in)
Depth to Bottom	50.00	(Ft) (Minus)	Depth to Water	13.62	(Ft)	=	36.38	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			436.56	1	3.14	1371	.0043	5.9		17.7	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW28	3-40 mL	HCL
Pb	UST820-MW28	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 28
SAMPLE NO.UST820-MW 28

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1545
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.35	5.15	4.76	4.37			(STD)
Specific Conductivity	1.019	1.115	1.588	1.640			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	7.20	3.98	2.29	1.30			(g/l)
Temperature (Temp)	23.55	21.98	22.13	22.43			(°C)
ORP	39.0	82.0	128.4	225.6			

Depth to Bottom	602.40	(In) (Minus)	Depth to Water	172.92	(In)	=	429.48	HT (in)
Depth to Bottom	50.20	(Ft) (Minus)	Depth to Water	14.41	(Ft)	=	35.79	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			429.48	1	3.14	1349	.0043	5.8		17.4	18
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW29	3-40mL	HCL
Pb	UST820-MW29	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 30
SAMPLE NO.UST820-MW 30

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/18/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1400
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.27	6.08	6.41	6.46			(STD)
Specific Conductivity	0.834	0.747	0.651	0.683			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	6.03	4.23	2.23	1.95			(g/l)
Temperature (Temp)	24.45	23.40	23.02	23.15			(°C)
ORP	6.2	21.8	2.4	-0.9			

Depth to Bottom	600.00	(In) (Minus)	Depth to Water	212.28	(In)	=	387.72	HT (in)
Depth to Bottom	50.00	(Ft) (Minus)	Depth to Water	17.69	(Ft)	=	32.31	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			387.72	1	3.14	1217	.0043	5.2		15.7	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW30	3-40mL	HCL
Pb	UST820-MW30	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 31
SAMPLE NO.UST820-MW 31

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/15/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0930
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.58	7.85	7.98	8.03			(STD)
Specific Conductivity	1.198	1.183	1.181	1.181			(m S/cm^5)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	5.36	3.67	3.30	2.21			(g/l)
Temperature (Temp)	19.92	19.82	19.84	15.52			(°C)
ORP	-29.0	-29.5	-29.9	-23.7			

Depth to Bottom	610.80	(In) (Minus)	Depth to Water	195.00	(In)	=	415.80	HT (in)
Depth to Bottom	50.90	(Ft) (Minus)	Depth to Water	16.25	(Ft)	=	34.65	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			415.80	1	3.14	1306	.0043	5.6		16.8	17
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW31	3-40mL	HCL
Pb	UST820-MW31	1-250mL	HNO3

COMMENTS: Pressure in well (water ~~Col~~ above screen interval.)

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 32
SAMPLE NO.UST820-MW 32

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/15/07
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	6.36	6.27	6.31	6.42			(STD)
Specific Conductivity	0.962	1.006	0.982	0.976			(m S/cm^c)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	5.33	2.45	1.57	0.78			(g/l)
Temperature (Temp)	24.25	21.29	21.10	21.02			(°C)
ORP	20.0	21.5	18.7	-0.4			

Depth to Bottom	609.36	(In) (Minus)	Depth to Water	200.76	(In)	=	408.60	HT (in)
Depth to Bottom	50.78	(Ft) (Minus)	Depth to Water	16.73	(Ft)	=	34.05	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			408.60	1	3.14	1283	.0043	5.5		16.6	18
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW32	3-40mL	HCL
Pb	UST820-MW32	1-250mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 33
SAMPLE NO.UST820-MW 33

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/24/07
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	6.47	6.59	6.62	6.68			(STD)
Specific Conductivity	1.386	1.387	1.386	1.385			(m S/cm°)
Turbidity (Turb.)	0	0	0	0			(NTU)
Dissolved Oxygen (DO)	2.62	81	0.72	0.18			(g/l)
Temperature (Temp)	25.68	25.18	24.97	24.98			(°C)
ORP	-39.1	-44.5	-48.7	-50.1			

Depth to Bottom	643.32	(In) (Minus)	Depth to Water	253.20	(In)	=	390.12	HT (in)
Depth to Bottom	53.61	(Ft) (Minus)	Depth to Water	21.10	(Ft)	=	32.51	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			390.12	1	3.14	1225	.0043	5.3		15.8	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW33	3-40 mL	HCL
Pb	UST820-MW33	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-MW 34
SAMPLE NO.UST820-MW 34

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/15/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1400
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	9.11	8.76	8.38	8.02			(STD)
Specific Conductivity	1.293	1.299	1.313	1.313			(m S/cm°)
Turbidity (Turb.)	0.3	0	0	0			(NTU)
Dissolved Oxygen (DO)	1.94	1.01	0.38	0.23			(g/l)
Temperature (Temp)	25.64	24.77	24.57	24.97			(°C)
ORP	-31.0	-40.1	-44.6	-44.7			

Depth to Bottom	1200.00	(In) (Minus)	Depth to Water	215.88	(In)	=	984.12	HT (in)
Depth to Bottom	100.75	(Ft) (Minus)	Depth to Water	17.99	(Ft)	=	82.01	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			984.12	1	3.14	3090	.0043	13.3		39.9	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-MW34	3-40 mL	HCL
Pb	UST820-MW34	1-250 mL	HNO3

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709
PROJECT NAME: BM 820
WELL NO. UST820-~~MW~~ PW01
SAMPLE NO.UST820-~~MW~~ PW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 10/17/07
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1630
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.04	7.00	7.87	6.86			(STD)
Specific Conductivity	1.341	1.299	1.265	1.264			(m S/cm°)
Turbidity (Turb.)	103.9	0	0	0			(NTU)
Dissolved Oxygen (DO)	2.27	2.01	1.85	1.84			(g/l)
Temperature (Temp)	23.06	22.67	22.45	22.45			(°C)
ORP	-66.7	-71.4	-73.9	-73.7			

Depth to Bottom	405.60	(In) (Minus)	Depth to Water	199.08	(In)	=	206.52	HT (in)
Depth to Bottom	33.80	(Ft) (Minus)	Depth to Water	16.59	(Ft)	=	17.21	HT (ft)

d = 6 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			206.52	1	3.14	5836	.0043	25.1		75.3	76
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC	UST820-PW01	3-40mL	~~HNO~~ HCl
Pb	UST820-PW01	1-250mL	HNO3

COMMENTS: Bio Smas in well (Organic graft) Well Bumbling

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

APPENDIX B

OCTOBER 2007 GROUNDWATER LABORATORY ANALYTICAL REPORTS

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

03/12/08

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BM 820

125709

Accutest Job Number: F53279

Sampling Date: 10/15/07

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

Client Service contact: Heather Wandrey 407-425-6700

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

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Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F53279

Camp Lejeune-BM 820
Project No: 125709

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F53279-1	10/15/07	09:30	MM	10/17/07	AQ	Ground Water	UST820-MW31
F53279-2	10/15/07	10:45	MM	10/17/07	AQ	Ground Water	UST820-MW32
F53279-3	10/15/07	12:00	MM	10/17/07	AQ	Ground Water	UST820-MW15
F53279-4	10/15/07	13:00	MM	10/17/07	AQ	Ground Water	UST820-MW28
F53279-5	10/15/07	14:00	MM	10/17/07	AQ	Ground Water	UST820-MW34
F53279-6	10/15/07	00:00	MM	10/17/07	AQ	Trip Blank Water	UST820-TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW31		
Lab Sample ID:	F53279-1	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11510.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

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:	UST820-MW31		
Lab Sample ID:	F53279-1	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030457.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
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	
108-20-3	Di-Isopropyl ether	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	95%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

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:	UST820-MW31		
Lab Sample ID:	F53279-1	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/18/07	10/18/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6054
(2) Prep QC Batch: MP13160

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW32		
Lab Sample ID:	F53279-2	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11511.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

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:	UST820-MW32		
Lab Sample ID:	F53279-2	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030460.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
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	
108-20-3	Di-Isopropyl ether	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	95%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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:	UST820-MW32		
Lab Sample ID:	F53279-2	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/18/07	10/18/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6054
(2) Prep QC Batch: MP13160

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW15		
Lab Sample ID:	F53279-3	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11514.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

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:	UST820-MW15		
Lab Sample ID:	F53279-3	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030461.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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:	UST820-MW15		
Lab Sample ID:	F53279-3	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/18/07	10/18/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6054
(2) Prep QC Batch: MP13160

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F53279-4	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11515.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

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:	UST820-MW28		
Lab Sample ID:	F53279-4	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030462.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
Run #2	QQ030647.D	10	10/29/07	NJ	n/a	n/a	GQQ1160

	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	1.7	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	
108-20-3	Di-Isopropyl ether	4.4	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	740 [b]	10	5.0	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%	96%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	98%	73-118%

(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:	UST820-MW28		
Lab Sample ID:	F53279-4	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/18/07	10/18/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6054
(2) Prep QC Batch: MP13160

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW34		
Lab Sample ID:	F53279-5	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11516.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

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:	UST820-MW34		
Lab Sample ID:	F53279-5	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030465.D	1	10/23/07	NJ	n/a	n/a	GQQ1152
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	
108-20-3	Di-Isopropyl ether	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	1.3	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	94%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(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:	UST820-MW34		
Lab Sample ID:	F53279-5	**Date Sampled:**	10/15/07
Matrix:	AQ - Ground Water	**Date Received:**	10/17/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/18/07	10/18/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6054
(2) Prep QC Batch: MP13160

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TRIP BLANK		
Lab Sample ID:	F53279-6	**Date Sampled:**	10/15/07
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/17/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030466.D	1	10/23/07	NJ	n/a	n/a	GQQ1152
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	
108-20-3	Di-Isopropyl ether	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	95%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

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:

- Certification Exceptions
- Chain of Custody

COC Number:
125709-820-101507

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F53279

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
125709	Mark Martin	200935	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voas +Xylenes 602	PAHs 625	Total Lead by 3030C
1	UST820-MW31	10/15/07	9:30		X	UST820-MW31	6	X	X	X
2	UST820-MW32	10/15/07	10:45		X	UST820-MW32	6	X	X	X
3	UST820-MW15	10/15/07	12:00		X	UST820-MW15	6	X	X	X
4	UST820-MW28	10/15/07	13:00		X	UST820-MW28	6	X	X	X
5	UST820-MW34	10/15/07	14:00		X	UST820-MW34	6	X	X	X
6	UST820-Trip Blank	10/15/07			X	Trip Blank	2	X		
7										
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 6	[signature]	FedEx 8619 1827 5633	10/16/07	16:00
2		FX	[signature]	10/17/07	0900
3					

Remarks

14 Day TAT
NEESA LEVEL C

2.2

F53279: Chain of Custody
Page 1 of 2

ACCUTEST
F53279

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F53279 CLIENT: SHAW PROJECT: Camp Lejeune - BM820

DATE/TIME RECEIVED: 10/12/07 0900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.2

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

AIRBILL NUMBERS: 8619 1827 5633

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
- [X] 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 ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: Recived one broken amber bottle for Sample 3 (UST820 - MW 15, 1300)

TECHNICIAN SIGNATURE/DATE: [signature] 10/12/07 TECHNICIAN SIGNATURE/DATE: JC 10-17-07 ASBD 10/03/06

F53279: Chain of Custody
Page 2 of 2

GC/MS 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: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22825-MB	R11509.D	1	10/19/07	NJ	10/18/07	OP22825	SR532

The QC reported here applies to the following samples: Method: EPA 625

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	62%	40-106%
1718-51-0	Terphenyl-d14	79%	39-121%

Blank Spike Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22825-BS	R11508.D	1	10/19/07	NJ	10/18/07	OP22825	SR532

The QC reported here applies to the following samples: Method: EPA 625

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	39.6	79	58-106
208-96-8	Acenaphthylene	50	39.5	79	58-105
120-12-7	Anthracene	50	40.9	82	65-108
56-55-3	Benzo(a)anthracene	50	40.9	82	63-111
50-32-8	Benzo(a)pyrene	50	40.7	81	62-106
205-99-2	Benzo(b)fluoranthene	50	41.7	83	63-109
191-24-2	Benzo(g,h,i)perylene	50	41.9	84	61-111
207-08-9	Benzo(k)fluoranthene	50	39.7	79	64-111
218-01-9	Chrysene	50	41.3	83	64-111
53-70-3	Dibenzo(a,h)anthracene	50	43.0	86	62-112
206-44-0	Fluoranthene	50	43.1	86	65-114
86-73-7	Fluorene	50	40.4	81	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.7	85	61-113
90-12-0	1-Methylnaphthalene	50	38.6	77	52-102
91-57-6	2-Methylnaphthalene	50	40.0	80	56-112
91-20-3	Naphthalene	50	36.4	73	50-104
85-01-8	Phenanthrene	50	40.3	81	65-108
129-00-0	Pyrene	50	39.9	80	60-113

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	74%	39-121%

Matrix Spike Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22825-MS	R11512.D	1	10/20/07	NJ	10/18/07	OP22825	SR532
F53279-2	R11511.D	1	10/20/07	NJ	10/18/07	OP22825	SR532

The QC reported here applies to the following samples: **Method:** EPA 625

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

CAS No.	Compound	F53279-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
83-32-9	Acenaphthene	ND		96.2	72.8	76	58-106
208-96-8	Acenaphthylene	ND		96.2	72.6	76	58-105
120-12-7	Anthracene	ND		96.2	79.1	82	65-108
56-55-3	Benzo(a)anthracene	ND		96.2	79.6	83	63-111
50-32-8	Benzo(a)pyrene	ND		96.2	79.3	82	62-106
205-99-2	Benzo(b)fluoranthene	ND		96.2	77.8	81	63-109
191-24-2	Benzo(g,h,i)perylene	ND		96.2	82.2	85	61-111
207-08-9	Benzo(k)fluoranthene	ND		96.2	79.8	83	64-111
218-01-9	Chrysene	ND		96.2	81.0	84	64-111
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	83.3	87	62-112
206-44-0	Fluoranthene	ND		96.2	84.2	88	65-114
86-73-7	Fluorene	ND		96.2	76.2	79	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	81.3	85	61-113
90-12-0	1-Methylnaphthalene	ND		96.2	69.9	73	52-102
91-57-6	2-Methylnaphthalene	ND		96.2	71.3	74	56-112
91-20-3	Naphthalene	ND		96.2	66.7	69	50-104
85-01-8	Phenanthrene	ND		96.2	78.3	81	65-108
129-00-0	Pyrene	ND		96.2	77.6	81	60-113

CAS No.	Surrogate Recoveries	MS	F53279-2	Limits
4165-60-0	Nitrobenzene-d5	66%	67%	42-108%
321-60-8	2-Fluorobiphenyl	66%	65%	40-106%
1718-51-0	Terphenyl-d14	73%	75%	39-121%

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1152-MB	QQ030454.D	1	10/22/07	NJ	n/a	n/a	GQQ1152

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

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5, F53279-6

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	
108-20-3	Di-Isopropyl ether	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%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Method Blank Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1160-MB	QQ030646.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53279-4

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	97%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Blank Spike Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1152-BS	QQ030453.D	1	10/22/07	NJ	n/a	n/a	GQQ1152

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

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5, F53279-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.0	100	80-120
108-90-7	Chlorobenzene	20	20.4	102	79-118
95-50-1	1,2-Dichlorobenzene	20	19.7	99	76-117
541-73-1	1,3-Dichlorobenzene	20	19.7	99	78-120
106-46-7	1,4-Dichlorobenzene	20	20.2	101	78-117
108-20-3	Di-Isopropyl ether	20	18.8	94	77-122
100-41-4	Ethylbenzene	20	19.8	99	79-121
1634-04-4	Methyl Tert Butyl Ether	20	20.0	100	72-113
108-88-3	Toluene	20	19.0	95	79-121
1330-20-7	Xylenes (total)	60	59.4	99	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Blank Spike Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1160-BS	QQ030645.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53279-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	20	18.5	93	72-113

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	107%	70-120%
98-08-8	aaa-Trifluorotoluene	102%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53279-1MS	QQ030458.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
F53279-1MSD	QQ030459.D	1	10/22/07	NJ	n/a	n/a	GQQ1152
F53279-1	QQ030457.D	1	10/22/07	NJ	n/a	n/a	GQQ1152

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

F53279-1, F53279-2, F53279-3, F53279-4, F53279-5, F53279-6

CAS No.	Compound	F53279-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	19.7	99	19.7	99	0	80-120/10
108-90-7	Chlorobenzene	ND		20	19.9	100	20.0	100	1	79-118/10
95-50-1	1,2-Dichlorobenzene	ND		20	19.2	96	19.5	98	2	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	19.2	96	19.4	97	1	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	19.7	99	20.0	100	2	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	18.5	93	18.5	93	0	77-122/12
100-41-4	Ethylbenzene	ND		20	19.3	97	19.4	97	1	79-121/9
1634-04-4	Methyl Tert Butyl Ether	ND		20	19.7	99	19.4	97	2	72-113/13
108-88-3	Toluene	ND		20	18.7	94	18.7	94	0	79-121/10
1330-20-7	Xylenes (total)	ND		60	57.9	97	58.2	97	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53279-1	Limits
460-00-4	4-Bromofluorobenzene			95%	70-120%
460-00-4	4-Bromofluorobenzene	101%	101%		70-120%
98-08-8	aaa-Trifluorotoluene			99%	73-118%
98-08-8	aaa-Trifluorotoluene	99%	99%		73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53279
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53489-3MS	QQ030659.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
F53489-3MSD	QQ030660.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
F53489-3	QQ030657.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53279-4

CAS No.	Compound	F53489-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.0	90	18.5	93	3	72-113/13

CAS No.	Surrogate Recoveries	MS	MSD	F53489-3	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	100%	98%	73-118%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F53279
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13160
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/18/07

Metal	RL	IDL	MB raw	final
Aluminum	200	48		
Antimony	6.0	3.3		
Arsenic	10	3.7		
Barium	200	5		
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	100		
Chromium	10	.92		
Cobalt	50	1		
Copper	25	1.2		
Iron	300	14		
Lead	5.0	2.1	-0.41	<5.0
Magnesium	5000	100		
Manganese	15	1		
Molybdenum	50	1.2		
Nickel	40	1		
Potassium	10000	100		
Selenium	10	4		
Silver	10	.77		
Sodium	10000	500		
Thallium	10	5.6		
Tin	50	2.4		
Vanadium	50	1		
Zinc	20	5		

Associated samples MP13160: F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53279
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13160
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/18/07 10/18/07

Metal	F53279-1 Original	DUP	RPD	QC Limits	F53279-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	457	500	91.4	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP13160: F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F53279
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13160
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/18/07

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	448	500	89.6	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13160: F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F53279
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13160
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/18/07

Metal	F53279-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13160: F53279-1, F53279-2, F53279-3, F53279-4, F53279-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/15/07

Technical Report for

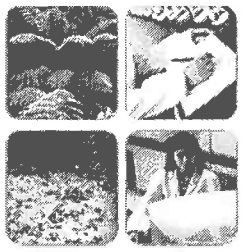
Shaw E & I, Inc.

Camp Lejeune-BM 820

125709

Accutest Job Number: F53380

Sampling Dates: 10/17/07 - 10/19/07



Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 75

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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

Client Service contact: Heather Wandrey 407-425-6700

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

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Test results relate only to samples analyzed.

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Sample Summary

Shaw E & I, Inc.

Job No: F53380

Camp Lejeune-BM 820
Project No: 125709

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F53380-1	10/17/07	15:30	MM	10/20/07	AQ	Ground Water	UST820-MW03
F53380-2	10/17/07	16:30	MM	10/20/07	AQ	Ground Water	UST820-PW01
F53380-3	10/18/07	08:30	MM	10/20/07	AQ	Ground Water	UST820-MW12
F53380-4	10/18/07	09:30	MM	10/20/07	AQ	Ground Water	UST820-MW13
F53380-5	10/18/07	10:30	MM	10/20/07	AQ	Ground Water	UST820-MW05
F53380-6	10/18/07	11:30	MM	10/20/07	AQ	Ground Water	UST820-MW11
F53380-7	10/18/07	11:30	MM	10/20/07	AQ	Ground Water	UST820-MW11D
F53380-8	10/18/07	12:30	MM	10/20/07	AQ	Ground Water	UST820-MW04
F53380-9	10/18/07	14:00	MM	10/20/07	AQ	Ground Water	UST820-MW30
F53380-10	10/18/07	15:45	MM	10/20/07	AQ	Ground Water	UST820-MW28
F53380-11	10/19/07	08:30	MM	10/20/07	AQ	Ground Water	UST820-MW25
F53380-12	10/19/07	09:30	MM	10/20/07	AQ	Ground Water	UST820-MW24
F53380-13	10/19/07	10:30	MM	10/20/07	AQ	Ground Water	UST820-MW26

Sample Summary
(continued)

Shaw E & I, Inc.

Job No: F53380

Camp Lejeune-BM 820
Project No: 125709

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F53380-14	10/19/07	11:30	MM	10/20/07	AQ	Ground Water	UST820-MW14
F53380-15	10/19/07	11:30	MM	10/20/07	AQ	Ground Water	UST820-MW14D
F53380-16	10/19/07	00:00	MM	10/20/07	AQ	Trip Blank Water	UST820-TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW03		
Lab Sample ID:	F53380-1	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11577.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

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:	UST820-MW03		
Lab Sample ID:	F53380-1	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030507.D	1	10/23/07	NJ	n/a	n/a	GQQ1154
Run #2 [a]	QQ030609.D	2	10/26/07	NJ	n/a	n/a	GQQ1158

	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	1.1	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	
108-20-3	Di-Isopropyl ether	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	9.0	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.3	1.0	0.50	ug/l	
108-88-3	Toluene	26.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	163 [b]	6.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	95%	98%	73-118%

(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:	UST820-MW03		
Lab Sample ID:	F53380-1	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07 RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-PW01		
Lab Sample ID:	F53380-2	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11578.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

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:	UST820-PW01		
Lab Sample ID:	F53380-2	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030510.D	1	10/23/07	NJ	n/a	n/a	GQQ1154
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	1.4	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	
108-20-3	Di-Isopropyl ether	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	18.4	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.5	1.0	0.50	ug/l	
108-88-3	Toluene	2.7	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	45.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(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:	UST820-PW01		
Lab Sample ID:	F53380-2	**Date Sampled:**	10/17/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW12		
Lab Sample ID:	F53380-3	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11579.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

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:	UST820-MW12		
Lab Sample ID:	F53380-3	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030555.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW12		
Lab Sample ID:	F53380-3	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	2.3 B	5.0	2.1	ug/l	1	10/20/07	10/20/07 RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW13		
Lab Sample ID:	F53380-4	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11580.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	2.9	4.9	1.2	ug/l	J
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

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:	UST820-MW13		
Lab Sample ID:	F53380-4	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030511.D	1	10/23/07	NJ	n/a	n/a	GQQ1154
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]	14 U	14	14	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	
108-20-3	Di-Isopropyl ether	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	13.5	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.4	1.0	0.50	ug/l	
108-88-3	Toluene	27.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	86.0	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW13		
Lab Sample ID:	F53380-4	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.8	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW05		
Lab Sample ID:	F53380-5	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11581.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

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:	UST820-MW05		
Lab Sample ID:	F53380-5	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030512.D	1	10/24/07	NJ	n/a	n/a	GQQ1154
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW05		
Lab Sample ID:	F53380-5	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	8.8	5.0	2.1	ug/l	1	10/20/07	10/20/07 RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW11		
Lab Sample ID:	F53380-6	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11582.D	1	10/25/07	NJ	10/24/07	OP22893	SR534
Run #2	R11583.D	5	10/26/07	NJ	10/24/07	OP22893	SR534

	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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	1.0	4.9	0.97	ug/l	J
50-32-8	Benzo(a)pyrene	2.3	4.9	0.97	ug/l	J
205-99-2	Benzo(b)fluoranthene	2.7	4.9	0.97	ug/l	J
191-24-2	Benzo(g,h,i)perylene	2.8	4.9	0.97	ug/l	J
207-08-9	Benzo(k)fluoranthene	1.6	4.9	0.97	ug/l	J
218-01-9	Chrysene	1.8	4.9	0.97	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	1.6	4.9	0.97	ug/l	J
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	2.9	4.9	0.97	ug/l	J
90-12-0	1-Methylnaphthalene	38.6	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	37.4	4.9	0.97	ug/l	
91-20-3	Naphthalene	188 [a]	24	5.8	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	1.5	4.9	0.97	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%	66%	42-108%
321-60-8	2-Fluorobiphenyl	69%	67%	40-106%
1718-51-0	Terphenyl-d14	69%	64%	39-121%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW11		
Lab Sample ID:	F53380-6	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030515.D	1	10/24/07	NJ	n/a	n/a	GQQ1154
Run #2	QQ030566.D	10	10/25/07	NJ	n/a	n/a	GQQ1156

	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	0.85	1.0	0.50	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	104 [b]	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	25.6	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
108-20-3	Di-Isopropyl ether	3.6	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	46.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.9	1.0	0.50	ug/l	
108-88-3	Toluene	6.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1400 [b]	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	114%	94%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	91%	73-118%

(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:	UST820-MW11		
Lab Sample ID:	F53380-6	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 B	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW11D		
Lab Sample ID:	F53380-7	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11584.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
Run #2	R11585.D	5	10/26/07	NJ	10/24/07	OP22893	SR534

	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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	57.2	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	71.8	4.9	0.97	ug/l	
91-20-3	Naphthalene	272 [a]	24	5.8	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%	70%	42-108%
321-60-8	2-Fluorobiphenyl	75%	68%	40-106%
1718-51-0	Terphenyl-d14	77%	72%	39-121%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW11D		
Lab Sample ID:	F53380-7	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030521.D	10	10/24/07	NJ	n/a	n/a	GQQ1154
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	5.1	10	5.0	ug/l	J
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	430 U	430	430	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	
108-20-3	Di-Isopropyl ether	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	44.4	10	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
108-88-3	Toluene	13.5	10	5.0	ug/l	
1330-20-7	Xylenes (total)	1310	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW11D		
Lab Sample ID:	F53380-7	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.9 B	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW04		
Lab Sample ID:	F53380-8	Date Sampled:	10/18/07
Matrix:	AQ - Ground Water	Date Received:	10/20/07
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11586.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

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:	UST820-MW04		
Lab Sample ID:	F53380-8	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030516.D	1	10/24/07	NJ	n/a	n/a	GQQ1154
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW04		
Lab Sample ID:	F53380-8	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW30		
Lab Sample ID:	F53380-9	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11587.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

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:	UST820-MW30		
Lab Sample ID:	F53380-9	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030517.D	1	10/24/07	NJ	n/a	n/a	GQQ1154
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	
108-20-3	Di-Isopropyl ether	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	6.0	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	91%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW30		
Lab Sample ID:	F53380-9	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW2~~8~~ 9		
Lab Sample ID:	F53380-10	Date Sampled:	10/18/07
Matrix:	AQ - Ground Water	Date Received:	10/20/07
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11588.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

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:	UST820-MW2β 9		
Lab Sample ID:	F53380-10	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030518.D	1	10/24/07	NJ	n/a	n/a	GQQ1154
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	
108-20-3	Di-Isopropyl ether	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	6.6	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%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW28 9		
Lab Sample ID:	F53380-10	**Date Sampled:**	10/18/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F53380-11	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11589.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

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:	UST820-MW25		
Lab Sample ID:	F53380-11	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030556.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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:	UST820-MW25		
Lab Sample ID:	F53380-11	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW24		
Lab Sample ID:	F53380-12	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11592.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

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:	UST820-MW24		
Lab Sample ID:	F53380-12	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030559.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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	91%		70-120%
98-08-8	aaa-Trifluorotoluene	94%		73-118%

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:	UST820-MW24		
Lab Sample ID:	F53380-12	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.4 B	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F53380-13	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11593.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

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:	UST820-MW26		
Lab Sample ID:	F53380-13	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030560.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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:	UST820-MW26		
Lab Sample ID:	F53380-13	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F53380-14	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11594.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

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:	UST820-MW14		
Lab Sample ID:	F53380-14	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030561.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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	94%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW14		
Lab Sample ID:	F53380-14	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14D		
Lab Sample ID:	F53380-15	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11595.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

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:	UST820-MW14D		
Lab Sample ID:	F53380-15	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030562.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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	95%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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:	UST820-MW14D		
Lab Sample ID:	F53380-15	**Date Sampled:**	10/19/07
Matrix:	AQ - Ground Water	**Date Received:**	10/20/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/20/07	10/20/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6062
(2) Prep QC Batch: MP13189

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TRIP BLANK		
Lab Sample ID:	F53380-16	**Date Sampled:**	10/19/07
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/20/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030565.D	1	10/25/07	NJ	n/a	n/a	GQQ1156
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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:
125709-820-101907-1

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F53380

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
125709	Mark Martin	200935	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Joe Colella		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voas +Xylenes 602	PAHs 625	Total Lead by 3030C										
1	UST820-MW03	10/17/07	15:30		X	UST820-MW03	6	X	X	X										
2	UST820-PW01	10/17/07	16:30		X	UST820-PW01	6	X	X	X										
3	UST820-MW12	10/18/07	8:30		X	UST820-MW12	6	X	X	X										
4	UST820-MW13	10/18/07	9:30		X	UST820-MW13	6	X	X	X										
5	UST820-MW05	10/18/07	10:30		X	UST820-MW05	6	X	X	X										
6	UST820-MW11	10/18/07	11:30		X	UST820-MW11	6	X	X	X										
7	UST820-MW11D	10/18/07	11:30		X	UST820-MW11Dup	6	X	X	X										
8	UST820-MW04	10/18/07	12:30		X	UST820-MW04	6	X	X	X										
9	UST820-MW30	10/18/07	14:00		X	UST820-MW30	6	X	X	X										
10	UST820-MW28	10/18/07	15:45		X	UST820-MW28	6	X	X	X										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 10		FedEx	10/19/07	16:00
2		FX	J. Oster	10/20/07	0900
3					

Remarks

14 Day TAT

NEESA LEVEL C

FedEx 8626 7690 4939, 8626 7690 4926, 8626 7690 4917, 8626 7690 4940

1.0, 1.4, 2.6, 2.0

COC Number:
125709-820-101907-2

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F53380

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC

Project Number	Contact	P.O. Number	Reviewed by
125709	Mark Martin	200935	

Client Rep	Project Manager
US NAVY - LANTDIV	Joe Colella

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: Voas +Xylenes 602	PAHs 625	Total Lead by 3030C
1	UST820-MW25	10/19/07	8:30		X	UST820-MW25	6	X	X	X
2	UST820-MW24	10/19/07	9:30		X	UST820-MW24	6	X	X	X
3	UST820-MW26	10/19/07	10:30		X	UST820-MW26	6	X	X	X
4	UST820-MW14	10/19/07	11:30		X	UST820-MW14	6	X	X	X
5	UST820-MW14D	10/19/07	11:30		X	UST820-MW14D	6	X	X	X
6	UST820-Trip Blank	10/19/07	—		X	Trip Blank	2	X	X	X
7										
8										
9										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 6		FedEx	10/19/07	16:00
2		FX	J.Ott	10/20/07	0900
3					

Remarks

14 Day TAT

NEESA LEVEL C

FedEx
8626 7690 4939, 8626 7690 4926, 8626 7690 4917, 8626 7690 4940

1.0, 1.4, 2.6, 2.0

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F53380 CLIENT: SHAW PROJECT: Camp Lejeune-BM820

DATE/TIME RECEIVED: 10/20/07 0900 # OF COOLERS RECEIVED: 4 COOLER TEMPS: 1.0, 1.4, 2.6, 2.0

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

AIRBILL NUMBERS: 862676904491 862676904928 862676904935 862676904940

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
- [X] 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 ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: Sample 3 (UST820-MW12, 830), 4(UST820-MW-13)930); 7(UST820 MW11D, 1130) Recived 1 broken amber bottle for 625

TECHNICIAN SIGNATURE/DATE: J.Otte 10/20/07 TECHNICIAN SIGNATURE/DATE: JC 10-20-07 ASBD 10/03/06

F53380: Chain of Custody
Page 3 of 3

GC/MS 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: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22893-MB	R11575.D	1	10/25/07	NJ	10/24/07	OP22893	SR534

The QC reported here applies to the following samples: Method: EPA 625

F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	14-62%
4165-62-2	Phenol-d5	25%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	79%	42-108%
321-60-8	2-Fluorobiphenyl	75%	40-106%
1718-51-0	Terphenyl-d14	77%	39-121%

Blank Spike Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22893-BS	R11574.D	1	10/25/07	NJ	10/24/07	OP22893	SR534

The QC reported here applies to the following samples: Method: EPA 625

F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	43.5	87	58-106
208-96-8	Acenaphthylene	50	44.0	88	58-105
120-12-7	Anthracene	50	44.9	90	65-108
56-55-3	Benzo(a)anthracene	50	45.4	91	63-111
50-32-8	Benzo(a)pyrene	50	45.4	91	62-106
205-99-2	Benzo(b)fluoranthene	50	45.2	90	63-109
191-24-2	Benzo(g,h,i)perylene	50	47.0	94	61-111
207-08-9	Benzo(k)fluoranthene	50	44.1	88	64-111
218-01-9	Chrysene	50	45.4	91	64-111
53-70-3	Dibenzo(a,h)anthracene	50	47.8	96	62-112
206-44-0	Fluoranthene	50	47.1	94	65-114
86-73-7	Fluorene	50	44.8	90	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	49.1	98	61-113
90-12-0	1-Methylnaphthalene	50	40.5	81	52-102
91-57-6	2-Methylnaphthalene	50	43.5	87	56-112
91-20-3	Naphthalene	50	37.6	75	50-104
85-01-8	Phenanthrene	50	45.0	90	65-108
129-00-0	Pyrene	50	44.4	89	60-113

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	86%	33-118%
4165-60-0	Nitrobenzene-d5	83%	42-108%
321-60-8	2-Fluorobiphenyl	81%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22893-MS	R11590.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
OP22893-MSD	R11591.D	1	10/26/07	NJ	10/24/07	OP22893	SR534
F53380-11	R11589.D	1	10/26/07	NJ	10/24/07	OP22893	SR534

The QC reported here applies to the following samples: Method: EPA 625

F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

CAS No.	Compound	F53380-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		98	84.6	86	71.9	73	16	58-106/21
208-96-8	Acenaphthylene	ND		98	85.0	87	73.0	74	15	58-105/21
120-12-7	Anthracene	ND		98	88.5	90	77.0	79	14	65-108/19
56-55-3	Benzo(a)anthracene	ND		98	86.6	88	77.1	79	12	63-111/19
50-32-8	Benzo(a)pyrene	ND		98	86.9	89	77.1	79	12	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		98	81.8	83	74.5	76	9	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		98	92.8	95	80.5	82	14	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		98	88.4	90	76.6	78	14	64-111/20
218-01-9	Chrysene	ND		98	87.8	90	77.6	79	12	64-111/19
53-70-3	Dibenzo(a,h)anthracene	ND		98	93.6	95	81.8	83	13	62-112/20
206-44-0	Fluoranthene	ND		98	94.9	97	82.7	84	14	65-114/21
86-73-7	Fluorene	ND		98	87.1	89	75.4	77	14	61-106/19
193-39-5	Indeno(1,2,3-cd)pyrene	ND		98	92.9	95	82.1	84	12	61-113/20
90-12-0	1-Methylnaphthalene	ND		98	82.6	84	71.0	72	15	52-102/25
91-57-6	2-Methylnaphthalene	ND		98	81.8	83	71.9	73	13	56-112/26
91-20-3	Naphthalene	ND		98	77.6	79	66.1	67	16	50-104/28
85-01-8	Phenanthrene	ND		98	87.4	89	76.7	78	13	65-108/20
129-00-0	Pyrene	ND		98	82.5	84	74.9	76	10	60-113/20

CAS No.	Surrogate Recoveries	MS	MSD	F53380-11	Limits
367-12-4	2-Fluorophenol	58%	52%		14-62%
4165-62-2	Phenol-d5	45%*	41%*		10-40%
118-79-6	2,4,6-Tribromophenol	83%	75%		33-118%
4165-60-0	Nitrobenzene-d5	78%	68%	76%	42-108%
321-60-8	2-Fluorobiphenyl	77%	67%	73%	40-106%
1718-51-0	Terphenyl-d14	77%	72%	73%	39-121%

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: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1154-MB	QQ030504.D	1	10/23/07	NJ	n/a	n/a	GQQ1154

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

F53380-1, F53380-2, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10

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	
108-20-3	Di-Isopropyl ether	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%	70-120%
98-08-8	aaa-Trifluorotoluene	95%	73-118%

Method Blank Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1156-MB	QQ030554.D	1	10/24/07	NJ	n/a	n/a	GQQ1156

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

F53380-3, F53380-6, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15, F53380-16

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	
108-20-3	Di-Isopropyl ether	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	92%	70-120%
98-08-8	aaa-Trifluorotoluene	95%	73-118%

Method Blank Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1158-MB	QQ030608.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53380-1

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Blank Spike Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1154-BS	QQ030503.D	1	10/23/07	NJ	n/a	n/a	GQQ1154

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

F53380-1, F53380-2, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.5	98	80-120
108-90-7	Chlorobenzene	20	19.1	96	79-118
95-50-1	1,2-Dichlorobenzene	20	18.0	90	76-117
541-73-1	1,3-Dichlorobenzene	20	17.8	89	78-120
106-46-7	1,4-Dichlorobenzene	20	18.5	93	78-117
108-20-3	Di-Isopropyl ether	20	18.4	92	77-122
100-41-4	Ethylbenzene	20	18.8	94	79-121
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	72-113
108-88-3	Toluene	20	18.1	91	79-121
1330-20-7	Xylenes (total)	60	55.7	93	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	93%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	73-118%

Blank Spike Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1156-BS	QQ030553.D	1	10/24/07	NJ	n/a	n/a	GQQ1156

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

F53380-3, F53380-6, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15, F53380-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.9	100	80-120
108-90-7	Chlorobenzene	20	20.0	100	79-118
95-50-1	1,2-Dichlorobenzene	20	19.0	95	76-117
541-73-1	1,3-Dichlorobenzene	20	19.3	97	78-120
106-46-7	1,4-Dichlorobenzene	20	19.7	99	78-117
108-20-3	Di-Isopropyl ether	20	18.9	95	77-122
100-41-4	Ethylbenzene	20	19.5	98	79-121
1634-04-4	Methyl Tert Butyl Ether	20	19.4	97	72-113
108-88-3	Toluene	20	18.8	94	79-121
1330-20-7	Xylenes (total)	60	58.3	97	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	73-118%

Blank Spike Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1158-BS	QQ030607.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53380-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylenes (total)	60	55.1	92	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53380-1MS	QQ030508.D	1	10/23/07	NJ	n/a	n/a	GQQ1154
F53380-1MSD	QQ030509.D	1	10/23/07	NJ	n/a	n/a	GQQ1154
F53380-1	QQ030507.D	1	10/23/07	NJ	n/a	n/a	GQQ1154

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

F53380-1, F53380-2, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10

CAS No.	Compound	F53380-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.1		20	20.1	95	20.1	95	0	80-120/10
108-90-7	Chlorobenzene	ND		20	19.3	97	19.1	96	1	79-118/10
95-50-1	1,2-Dichlorobenzene	ND		20	20.8	104	20.7	104	0	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	19.1	96	19.1	96	0	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	19.6	98	19.6	98	0	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	18.4	92	18.6	93	1	77-122/12
100-41-4	Ethylbenzene	9.0		20	27.7	94	27.7	94	0	79-121/9
1634-04-4	Methyl Tert Butyl Ether	7.3		20	25.7	92	25.8	93	0	72-113/13
108-88-3	Toluene	26.1		20	44.2	91	44.2	91	0	79-121/10
1330-20-7	Xylenes (total)	190	E	60	245	92	244	90	0	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53380-1	Limits
460-00-4	4-Bromofluorobenzene	97%	96%	96%	70-120%
98-08-8	aaa-Trifluorotoluene	95%	94%	95%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53380-11MS	QQ030557.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
F53380-11MSD	QQ030558.D	1	10/24/07	NJ	n/a	n/a	GQQ1156
F53380-11	QQ030556.D	1	10/24/07	NJ	n/a	n/a	GQQ1156

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

F53380-3, F53380-6, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15, F53380-16

CAS No.	Compound	F53380-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	19.8	99	19.6	98	1	80-120/10
108-90-7	Chlorobenzene	ND		20	20.0	100	19.6	98	2	79-118/10
95-50-1	1,2-Dichlorobenzene	ND		20	19.0	95	18.6	93	2	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	19.1	96	18.8	94	2	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	19.7	99	19.3	97	2	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	18.9	95	18.7	94	1	77-122/12
100-41-4	Ethylbenzene	ND		20	19.5	98	19.2	96	2	79-121/9
1634-04-4	Methyl Tert Butyl Ether	ND		20	19.6	98	19.4	97	1	72-113/13
108-88-3	Toluene	ND		20	18.7	94	18.5	93	1	79-121/10
1330-20-7	Xylenes (total)	ND		60	58.1	97	57.1	95	2	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53380-11	Limits
460-00-4	4-Bromofluorobenzene	100%	97%	93%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	96%	94%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53380
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53429-3MS	QQ030612.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
F53429-3MSD	QQ030613.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
F53429-3 [a]	QQ030611.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53380-1

CAS No.	Compound	F53429-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylenes (total)	79.3		60	134	91	133	90	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53429-3	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	101%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	100%	98%	73-118%

(a) All hits confirmed by GC/MS.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F53380
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13189
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/20/07

Metal	RL	IDL	MB raw	final
Aluminum	200	48		
Antimony	6.0	3.3		
Arsenic	10	3.7		
Barium	200	5		
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	100		
Chromium	10	.92		
Cobalt	50	1		
Copper	25	1.2		
Iron	300	14		
Lead	5.0	2.1	-0.27	<5.0
Magnesium	5000	100		
Manganese	15	1		
Molybdenum	50	1.2		
Nickel	40	1		
Potassium	10000	100		
Selenium	10	4		
Silver	10	.77		
Sodium	10000	500		
Thallium	10	5.6		
Tin	50	2.4		
Vanadium	50	1		
Zinc	20	5		

Associated samples MP13189: F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53380
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13189
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/20/07 10/20/07

Metal	F53380-1 Original	DUP	RPD	QC Limits	F53380-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	487	500	97.4	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP13189: F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53380
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13189
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/20/07

Metal	F53380-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	481	500	96.2	1.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP13189: F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F53380
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13189
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/20/07

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	493	500	98.6	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13189: F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F53380
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13189
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/20/07

Metal	F53380-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13189: F53380-1, F53380-2, F53380-3, F53380-4, F53380-5, F53380-6, F53380-7, F53380-8, F53380-9, F53380-10, F53380-11, F53380-12, F53380-13, F53380-14, F53380-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/15/07

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BM 820

125709

Accutest Job Number: F53429

Sampling Date: 10/21/07



Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **56**

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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Client Service contact: Heather Wandrey 407-425-6700

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F53429

Camp Lejeune-BM 820
Project No: 125709

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F53429-1	10/21/07	08:30	MM	10/24/07	AQ	Ground Water	UST820-MW27
F53429-2	10/21/07	09:30	MM	10/24/07	AQ	Ground Water	UST820-MW06
F53429-3	10/21/07	10:00	MM	10/24/07	AQ	Ground Water	UST820-MW09D
F53429-4	10/21/07	10:00	MM	10/24/07	AQ	Ground Water	UST820-MW09
F53429-5	10/21/07	11:00	MM	10/24/07	AQ	Ground Water	UST820-MW02
F53429-6	10/21/07	12:00	MM	10/24/07	AQ	Ground Water	UST820-MW18
F53429-7	10/21/07	13:30	MM	10/24/07	AQ	Ground Water	UST820-MW21
F53429-8	10/21/07	14:15	MM	10/24/07	AQ	Ground Water	UST820-MW20
F53429-9	10/21/07	14:40	MM	10/24/07	AQ	Ground Water	UST820-MW17
F53429-10	10/21/07	15:00	MM	10/24/07	AQ	Ground Water	UST820-MW16
F53429-11	10/21/07	00:00	MM	10/24/07	AQ	Trip Blank Water	UST820-TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW27		
Lab Sample ID:	F53429-1	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005534.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

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:	UST820-MW27		
Lab Sample ID:	F53429-1	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030614.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

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:	UST820-MW27		
Lab Sample ID:	F53429-1	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW06		
Lab Sample ID:	F53429-2	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005535.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
Run #2	R11635.D	4	11/01/07	NJ	10/26/07	OP22916	SR535

	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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	52.9	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	86.3	4.8	0.96	ug/l	
91-20-3	Naphthalene	322 [a]	19	4.6	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%	64%	42-108%
321-60-8	2-Fluorobiphenyl	70%	65%	40-106%
1718-51-0	Terphenyl-d14	71%	67%	39-121%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW06		
Lab Sample ID:	F53429-2	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030654.D	20	10/29/07	NJ	n/a	n/a	GQQ1160
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	65.4	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	128	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	
108-20-3	Di-Isopropyl ether	31.8	20	10	ug/l	
100-41-4	Ethylbenzene	1880	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	30.3	20	10	ug/l	
108-88-3	Toluene	797	20	10	ug/l	
1330-20-7	Xylenes (total)	1890	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		70-120%
98-08-8	aaa-Trifluorotoluene	100%		73-118%

(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:	UST820-MW06		
Lab Sample ID:	F53429-2	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09D		
Lab Sample ID:	F53429-3	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005536.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

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:	UST820-MW09D		
Lab Sample ID:	F53429-3	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030611.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
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	1.2	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	
108-20-3	Di-Isopropyl ether	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	55.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.5	1.0	0.50	ug/l	
108-88-3	Toluene	14.8	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	79.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) All hits confirmed by GC/MS.

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:	UST820-MW09D		
Lab Sample ID:	F53429-3	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09		
Lab Sample ID:	F53429-4	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005537.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	1.7	4.8	1.2	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	56%		39-121%

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:	UST820-MW09		
Lab Sample ID:	F53429-4	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030648.D	10	10/29/07	NJ	n/a	n/a	GQQ1160
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	92.6	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	
108-20-3	Di-Isopropyl ether	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	6.8	10	5.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	583	10	5.0	ug/l	
108-88-3	Toluene	11.2	10	5.0	ug/l	
1330-20-7	Xylenes (total)	ND	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(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:	UST820-MW09		
Lab Sample ID:	F53429-4	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW02		
Lab Sample ID:	F53429-5	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005538.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
Run #2	R11636.D	2	11/01/07	NJ	10/26/07	OP22916	SR535

	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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	111	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	139 [a]	9.6	1.9	ug/l	
91-20-3	Naphthalene	29.5	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%	71%	42-108%
321-60-8	2-Fluorobiphenyl	73%	70%	40-106%
1718-51-0	Terphenyl-d14	78%	76%	39-121%

(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 Laboratories

Report of Analysis

Client Sample ID:	UST820-MW02		
Lab Sample ID:	F53429-5	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030653.D	2	10/29/07	NJ	n/a	n/a	GQQ1160
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	6.8	2.0	1.0	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	
108-20-3	Di-Isopropyl ether	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	2.7	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	1.0	ug/l	
108-88-3	Toluene	5.5	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	172	6.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Dilution required due to matrix interference. All hits confirmed by GC/MS.

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:	UST820-MW02		
Lab Sample ID:	F53429-5	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F53429-6	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005541.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

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:	UST820-MW18		
Lab Sample ID:	F53429-6	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030616.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
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	
108-20-3	Di-Isopropyl ether	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)	1.8	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-120%
98-08-8	aaa-Trifluorotoluene	100%		73-118%

(a) All hits confirmed by GC/MS.

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:	UST820-MW18		
Lab Sample ID:	F53429-6	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.5	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F53429-7	Date Sampled:	10/21/07
Matrix:	AQ - Ground Water	Date Received:	10/24/07
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005542.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

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:	UST820-MW21		
Lab Sample ID:	F53429-7	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030649.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
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	0.77	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	
108-20-3	Di-Isopropyl ether	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	1.4	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%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(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:	UST820-MW21		
Lab Sample ID:	F53429-7	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	8.4 U	20	8.4	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F53429-8	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005543.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.0	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.95	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.95	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	1.1	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

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:	UST820-MW20		
Lab Sample ID:	F53429-8	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030650.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
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	0.71	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	
108-20-3	Di-Isopropyl ether	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	2.2	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%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(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:	UST820-MW20		
Lab Sample ID:	F53429-8	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW17		
Lab Sample ID:	F53429-9	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005544.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

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:	UST820-MW17		
Lab Sample ID:	F53429-9	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030663.D	50	10/29/07	NJ	n/a	n/a	GQQ1160
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	53.4	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	
108-20-3	Di-Isopropyl ether	ND	50	25	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2960	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	95%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(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:	UST820-MW17		
Lab Sample ID:	F53429-9	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	42 U	50	42	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16		
Lab Sample ID:	F53429-10	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U005545.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

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:	UST820-MW16		
Lab Sample ID:	F53429-10	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030651.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
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	0.50	1.0	0.50	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	1.0	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	
108-20-3	Di-Isopropyl ether	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	0.70	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.1	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(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:	UST820-MW16		
Lab Sample ID:	F53429-10	**Date Sampled:**	10/21/07
Matrix:	AQ - Ground Water	**Date Received:**	10/24/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.3 B	5.0	2.1	ug/l	1	10/24/07	10/24/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6071
(2) Prep QC Batch: MP13221

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TRIP BLANK		
Lab Sample ID:	F53429-11	**Date Sampled:**	10/21/07
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/24/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030652.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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:
125709-820-102307

F53429

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
125709	Mark Martin	200935	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Joe Colella		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voas +Xylenes 602	PAHs 625	Total Lead by 3030C
1	UST820-MW27	10/21/07	8:30		X	UST820-MW27	6	X	X	X
2	UST820-MW06	10/21/07	9:30		X	UST820-MW06	6	X	X	X
3	UST820-MW09D	10/21/07	10:00		X	UST820-MW09D	6	X	X	X
4	UST820-MW09	10/23/07	10:00		X	UST820-MW09	6	X	X	X
5	UST820-MW02	10/23/07	11:00		X	UST820-MW02	6	X	X	X
6	UST820-MW18	10/23/07	12:00		X	UST820-MW18	6	X	X	X
7	UST820-MW21	10/23/07	13:30		X	UST820-MW21	6	X	X	X
8	UST820-MW20	10/23/07	14:15		X	UST820-MW20	6	X	X	X
9	UST820-MW17	10/23/07	14:40		X	UST820-MW17	6	X	X	X
10	UST820-MW16	10/23/07	15:00		X	UST820-MW16	6	X	X	X
11	UST820-Trip Blank	10/23/07			X	Trip Blank	2	X		

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 11		FedEx	10/23/07	16:00
2		FX	E.Tomey	10.24.07	10:00
3					

Remarks

14 Day TAT

NEESA LEVEL C

FedEx
8826 7690 4950, 8826 7690 4961, 8826 7690 4972

2.6 3.2 2.0

F53429: Chain of Custody
Page 1 of 2

ACCUTEST
F53429

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F53429 CLIENT: Shaw PROJECT: Camp Lejeune - BM 820

DATE/TIME RECEIVED: 10.24.07 10:00 # OF COOLERS RECEIVED: 3 COOLER TEMPS: 2.6 3.2 2.0

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

AIRBILL NUMBERS: 8626 7690 4961

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)
- [x] 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
- [x] 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 ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: Sample #10 (MW16 15:00) Received 1 Amber (PAH) broken

Samp. 10 recieved 3 vials w/ ID of MW20 COC has ID of MW16

TECHNICIAN SIGNATURE/DATE 10.24.07 E.T. TECHNICIAN SIGNATURE/DATE 10-24-07

ASBD 10/03/06

F53429: Chain of Custody
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GC/MS 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: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22916-MB	U005533.D	1	10/29/07	NJ	10/26/07	OP22916	SU256

The QC reported here applies to the following samples: Method: EPA 625

F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	42-108%
321-60-8	2-Fluorobiphenyl	60%	40-106%
1718-51-0	Terphenyl-d14	75%	39-121%

Method Blank Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22916-MB	R11634.D	1	11/01/07	NJ	10/26/07	OP22916	SR535

The QC reported here applies to the following samples: Method: EPA 625

F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	61%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	73%	39-121%

Blank Spike Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22916-BS	U005532.D	1	10/29/07	NJ	10/26/07	OP22916	SU256

The QC reported here applies to the following samples: Method: EPA 625

F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	36.6	73	58-106
208-96-8	Acenaphthylene	50	37.4	75	58-105
120-12-7	Anthracene	50	40.1	80	65-108
56-55-3	Benzo(a)anthracene	50	39.7	79	63-111
50-32-8	Benzo(a)pyrene	50	39.9	80	62-106
205-99-2	Benzo(b)fluoranthene	50	39.8	80	63-109
191-24-2	Benzo(g,h,i)perylene	50	39.6	79	61-111
207-08-9	Benzo(k)fluoranthene	50	40.2	80	64-111
218-01-9	Chrysene	50	40.1	80	64-111
53-70-3	Dibenzo(a,h)anthracene	50	40.2	80	62-112
206-44-0	Fluoranthene	50	40.2	80	65-114
86-73-7	Fluorene	50	38.3	77	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.7	79	61-113
90-12-0	1-Methylnaphthalene	50	32.7	65	52-102
91-57-6	2-Methylnaphthalene	50	34.2	68	56-112
91-20-3	Naphthalene	50	31.5	63	50-104
85-01-8	Phenanthrene	50	39.9	80	65-108
129-00-0	Pyrene	50	40.8	82	60-113

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	64%	42-108%
321-60-8	2-Fluorobiphenyl	66%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22916-MS	U005539.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
OP22916-MSD	U005540.D	1	10/30/07	NJ	10/26/07	OP22916	SU256
F53429-5	U005538.D	1	10/29/07	NJ	10/26/07	OP22916	SU256
F53429-5	R11636.D	2	11/01/07	NJ	10/26/07	OP22916	SR535

The QC reported here applies to the following samples: **Method:** EPA 625

F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

CAS No.	Compound	F53429-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		96.2	82.7	86	78.0	81	6	58-106/21
208-96-8	Acenaphthylene	ND		96.2	82.7	86	77.8	81	6	58-105/21
120-12-7	Anthracene	ND		96.2	86.6	90	81.2	84	6	65-108/19
56-55-3	Benzo(a)anthracene	ND		96.2	86.7	90	80.9	84	7	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	86.6	90	81.2	84	6	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	87.8	91	79.8	83	10	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	87.2	91	83.0	86	5	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	84.8	88	81.4	85	4	64-111/20
218-01-9	Chrysene	ND		96.2	86.1	90	80.3	84	7	64-111/19
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	88.5	92	82.0	85	8	62-112/20
206-44-0	Fluoranthene	ND		96.2	86.0	89	79.7	83	8	65-114/21
86-73-7	Fluorene	ND		96.2	84.0	87	79.7	83	5	61-106/19
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	88.7	92	82.2	85	8	61-113/20
90-12-0	1-Methylnaphthalene	111		96.2	192	84	171	62	12	52-102/25
91-57-6	2-Methylnaphthalene	139 [a]		96.2	209	73	186	49*	12	56-112/26
91-20-3	Naphthalene	29.5		96.2	105	79	90.3	63	15	50-104/28
85-01-8	Phenanthrene	ND		96.2	86.9	90	81.6	85	6	65-108/20
129-00-0	Pyrene	ND		96.2	87.9	91	83.8	87	5	60-113/20

CAS No.	Surrogate Recoveries	MS	MSD	F53429-5	F53429-5	Limits
4165-60-0	Nitrobenzene-d5	73%	64%	65%	71%	42-108%
321-60-8	2-Fluorobiphenyl	77%	71%	73%	70%	40-106%
1718-51-0	Terphenyl-d14	85%	80%	78%	76%	39-121%

(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: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1158-MB	QQ030608.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53429-1, F53429-3, F53429-6

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	
108-20-3	Di-Isopropyl ether	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%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Method Blank Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1160-MB	QQ030646.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53429-2, F53429-4, F53429-5, F53429-7, F53429-8, F53429-9, F53429-10, F53429-11

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	
108-20-3	Di-Isopropyl ether	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	97%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Blank Spike Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1158-BS	QQ030607.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53429-1, F53429-3, F53429-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	80-120
108-90-7	Chlorobenzene	20	18.6	93	79-118
95-50-1	1,2-Dichlorobenzene	20	17.9	90	76-117
541-73-1	1,3-Dichlorobenzene	20	17.9	90	78-120
106-46-7	1,4-Dichlorobenzene	20	18.0	90	78-117
108-20-3	Di-Isopropyl ether	20	19.4	97	77-122
100-41-4	Ethylbenzene	20	18.1	91	79-121
1634-04-4	Methyl Tert Butyl Ether	20	18.4	92	72-113
108-88-3	Toluene	20	18.4	92	79-121
1330-20-7	Xylenes (total)	60	55.1	92	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	73-118%

Blank Spike Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1160-BS	QQ030645.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53429-2, F53429-4, F53429-5, F53429-7, F53429-8, F53429-9, F53429-10, F53429-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.3	97	80-120
108-90-7	Chlorobenzene	20	19.4	97	79-118
95-50-1	1,2-Dichlorobenzene	20	19.1	96	76-117
541-73-1	1,3-Dichlorobenzene	20	19.1	96	78-120
106-46-7	1,4-Dichlorobenzene	20	19.3	97	78-117
108-20-3	Di-Isopropyl ether	20	19.8	99	77-122
100-41-4	Ethylbenzene	20	19.0	95	79-121
1634-04-4	Methyl Tert Butyl Ether	20	18.5	93	72-113
108-88-3	Toluene	20	19.1	96	79-121
1330-20-7	Xylenes (total)	60	58.0	97	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	107%	70-120%
98-08-8	aaa-Trifluorotoluene	102%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53429-3MS	QQ030612.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
F53429-3MSD	QQ030613.D	1	10/26/07	NJ	n/a	n/a	GQQ1158
F53429-3 [a]	QQ030611.D	1	10/26/07	NJ	n/a	n/a	GQQ1158

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

F53429-1, F53429-3, F53429-6

CAS No.	Compound	F53429-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.2		20	19.5	92	19.4	91	1	80-120/10
108-90-7	Chlorobenzene	ND		20	19.0	95	18.8	94	1	79-118/10
95-50-1	1,2-Dichlorobenzene	ND		20	20.6	90	20.4	89	1	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	19.2	96	19.1	96	1	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	19.2	96	19.2	96	0	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	19.7	99	19.9	100	1	77-122/12
100-41-4	Ethylbenzene	55.2		20	73.1	90	72.8	88	0	79-121/9
1634-04-4	Methyl Tert Butyl Ether	9.5		20	27.6	91	27.8	92	1	72-113/13
108-88-3	Toluene	14.8		20	32.7	90	32.5	89	1	79-121/10
1330-20-7	Xylenes (total)	79.3		60	134	91	133	90	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53429-3	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	101%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	100%	98%	73-118%

(a) All hits confirmed by GC/MS.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53429
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53489-3MS	QQ030659.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
F53489-3MSD	QQ030660.D	1	10/29/07	NJ	n/a	n/a	GQQ1160
F53489-3	QQ030657.D	1	10/29/07	NJ	n/a	n/a	GQQ1160

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

F53429-2, F53429-4, F53429-5, F53429-7, F53429-8, F53429-9, F53429-10, F53429-11

CAS No.	Compound	F53489-3 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	18.7	94	0	80-120/10
108-90-7	Chlorobenzene	ND		20	18.8	94	18.9	95	1	79-118/10
95-50-1	1,2-Dichlorobenzene	ND		20	18.5	93	18.6	93	1	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	18.7	94	18.8	94	1	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	18.6	93	18.8	94	1	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	19.4	97	19.6	98	1	77-122/12
100-41-4	Ethylbenzene	ND		20	18.5	93	18.5	93	0	79-121/9
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.0	90	18.5	93	3	72-113/13
108-88-3	Toluene	ND		20	18.6	93	18.6	93	0	79-121/10
1330-20-7	Xylenes (total)	ND		60	56.3	94	56.7	95	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53489-3	Limits
460-00-4	4-Bromofluorobenzene	105%	105%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	100%	98%	73-118%

Metals Analysis

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F53429
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13221
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07

Metal	RL	IDL	MB raw	final
Aluminum	200	48		
Antimony	6.0	3.3		
Arsenic	10	3.7		
Barium	200	5		
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	100		
Chromium	10	.92		
Cobalt	50	1		
Copper	25	1.2		
Iron	300	14		
Lead	5.0	2.1	0.11	<5.0
Magnesium	5000	100		
Manganese	15	1		
Molybdenum	50	1.2		
Nickel	40	1		
Potassium	10000	100		
Selenium	10	4		
Silver	10	.77		
Sodium	10000	500		
Thallium	10	5.6		
Tin	50	2.4		
Vanadium	50	1		
Zinc	20	5		

Associated samples MP13221: F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53429
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13221
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07 10/24/07

Metal	F53429-1 Original	DUP	RPD	QC Limits	F53429-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	487	500	97.4	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP13221: F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53429
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13221
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07

Metal	F53429-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	470	500	94.0	3.6	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP13221: F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F53429
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13221
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	474	500	94.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13221: F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F53429
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13221
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/24/07

Metal	F53429-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13221: F53429-1, F53429-2, F53429-3, F53429-4, F53429-5, F53429-6, F53429-7, F53429-8, F53429-9, F53429-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Southeast ACCUTEST. Laboratories

IT'S ALL IN THE CHEMISTRY

11/28/07

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BM 820

125709

Accutest Job Number: F53490

Sampling Date: 10/24/07



Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **37**

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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Client Service contact: Heather Wandrey 407-425-6700

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Test results relate only to samples analyzed.

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Sample Summary

Shaw E & I, Inc.

Job No: F53490

Camp Lejeune-BM 820
Project No: 125709

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F53490-1	10/24/07	13:00	MM	10/26/07	AQ	Ground Water	UST820-MW23
F53490-2	10/24/07	13:45	MM	10/26/07	AQ	Ground Water	UST820-MW22
F53490-3	10/24/07	14:30	MM	10/26/07	AQ	Ground Water	UST820-MW33
F53490-4	10/24/07	15:15	MM	10/26/07	AQ	Ground Water	UST820-MW07
F53490-5	10/24/07	16:15	MM	10/26/07	AQ	Ground Water	UST820-MW08
F53490-6	10/24/07	00:00	MM	10/26/07	AQ	Trip Blank Water	UST820-TRIP BLANK

Sample Results

Report of Analysis

Accutest LabLink@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F53490-1	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11624.D	1	10/31/07	NJ	10/31/07	OP22963	SR535
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F53490-1	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030717.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
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	0.90	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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F53490-1	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/27/07	10/26/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6076
(2) Prep QC Batch: MP13244

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	UST82:-M W22		
Lab Sample ID:	F5349:- 2	**Date Sampled:**	1:/24/:7
Matrix:	AQ - Ground Water	**Date Received:**	1:/26/:7
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 82:		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11627.D	1	1:/31/:7	NJ	1:/31/:7	OP22963	SR535
Run #2							

	Initial Volume	Final Volume
Run #1	1:2: m l	1.: m l
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.9	1.4	ug/l	
2:8-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
12:-12-7	Anthracene	ND	4.9	:.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	:.98	ug/l	
5:-32-8	Benzo(a)pyrene	ND	4.9	:.98	ug/l	
2:5-99-2	Benzo(b)fluoranthene	ND	4.9	:.98	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	:.98	ug/l	
2:7-:8-9	Benzo(k)fluoranthene	ND	4.9	:.98	ug/l	
218-:1-9	Chrysene	ND	4.9	:.98	ug/l	
53-7:-3	Dibenzo(a,h)anthracene	ND	4.9	:.98	ug/l	
2:6-44-:	Fluoranthene	ND	4.9	:.98	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	:.98	ug/l	
9:-12-:	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	:.98	ug/l	
91-2:-3	Naphthalene	ND	4.9	1.2	ug/l	
85-:1-8	Phenanthrene	ND	4.9	:.98	ug/l	
129-::-:	Pyrene	ND	4.9	:.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-6:-:	Nitrobenzene-d5	67%		42-1:8%
321-6:-8	2-Fluorobiphenyl	64%		4:-1:6%
1718-51-:	Terphenyl-d14	74%		39-121%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW22		
Lab Sample ID:	F53490-2	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ030720.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
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	
108-20-3	Di-Isopropyl ether	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	99%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW22		
Lab Sample ID:	F53490-2	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/27/07	10/26/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6076
(2) Prep QC Batch: MP13244

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

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Report of Analysis

Client Sample ID:	UST820-MW33		
Lab Sample ID:	F53490-3	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11628.D	1	11/01/07	NJ	10/31/07	OP22963	SR535
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW33		
Lab Sample ID:	F53490-3	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030721.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW33		
Lab Sample ID:	F53490-3	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/27/07	10/26/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6076
(2) Prep QC Batch: MP13244

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest LabLink@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F53490-4	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11629.D	1	11/01/07	NJ	10/31/07	OP22963	SR535
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	4.8	1.3	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.1	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	0.96	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	0.96	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F53490-4	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030722.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F53490-4	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/27/07	10/26/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6076
(2) Prep QC Batch: MP13244

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F53490-5	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 625 EPA 625	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R11630.D	1	11/01/07	NJ	10/31/07	OP22963	SR535
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	4.9	1.4	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.1	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	0.97	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	0.97	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	1.2	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F53490-5	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030725.D	1	10/31/07	NJ	n/a	n/a	GQQ1163
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

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@71236 10:38 28-Nov-2007

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F53490-5	**Date Sampled:**	10/24/07
Matrix:	AQ - Ground Water	**Date Received:**	10/26/07
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	2.1 U	5.0	2.1	ug/l	1	10/27/07	10/26/07	RS	SW846 6010B [1]	SM 3030C [2]

(1) Instrument QC Batch: MA6076
(2) Prep QC Batch: MP13244

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	UST820-TRIP BLANK		
Lab Sample ID:	F53490-6	**Date Sampled:**	10/24/07
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/26/07
Method:	EPA 601/602	**Percent Solids:**	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ030726.D	1	10/31/07	NJ	n/a	n/a	GQQ1163
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	
108-20-3	Di-Isopropyl ether	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%		70-120%
98-08-8	aaa-Trifluorotoluene	95%		73-118%

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

F53490

COC Number:
125709-820-102407

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
125709	Mark Martin	200935	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Joe Colella		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voas +Xylenes 602	PAHs 625	Total Lead by 3030C
1	UST820-MW23	10/24/07	13:00		X	UST820-MW23	6	X	X	X
2	UST820-MW22	10/24/07	13:45		X	UST820-MW22	6	X	X	X
3	UST820-MW33	10/24/07	14:30		X	UST820-MW33	6	X	X	X
4	UST820-MW07	10/24/07	15:15		X	UST820-MW07	6	X	X	X
5	UST820-MW08	10/24/07	16:15		X	UST820-MW08	6	X	X	X
6	UST820-Trip Blank	10/24/07	—		X	Trip Blank	2	X		
7										
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 6	[signature]	FedEx 8626 7690 4983	10/25/07	16:00
2		FX	[signature]	10/26/07	9:30
3					

Remarks

14 Day TAT
NEESA LEVEL C

26

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F53490 CLIENT: SHAW PROJECT: Camp LeJEUNE · BM820

DATE/TIME RECEIVED: 10-26-07 09:30 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.6

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

AIRBILL NUMBERS: 8626 7690 4983

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
- [✓] 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 ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OR LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: SMC 10-26-07 TECHNICIAN SIGNATURE/DATE: JC 10-26-07 ASBD 10/03/06

GC/MS 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: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22963-MB	R11619.D	1	10/31/07	NJ	10/31/07	OP22963	SR535

The QC reported here applies to the following samples: Method: EPA 625

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	58%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	71%	39-121%

Method Blank Summary

Job Number: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22963-MB	R11653.D	1	11/01/07	NJ	10/31/07	OP22963	SR536

The QC reported here applies to the following samples: Method: EPA 625

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.4	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.1	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	1.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.2	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	59%	42-108%
321-60-8	2-Fluorobiphenyl	58%	40-106%
1718-51-0	Terphenyl-d14	71%	39-121%

Blank Spike Summary

Job Number: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22963-BS	R11618.D	1	10/31/07	NJ	10/31/07	OP22963	SR535

The QC reported here applies to the following samples: Method: EPA 625

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	34.8	70	58-106
208-96-8	Acenaphthylene	50	34.5	69	58-105
120-12-7	Anthracene	50	39.3	79	65-108
56-55-3	Benzo(a)anthracene	50	40.1	80	63-111
50-32-8	Benzo(a)pyrene	50	40.3	81	62-106
205-99-2	Benzo(b)fluoranthene	50	37.6	75	63-109
191-24-2	Benzo(g,h,i)perylene	50	41.1	82	61-111
207-08-9	Benzo(k)fluoranthene	50	41.4	83	64-111
218-01-9	Chrysene	50	40.4	81	64-111
53-70-3	Dibenzo(a,h)anthracene	50	42.1	84	62-112
206-44-0	Fluoranthene	50	42.8	86	65-114
86-73-7	Fluorene	50	37.2	74	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	50.8	102	61-113
90-12-0	1-Methylnaphthalene	50	34.3	69	52-102
91-57-6	2-Methylnaphthalene	50	35.2	70	56-112
91-20-3	Naphthalene	50	28.9	58	50-104
85-01-8	Phenanthrene	50	38.6	77	65-108
129-00-0	Pyrene	50	37.9	76	60-113

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	59%	42-108%
321-60-8	2-Fluorobiphenyl	62%	40-106%
1718-51-0	Terphenyl-d14	75%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22963-MS	R11625.D	1	10/31/07	NJ	10/31/07	OP22963	SR535
OP22963-MSD	R11626.D	1	10/31/07	NJ	10/31/07	OP22963	SR535
F53490-1	R11624.D	1	10/31/07	NJ	10/31/07	OP22963	SR535

The QC reported here applies to the following samples: Method: EPA 625

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

CAS No.	Compound	F53490-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		96.2	72.1	75	77.0	80	7	58-106/21
208-96-8	Acenaphthylene	ND		96.2	71.7	75	76.7	80	7	58-105/21
120-12-7	Anthracene	ND		96.2	78.8	82	82.5	86	5	65-108/19
56-55-3	Benzo(a)anthracene	ND		96.2	77.8	81	82.0	85	5	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	79.5	83	82.7	86	4	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	73.7	77	77.9	81	6	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	80.9	84	84.9	88	5	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	83.2	87	85.2	89	2	64-111/20
218-01-9	Chrysene	ND		96.2	78.4	82	82.3	86	5	64-111/19
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	82.7	86	86.7	90	5	62-112/20
206-44-0	Fluoranthene	ND		96.2	82.8	86	86.2	90	4	65-114/21
86-73-7	Fluorene	ND		96.2	75.0	78	79.9	83	6	61-106/19
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	101	105	105	109	4	61-113/20
90-12-0	1-Methylnaphthalene	ND		96.2	71.9	75	78.4	82	9	52-102/25
91-57-6	2-Methylnaphthalene	ND		96.2	74.6	78	78.9	82	6	56-112/26
91-20-3	Naphthalene	ND		96.2	67.3	70	71.0	74	5	50-104/28
85-01-8	Phenanthrene	ND		96.2	77.1	80	81.6	85	6	65-108/20
129-00-0	Pyrene	ND		96.2	77.1	80	81.1	84	5	60-113/20

CAS No.	Surrogate Recoveries	MS	MSD	F53490-1	Limits
4165-60-0	Nitrobenzene-d5	67%	70%	66%	42-108%
321-60-8	2-Fluorobiphenyl	67%	70%	63%	40-106%
1718-51-0	Terphenyl-d14	76%	79%	77%	39-121%

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: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1163-MB	QQ030714.D	1	10/30/07	NJ	n/a	n/a	GQQ1163

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

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5, F53490-6

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	
108-20-3	Di-Isopropyl ether	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%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

Blank Spike Summary

Job Number: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1163-BS	QQ030713.D	1	10/30/07	NJ	n/a	n/a	GQQ1163

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

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5, F53490-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.8	94	80-120
108-90-7	Chlorobenzene	20	18.7	94	79-118
95-50-1	1,2-Dichlorobenzene	20	18.2	91	76-117
541-73-1	1,3-Dichlorobenzene	20	18.3	92	78-120
106-46-7	1,4-Dichlorobenzene	20	18.4	92	78-117
108-20-3	Di-Isopropyl ether	20	19.2	96	77-122
100-41-4	Ethylbenzene	20	18.3	92	79-121
1634-04-4	Methyl Tert Butyl Ether	20	17.9	90	72-113
108-88-3	Toluene	20	18.4	92	79-121
1330-20-7	Xylenes (total)	60	55.9	93	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F53490
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F53490-1MS	QQ030718.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
F53490-1MSD	QQ030719.D	1	10/30/07	NJ	n/a	n/a	GQQ1163
F53490-1 [a]	QQ030717.D	1	10/30/07	NJ	n/a	n/a	GQQ1163

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

F53490-1, F53490-2, F53490-3, F53490-4, F53490-5, F53490-6

CAS No.	Compound	F53490-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.6	93	18.3	92	2	80-120/10
108-90-7	Chlorobenzene	ND		20	18.6	93	18.3	92	2	79-118/10
95-50-1	1,2-Dichlorobenzene	0.90	J	20	18.8	90	18.4	88	2	76-117/18
541-73-1	1,3-Dichlorobenzene	ND		20	18.3	92	18.0	90	2	78-120/13
106-46-7	1,4-Dichlorobenzene	ND		20	18.4	92	18.1	91	2	78-117/11
108-20-3	Di-Isopropyl ether	ND		20	19.1	96	18.8	94	2	77-122/12
100-41-4	Ethylbenzene	ND		20	18.2	91	18.0	90	1	79-121/9
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.4	92	18.1	91	2	72-113/13
108-88-3	Toluene	ND		20	18.3	92	18.1	91	1	79-121/10
1330-20-7	Xylenes (total)	ND		60	56.0	93	55.1	92	2	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F53490-1	Limits
460-00-4	4-Bromofluorobenzene	104%	107%	100%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	101%	97%	73-118%

(a) All hits confirmed by dual column analysis.

Metals Analysis

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F53490
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13244
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/27/07

Metal	RL	IDL	MB raw	final
Aluminum	200	48		
Antimony	6.0	3.3		
Arsenic	10	3.7		
Barium	200	5		
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	100		
Chromium	10	.92		
Cobalt	50	1		
Copper	25	1.2		
Iron	300	14		
Lead	5.0	2.1	-0.28	<5.0
Magnesium	5000	100		
Manganese	15	1		
Molybdenum	50	1.2		
Nickel	40	1		
Potassium	10000	100		
Selenium	10	4		
Silver	10	.77		
Sodium	10000	500		
Thallium	10	5.6		
Tin	50	2.4		
Vanadium	50	1		
Zinc	20	5		

Associated samples MP13244: F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F53490
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13244
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/27/07 10/27/07

Metal	F53489-1 Original	DUP	RPD	QC Limits	F53489-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0 (a)	NC	0-20	0.0	499	500	99.8	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP13244: F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F53490
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13244
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/27/07

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	497	500	99.4	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13244: F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F53490
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-BM 820

QC Batch ID: MP13244
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/27/07

Metal	F53489-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP13244: F53490-1, F53490-2, F53490-3, F53490-4, F53490-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

APPENDIX C
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-2**

Client Sample ID:		UST820-MW02-02B	UST820-MW02-02C	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02
Date Sampled:		04/26/02	10/30/02	04/18/03	10/13/03	04/14/04	11/03/04	08/06/05	02/01/06	10/13/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	**19.4**	**95.2**	**0.84 J**	<1.0	<1.0	**0.7 J**	<1.0	<10	<1.0	**6.8**
Chlorobenzene	50	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0
Methyl tert-butyl ether	200	<10	**22.5**	<5.0	<1.0	**1.7**	<1.0	**2.3**	**589**	**9.2**	<1.0
Ethylbenzene	550	**34.9**	**212**	**21.1**	**5.4**	**0.83 J**	**14.8**	**7.0**	<10	<1.0	**2.7**
Xylenes (total)	530	**285**	**778**	**100**	**31.6**	**9.1**	**116**	**97.8**	<30	**18.8**	**172.0**
Toluene	1000	**402**	**966**	**82**	**8.6**	**1.2**	**66.9**	**52.3**	<10	<1.0	**5.5**
Total BTEX +MTBE		**741.3**	**2073.7**	**203.94**	**45.6**	**12.8**	**198.4**	**159.4**	**589.0**	**28.0**	**187.0**
Di-Isopropyl ether	70										<2.0
EPA 610											
Chrysene	4.79	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
Naphthalene	21	**52.9**	**167**	<5.4	**3.2 J**	**3.4 J**	**11.1**	**10.2**	<4.8	**4.2 J**	**29.5**
Acenaphthene	80	<50	<56	<5.4	<5.0	<5.4	<4.8	<3.8	<4.8	<4.9	<4.8
Acenaphthylene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<3.8	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<50	<56	<5.4	<5.0	<5.4	<4.8	<0.19	<4.8	<4.9	<4.8
Pyrene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
Fluorene	280	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
Anthracene	2100	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
Fluoranthene	280	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
Phenanthrene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9	<4.8	<4.9	<4.8
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	<5.0	<5.0	<1.2	<1.7	<2.1
Bold type indicates detectable concentrations.											
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).											

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-3**

Client Sample ID:		UST820-MW03	UST820-MW03	UST820-MW03	UST820-MW03	UST820-MW03
Date Sampled:		11/03/04	08/08/05	02/01/06	10/13/06	10/17/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	**42.4**	**1.9**	<1.0	<1.0	**1.1**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**4.8**	**7.1**	**1590**	**9.5**	**7.3**
Ethylbenzene	550	**7.4**	**71**	**0.79 J**	<1.0	**9.0**
Xylenes (total)	530	**52.5**	**407 J**	**86.9**	**2.0 J**	**163.0**
Toluene	1000	**19.4**	**60.7**	**10.0**	<1.0	**26.1**
Total BTEX + MTBE		**126.5**	**547.7**	**1686.9**	**11.5**	**206.5**
Di-Isopropyl ether	70					<1.0
EPA 610						
Chrysene	4.79	<4.8	<1.9	<4.8	<4.8	<4.9
Naphthalene	21	<4.8	**19.8**	<4.8	<4.8	<4.9
Acenaphthene	80	<4.8	<3.8	<4.8	<4.8	<4.9
Acenaphthylene	210	<4.8	<3.8	<4.8	<4.8	<4.9
Benzo(a)anthracene	0.0479	<4.8	<0.19	<4.8	<4.8	<4.9
Pyrene	210	<4.8	<1.9	<4.8	<4.8	<4.9
Fluorene	280	<4.8	<1.9	<4.8	<4.8	<4.9
Anthracene	2100	<4.8	<1.9	<4.8	<4.8	<4.9
Fluoranthene	280	<4.8	<1.9	<4.8	<4.8	<4.9
Phenanthrene	210	<4.8	<1.9	<4.8	<4.8	<4.9
SW846-3010A						
Lead	15	<5.0	<5.0	<1.2	<1.7	<2.1
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-4**

Client Sample ID:		UST820-MW04-01C3	UST820-MW04-02B	UST820-MW04-02C	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04
Date Sampled:		10/02/01	04/26/02	10/28/02	04/14/03	10/07/03	04/15/04	11/06/04	08/10/05	02/05/06	10/12/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	**9.6**	<1.0	**5.2**	<1.0	<1.0	<1.0	**1.6**	<1.0	**2.1**	<1.0	<1.0
Chlorobenzene	50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**36**	**0.75 J**	**0.68 J**	<1.0	**1.5**	<1.0	<1.0	<1.0	**0.91 J**	**1.1**	<1.0
Ethylbenzene	550	**16**	<1.0	**3.1**	<1.0	<1.0	<1.0	**0.63 J**	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	**100**	**5.4**	**9.3**	<3.0	<3.0	<3.0	**1.3 J**	<3.0	<3.0	<3.0	<3.0
Toluene	1000	**72**	<1.0	**5.4**	<1.0	<1.0	<1.0	**0.74 J**	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE		**233.6**	**6.15**	**24**		**1.5**		**4.27**		**3.01**	**1.10**	
Di-Isopropyl ether	70											<1.0
EPA 610												
Chrysene	4.79	<0.10	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Naphthalene	21	<2.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Acenaphthene	80	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<3.9	<4.9	<4.8	<4.9
Acenaphthylene	210	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<3.9	<4.9	<4.8	<4.9
Benzo(a)anthracene	0.0479	<0.10	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<0.19	<4.9	<4.8	<4.9
Pyrene	210	<0.25	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Fluorene	280	<2.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Anthracene	2100	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Fluoranthene	280	<0.25	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
Phenanthrene	210	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9	<4.9	<4.8	<4.9
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	**9.5**	**2.0 B**	**1.7 B**	<2.1
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards.										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-5**

Client Sample ID:		Well Dry	Well Dry	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05
Date Sampled:		04/26/02	10/28/02	04/08/03	10/09/03	04/13/04	11/20/04	08/06/05	02/05/06	10/12/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550			<1.0	<1.0	**0.62 J**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530			<3.0	<3.0	**3.4**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000			<1.0	<1.0	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE						**5.52**					
Di-Isopropyl ether	70										<1.0
EPA 610											
Chrysene	4.79			<5.2	<5.3	<5.4	<4.8	<1.9	**1.0 J**	<4.8	<4.8
Naphthalene	21			<5.2	<5.3	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80			<5.2	<5.3	<5.4	<4.8	<3.9	<4.8	<4.8	<4.8
Acenaphthylene	210			<5.2	<5.3	<5.4	<4.8	<3.9	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479			<5.2	<5.3	<5.4	<4.8	**0.078 J**	<4.8	<4.8	<4.8
Pyrene	210			<5.2	<5.3	<5.4	<4.8	<1.9	**1.3 J**	<4.8	<4.8
Fluorene	280			<5.2	<5.3	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100			<5.2	<5.3	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280			<5.2	<5.3	<5.4	<4.8	<1.9	**1.7 J**	<4.8	<4.8
Phenanthrene	210			<5.2	<5.3	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A											
Lead	15			NA	NA	NA	<5.0	<5.0	**3.5 B**	<1.7	**8.8**
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-6**

Client Sample ID:		UST820-MW06	UST820-MW06	UST820-MW06	UST820-MW06	UST820-MW06
Date Sampled:		11/06/04	08/08/05	02/02/06	10/14/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	**212**	**150**	**92**	**103**	**65**
Chlorobenzene	50	<20	**2.9**	<10	<20	<20
Methyl tert-butyl ether	200	**12.1 J**	**31.7**	**32.9**	**252.0**	**30.0**
Ethylbenzene	550	**1400**	**1980**	**1130**	**1280**	**1880**
Xylenes (total)	530	**906**	**1480**	**1070**	**2030**	**1890**
Toluene	1000	**217**	**411**	**164**	**670**	**797**
Total BTEX + MTBE		**2747.1**	**4053**	**2489**	**4335**	**4662**
Di-Isopropyl ether	70					**31.8**
EPA 610						
Chrysene	4.79	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	**268**	**281**	**230**	**253**	**322**
Acenaphthene	80	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<15	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A						
Lead	15	<5.0	<5.0	<1.2	<3.4	<2.1
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-7**

Client Sample ID:		UST820-MW07-01C3	UST820-MW07-02B	UST820-MW07-02C	UST820-MW07	UST820-MW07	UST820-MW07	UST820-MW07
Date Sampled:		09/27/01	04/26/02	10/30/02	04/18/03	10/23/03	04/20/04	11/20/04
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<2.0	<1.0	<1.0	<1.0	**5.3**	<1.0	**0.56 J**
Chlorobenzene	50	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<2.0	**48.3**	**14.1**	**2.9**	**1.6**	<1.0	<1.0
Ethylbenzene	550	<2.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
Xylenes (total)	530	<4.0	**1.8 J**	<3.0	<3.0	**9.4**	<3.0	<3.0
Toluene	1000	<2.0	**1.8**	<1.0	<1.0	**3.6**	<1.0	<1.0
Total BTEX			**3.6**			**19.6**		**0.56**
Di-isopropyl ether	70							
EPA 610								
Chrysene	4.79	<0.10	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Naphthalene	21	<2.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Acenaphthene	80	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Acenaphthylene	210	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Pyrene	210	<0.25	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Fluorene	280	<2.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Anthracene	2100	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Fluoranthene	280	<0.25	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Phenanthrene	210	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
SW846-3010A								
Lead	15	NA	NA	NA	NA	NA	NA	**7.7**
Bold type indicates detectable concentrations.								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-7**

Client Sample ID:		UST820-MW07	UST820-MW07	UST820-MW07	UST820-MW07	UST820-MW07	UST820-MW07			
Date Sampled:		3/1/05	5/31/05	8/9/05	2/1/06	10/13/06	10/24/07			
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**			
EPA 602										
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Total BTEX										
Di-Isopropyl ether	70						<1.0			
EPA 610										
Chrysene	4.79	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Naphthalene	21	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Acenaphthene	80	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8			
Acenaphthylene	210	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8			
Benzo(a)anthracene	0.0479	<4.8	<4.8	<0.19	<4.8	<4.8	<4.8			
Pyrene	210	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Fluorene	280	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Anthracene	2100	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Fluoranthene	280	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
Phenanthrene	210	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8			
SW846-3010A										
Lead	15	**5.9**	**6.3**	**9.0**	**3.6 B**	**3.5 B**	<2.1			
Bold type indicates detectable concentration		**Bold type indicates detectable concentrations.**								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-8**

Client Sample ID:		GW-238	UST820-MW08-01C3	UST820-MW08-02B	UST820-MW08-02C	UST820-MW08	UST820-MW08	UST820-MW08
Date Sampled:		06/26/01	09/27/01	04/26/02	10/30/02	04/18/03	10/23/03	04/20/04
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	**3.2 J**	**5.4**	<1.0	<1.0	<1.0	**12.9**	**1.4**
Chlorobenzene	50	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**180**	**140**	**172**	**95.8**	**2.7**	**33.2**	**50.2**
Ethylbenzene	550	<5.0	<5.0	<1.0	<1.0	<1.0	**2.1**	<1.0
Xylenes (total)	530	<5.0	<5.0	<3.0	<3.0	<3.0	**12.2**	<3.0
Toluene	1000	**1.6 J**	<5.0	**1.3**	<1.0	<1.0	**6.7**	<1.0
Total BTEX + MTBE		**184.8**	**145.4**	**173.3**	**95.8**	**2.7**	**67.1**	**51.6**
Di-Isopropyl ether	70							
EPA 610								
Chrysene	4.79	<0.10	<0.10	<5.5	<5.2	<5.1	<5.1	<5.3
Naphthalene	21	<2.0	<2.0	<5.5	<5.2	<5.1	<5.1	<5.3
Acenaphthene	80	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3
Acenaphthylene	210	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3
Benzo(a)anthracene	0.0479	<0.10	<0.10	<5.5	<5.2	<5.1	<5.1	<5.3
Pyrene	210	<0.10	<0.25	<5.5	<5.2	<5.1	<5.1	<5.3
Fluorene	280	<2.0	<2.0	<5.5	<5.2	<5.1	<5.1	<5.3
Anthracene	2100	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3
Fluoranthene	280	<0.20	<0.25	<5.5	<5.2	<5.1	<5.1	<5.3
Phenanthrene	210	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3
SW846-3010A								
Lead	15	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-8**

Client Sample ID:		UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08		
Date Sampled:		11/20/04	03/01/05	05/31/05	08/09/05	02/03/06	10/16/06	10/24/07		
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**		
EPA 602										
Benzene	1	**1.3**	<1.0	<1.0	<1.0	**0.55 J**	**0.67 J**	<1.0		
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Methyl tert-butyl ether	200	**15.1**	**5.4**	**3.0**	**2.0**	**2.3**	**4.1**	<1.0		
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Total BTEX + MTBE		**16.4**	**5.4**	**3.0**	**2.0**	**2.85**	**4.77**			
Di-Isopropyl ether	70							<1.0		
EPA 610										
Chrysene	4.79	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Naphthalene	21	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Acenaphthene	80	<4.8	<4.8	<4.9	<3.8	<4.9	<4.8	<4.9		
Acenaphthylene	210	<4.8	<4.8	<4.9	<3.8	<4.9	<4.8	<4.9		
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.9	<0.19	<4.9	<4.8	<4.9		
Pyrene	210	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Fluorene	280	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Anthracene	2100	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Fluoranthene	280	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
Phenanthrene	210	<4.8	<4.8	<4.9	<1.9	<4.9	<4.8	<4.9		
SW846-3010A										
Lead	15	**27**	<5.0	**8.5**	<5.0	**2.1 B**	<3.4	<2.1		
		Bold type indicates detectable concentrations.								
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-9**

Client Sample ID:		UST820-MW09-01C3	UST820-MW09-02B	UST820-MW09-02C	UST820-MW09	UST820-MW09	UST820-MW09	UST820-MW09
Date Sampled:		10/01/01	04/24/02	10/28/02	04/16/03	10/21/03	04/14/04	11/3/04
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	**2600**	**1770**	**1450**	**2340**	**1960**	**1170**	**2360**
Chlorobenzene	50	<200	<50	<50	<1.0	<50	<20	<5.0
Methyl tert-butyl ether	200	**7000**	**4070**	**4200**	**4530**	**4110**	**2620**	**3930**
Ethylbenzene	550	**250**	**159**	**125**	**241**	**155**	**225**	**222**
Xylenes (total)	530	**690**	**447**	**348**	**556**	**389**	**532**	**495**
Toluene	1000	**1100**	**645**	**488**	**466**	**416**	**375**	**428**
Total BTEX		**4640**	**3021**	**2411**	**3603**	**2920**	**2302**	**3505**
Di-Isopropyl ether	70							
EPA 610								
Chrysene	4.79	<0.10	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Naphthalene	21	**24**	**9.6**	**15.6**	**24.4**	**15.9**	**14.8**	**16.8**
Acenaphthene	80	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Acenaphthylene	210	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Pyrene	210	<0.25	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Fluorene	280	<2.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Anthracene	2100	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Fluoranthene	280	<0.25	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
Phenanthrene	210	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8
SW846-3010A								
Lead	15	NA	NA	NA	NA	NA	NA	<5.0
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-9**

Client Sample ID:		UST820-MW09	UST820-MW09	UST820-MW09	UST820-MW09
Date Sampled:		8/6/05	2/1/06	1/3/07	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**
EPA 602					
Benzene	1	**1820**	**1710**	**723**	**93**
Chlorobenzene	50	<1.0	<50	<10	<10
Methyl tert-butyl ether	200	**2410**	**2130**	**1000**	**583**
Ethylbenzene	550	**168**	**119**	**25**	**6.8 J**
Xylenes (total)	530	**297**	**242**	**49**	<30.0
Toluene	1000	**224**	**76**	**20**	**11.2**
Total BTEX		**2509**	**2147**	**817**	**104**
Di-Isopropyl ether	70				<10
EPA 610					
Chrysene	4.79	<2.0	<4.8	<4.8	<4.8
Naphthalene	21	**13.9**	**6.2**	**2.3 J**	**1.7 J**
Acenaphthene	80	<3.9	<4.8	<4.8	<4.8
Acenaphthylene	210	<3.9	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<0.2	<4.8	<4.8	<4.8
Pyrene	210	<2.0	<4.8	<4.8	<4.8
Fluorene	280	<2.0	<4.8	<4.8	<4.8
Anthracene	2100	<2.0	<4.8	<4.8	<4.8
Fluoranthene	280	<2.0	<4.8	<4.8	<4.8
Phenanthrene	210	<2.0	<4.8	<4.8	<4.8
SW846-3010A					
Lead	15	<20	**1.8 B**	<6.8	<2.1

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-9D**

Client Sample ID:		UST820-MW19D-01C3	UST820-MW09D-02B	UST820-MW09D-02C	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D
Date Sampled:		10/03/01	04/24/02	10/28/02	04/14/03	10/13/03	04/14/04	11/3/04	8/6/05	2/1/06	10/14/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	<1.0	**2**	**19.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<10	**1.2**	**2.5**	<10	<10	<10	<1.0	<1.0	<1.0	**3.9**	**9.5**
Ethylbenzene	550	<1.0	**0.73 J**	**7.8**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**55.2**
Xylenes (total)	530	<2.0	**1.8 J**	**22**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**79**
Toluene	1000	<1.0	**1.7**	**17.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14.8**
Total BTEX + MTBE			**7.43**	**70**							**3.9**	**151.0**
Di-Isopropyl ether	70											<1.0
EPA 610												
Chrysene	4.79	<0.10	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<2.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<0.25	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<2.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<0.25	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<1.2	<3.4	<2.1
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-10**

Client Sample ID:		UST820-MW10-01C3	UST820-MW10-02B	UST820-MW10-02C	UST820-MW10	No Sample	No Sample	No Sample	No Sample	UST820-MW10	UST820-MW10	No Sample
Date Sampled:		09/26/01	04/24/02	10/30/02	04/14/03	10/09/03	04/13/04	11/15/2004	8/8/2005	2/2/2006	10/17/2006	10/23/2007
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	<1.0	<1.0	<1.0	<1.0					<1.0	<1.0	
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0					<1.0	<1.0	
Methyl tert-butyl ether	200	<10	**7**	**9.0**	**6.9**					**22.5**	**24**	
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0					<1.0	<1.0	
Xylenes (total)	530	<2.0	<2.0	<2.0	<3.0					<2.0	<3.0	
Toluene	1000	<1.0	<1.0	<1.0	<1.0					<1.0	<1.0	
Total BTEX + MTBE			**7.00**	**9.00**	**6.90**					**22.50**	**24.00**	
Di-isopropyl ether	70											
EPA 610												
Chrysene	4.79	<0.10	<5.5	<5.1	<5.0					<4.8	<5.0	
Naphthalene	21	<2.0	<5.5	<5.1	<5.0					<4.8	<5.0	
Acenaphthene	80	<1.0	<5.5	<5.1	<5.0					<4.8	<5.0	
Acenaphthylene	210	<1.0	<5.5	<5.1	<5.0					<4.8	<5.0	
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.1	<5.0					<4.8	<5.0	
Pyrene	210	<0.25	<5.5	<5.1	<5.0					<4.8	<5.0	
Fluorene	280	<2.0	<5.5	<5.1	<5.0					<4.8	<5.0	
Anthracene	2100	<1.0	<5.5	<5.1	<5.0					<4.8	<5.0	
Fluoranthene	280	<0.25	<5.5	<5.1	<5.0					<4.8	<5.0	
Phenanthrene	210	<1.0	<5.5	<5.1	<5.0					<4.8	<5.0	
SW846-6010B												
Lead										**4.3 B**	**6.0**	
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-11**

Client Sample ID:		UST820-MW11-01C3	UST820-MW11-02B	UST820-MW11-02C	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11
Date Sampled:		10/02/01	04/26/02	10/30/02	04/18/03	10/21/03	04/16/04	11/22/04	08/10/05	02/05/06	10/17/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	**130**	**45.1**	**49.3**	**7.5 J**	**84.7**	<20	**7.4**	<20	**1.3**	**1.1**	**0.85 J**
Chlorobenzene	50	<50	<10	**1.1**	<10	<10	<20	<1.0	<20	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<500	<10	**20.2**	**89.7**	**20.7**	<20	<1.0	<20	<1.0	<1.0	**1.9**
Ethylbenzene	550	**340**	**481**	**91.5**	**35.6**	**42.2**	**31.6**	**111**	**78**	**55**	**57.2**	**46.2**
Xylenes (total)	530	**2600**	**3270**	**1580**	**1290**	**1610**	**2180**	**2450**	**3990**	**1390**	**1860**	**1400 B**
Toluene	1000	**2900**	**2900**	**594**	**284**	**310**	**264**	**722**	**1478**	**249**	**177**	**6**
Total BTEX + MTBE		**5970**	**6696.1**	**2335.0**	**1706.8**	**2067.6**	**2475.6**	**3290.4**	**5546.1**	**1695.5**	**2095.3**	**1452.6**
Di-Isopropyl ether	70											**3.6**
EPA 610												
Chrysene	4.79	<0.10	<20	<53	<40	<20	<5.6	<4.8	<1.9	<4.9	<4.8	**1.8 J**
Naphthalene	21	**7.5**	**163**	**271**	**140**	**81.1**	**92.3**	**139**	**179**	**3.4 J**	**156**	**188**
Acenaphthene	80	**1.2 P**	<20	<53	<40	<20	<5.6	<4.8	<16	<4.9	<4.8	<4.9
Acenaphthylene	210	**11**	<20	<53	<40	<20	<5.6	<4.8	<16	<4.9	<4.8	<4.9
Benzo(a)anthracene	0.0479	<0.10	<20	<53	<40	<20	<5.6	<4.8	<0.19	<4.9	<4.8	**1.0 J**
Pyrene	210	<0.25	<20	<53	<40	<20	<5.6	<4.8	**1.6 J**	<4.9	<4.8	**1.5 J**
Fluorene	280	<2.0	<20	<53	<40	<20	<5.6	<4.8	<1.9	<4.9	<4.8	<4.9
Anthracene	2100	<1.0	<20	<53	<40	<20	<5.6	<4.8	<1.9	<4.9	<4.8	<4.9
Fluoranthene	280	<0.25	<20	<53	<40	<20	<5.6	<4.8	**1.6 J**	<4.9	<4.8	**1.6 J**
Phenanthrene	210	<1.0	<20	<53	<40	<20	<5.6	<4.8	<1.9	<4.9	<4.8	<4.9
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0	**7.7**	**3.6 B**	**2.1 B**
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

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Project #125709

Analytical Data Summary

Type II Well: **MW-12**

Client Sample ID:		UST820-MW12-01C3	UST820-MW12-02B	UST820-MW12-02C	UST820-MW12	UST820-MW12	UST820-MW12	UST820-MW12	UST820-MW12	UST820-MW12	UST820-MW12	UST820-MW12
Date Sampled:		09/26/01	04/25/02	10/28/02	04/09/03	10/21/03	04/14/04	11/06/04	08/08/05	02/02/06	10/13/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	<1.0	<1.0	<1.0	<1.0	**0.83 J**	<1.0	**1.9**	<1.0	<1.0	<2.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Methyl tert-butyl ether	200	<10	**2.2**	<1.0	<1.0	<1.0	<1.0	**0.7**	<1.0	**4.9**	**120**	<1.0
Ethylbenzene	550	<1.0	<1.0	**1.7**	<1.0	<1.0	<1.0	**17**	<1.0	<1.0	<2.0	<1.0
Xylenes (total)	530	<2.0	<3.0	**47.8**	<3.0	<3.0	<3.0	**9.5**	<3.0	<3.0	<6.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	<1.0	<1.0	<2.0	<1.0
Total BTEX + MTBE			**2.2**	**49.5**		**0.83**		**30.9**		**4.9**	**120.0**	
Di-Isopropyl ether	70											<1.0
EPA 610												
Chrysene	4.79	<0.10	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<2.0	<5.0	<5.2	<5.1	<5.1	<5.2	**2.9 J**	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<1.0	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<1.0	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<0.25	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<2.0	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<1.0	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<0.25	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<1.0	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<1.2	<1.7	**2.3 B**
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-13**

Client Sample ID:		UST820-MW13-02B	UST820-MW13-02C	UST820-MW13	UST820-MW13	UST820-MW13	UST820-MW13	UST820-MW13	UST820-MW13	UST820-MW13	UST820-MW13
Date Sampled:		04/26/02	10/29/02	04/08/03	10/09/03	04/14/04	11/06/04	08/06/05	02/02/06	10/13/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	**0.63 J**	<1.0	**0.55 J**	**4.3**	**12.5**	**2.8**	**1.8**	**8.8**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<5.0	<1.0	<1.0
Methyl tert-butyl ether	200	**18.3**	**6.7**	**4.4**	<1.0	<10	**1.5**	<1.0	<5.0	**2.6**	**8.4**
Ethylbenzene	550	**5**	**0.73 J**	**3.9**	**48.4**	**145**	**19.5**	**21.7**	**60.8**	**6.7**	**13.5**
Xylenes (total)	530	**24.8**	**7.2**	**103**	**531**	**1290**	**63.6**	**148**	**903**	**41.2**	**86.0**
Toluene	1000	**17.5**	**2.1**	**62.5**	**53.3**	**474**	**19.1**	**41.6**	**304.0**	**10.8**	**27.4**
Total BTEX + MTBE		**66.23**	**16.76**	**174.35**	**637**	**1922**	**107**	**213.1**	**1277**	**61.3**	**135.3**
Di-Isopropyl ether	70										<1.0
EPA 610											
Chrysene	4.79	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
Naphthalene	21	<5.0	<5.4	**7.2**	**34.2**	**48.4**	**3.2 J**	**1.1 J**	**12.4**	**4.8 J**	**2.9 J**
Acenaphthene	80	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<3.9	<4.8	<4.9	<4.9
Acenaphthylene	210	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<3.9	<4.8	<4.9	<4.9
Benzo(a)anthracene	0.0479	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<0.19	<4.8	<4.9	<4.9
Pyrene	210	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
Fluorene	280	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
Anthracene	2100	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
Fluoranthene	280	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
Phenanthrene	210	<5.0	<5.4	<5.1	<5.1	<5.2	<4.8	<1.9	<4.8	<4.9	<4.9
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	<5.0	**7.3**	<1.2	**1.9 B**	**6.8**
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-14**

Client Sample ID:		GW-237	UST820-MW14-01C3	UST820-MW14-02B	UST820-MW14-02C	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14	UST820-MW14
Date Sampled:		06/22/01	09/27/01	04/26/02	10/30/02	04/18/03	10/17/03	04/15/04	11/20/04	3/1/05	5/31/05	8/9/05	2/3/06	10/16/06	10/19/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602															
Benzene	1	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	**0.93 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**2.1 J**	<10	**0.53 J**	<1.0	<1.0	<1.0	<1.0	**2.6**	**3.5**	**0.6 J**	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<1.0	<2.0	**37.2**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	**0.36 J**	<1.0	**89.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE		**0.36**		**135.4**					**3.53**	**3.50**	**0.60**				
Di-Isopropyl ether	70														<1.0
EPA 610															
Chrysene	4.79	<0.10	<0.10	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<2.0	<2.0	**2.9**	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<1.0	<1.0	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<1.0	<1.0	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<0.10	<0.10	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<0.10	<0.25	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<2.0	<2.0	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<1.0	<1.0	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<0.20	<0.25	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<1.0	<1.0	<5.0	<5.1	<5.1	<5.1	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A															
Lead	15	NA	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<1.2	<3.4	<2.1
		Bold type indicates detectable concentrations.													
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).													

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-15**

Client Sample ID:		UST820-MW15-02B	UST820-MW15-02C	UST820-MW15	UST820-MW15	UST820-MW15	UST820-MW15	UST820-MW15	UST820-MW15	UST820-MW15	UST820-MW15
Date Sampled:		04/26/02	10/28/02	04/08/03	10/17/03	04/13/04	11/06/04	08/06/05	02/02/06	10/12/06	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	**0.65 J**	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	**1.4 J**	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	**0.89 J**	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE							**5.04**				
Di-Isopropyl ether	70										<1.0
EPA 610											
Chrysene	4.79	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Naphthalene	21	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Acenaphthene	80	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<4.0	<4.8	<4.8	<4.8
Acenaphthylene	210	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<4.0	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<0.2	<4.8	<4.8	<4.8
Pyrene	210	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Fluorene	280	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Anthracene	2100	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Fluoranthene	280	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
Phenanthrene	210	<5.0	<5.2	<5.1	<5.1	<5.2	<4.8	<2.0	<4.8	<4.8	<4.8
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	<5.0	<5.0	<1.2	<1.7	<2.1
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

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Project #125709

Analytical Data Summary

Type II Well: **MW-16**

Client Sample ID:		UST820-MW16-02B	UST820-MW16-02C	UST820-MW16	UST820-MW16	UST820-MW16	UST820-MW16	UST820-MW16	UST820-MW16	UST820-MW16	UST820-MW16
Date Sampled:		04/25/02	10/29/02	04/18/03	10/07/03	04/15/04	11/20/04	8/8/05	2/2/06	10/16/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	<1.0	<1.0	<1.0	<1.0	**2.4**	**2.6**	**8.6**	<1.0	<1.0	**0.50 J**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	**0.6 J**	**2.7**	<1.0	<1.0	**0.70 J**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**1.1 J**
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE						**2.4**	**3.2**	**11.3**			
Di-Isopropyl ether	70										<1.0
EPA 610											
Chrysene	4.79	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<5.5	<5.1	<5.1	<5.2	<5.3	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	<5.0	**18.7**	<1.2	**8.1 B**	**2.3 B**
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-17**

Client Sample ID:		UST820-MW17-02B	UST820-MW17-02C	UST820-MW17	UST820-MW17	UST820-MW17	UST820-MW17	UST820-MW17	UST820-MW17	UST820-MW17	UST820-MW17
Date Sampled:		04/25/02	10/29/02	04/18/03	10/07/03	04/15/04	11/20/04	8/8/05	2/2/06	10/16/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	**17.4**	<1.0	**45.8**	**364**	**181**	**242**	**552**	**675**	**695**	**53**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<20	<50	<50
Methyl tert-butyl ether	200	**61**	**12.4**	**148**	**1860**	**1500**	**1760**	**4250**	**5180**	**4520**	**2960**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<10	<1.0	**1.2**	<20	<50	<50
Xylenes (total)	530	<3.0	<3.0	**1.9 J**	**3.3**	<30	**2.3 J**	**5.1**	<60	<150	<150
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<20	<50	<50
Total BTEX + MTBE		**78.4**	**12.4**	**195.7**	**2227.3**	**1681**	**4494.3**	**4808.3**	**5855.0**	**5215.0**	**3013.4**
Di-Isopropyl ether	70										<50
EPA 610											
Chrysene	4.79	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Naphthalene	21	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Acenaphthene	80	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<3.8	<4.8	<4.9	<4.8
Acenaphthylene	210	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<3.8	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<0.19	<4.8	<4.9	<4.8
Pyrene	210	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Fluorene	280	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Anthracene	2100	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Fluoranthene	280	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
Phenanthrene	210	<5.5	<5.1	<5.1	<5.2	<5.1	<4.8	<1.9	<4.8	<4.9	<4.8
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	<15	<20	**5.2**	<3.4	<42
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-18**

Client Sample ID:		UST820-MW18	UST820-MW18	UST820-MW18	UST820-MW18	UST820-MW18	UST820-MW18	UST820-MW18
Date Sampled:		11/20/04	2/26/05	5/31/05	8/10/05	2/2/06	10/17/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	**5.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**13.2**	<3.0	<3.0	<3.0	<3.0	**1.8 J**
Toluene	1000	<1.0	**10.5**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE			**29.9**					
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.9	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.9	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.9	<4.8	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.9	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A								
Lead	15	<5.0	<100	<5.0	<5.0	<1.2	<1.7	**6.5**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type III Well: **MW-19**

Client Sample ID:		UST820-MW19-01C3	UST820-MW19-02B	UST820-MW19-02C	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19	UST820-MW19
Date Sampled:		09/26/01	04/24/02	10/30/02	04/14/03	10/07/03	04/16/04	11/20/04	2/26/05	5/31/05	8/8/05	2/2/06	10/17/06	10/23/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602														
Benzene	1	<1.0	**1.4**	<1.0	**0.87 J**	**0.76 J**	**0.79 J**	**0.57 J**	**4.1**	**0.75 J**	<1.0	NA	<1.0	NA
Chlorobenzene	50	<1.0	<1.0	<1.0	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	NA	<1.0	NA
Methyl tert-butyl ether	200	<10	**8.2**	**5.1**	**4.4**	**3.0**	**4.5**	**4.7**	**8.0**	**9.0**	**8.0**	NA	**7.4**	NA
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	**8.3**	**0.6 J**	<1.0	NA	<1.0	NA
Xylenes (total)	530	<2.0	<3.0	<3.0	<3.0	<3.0	**1.8 J**	<1.0	**21.8**	<3.0	<3.0	NA	<3.0	NA
Toluene	1000	<1.0	**0.75 J**	<1.0	**<1.0**	<1.0	**1.3**	<1.0	**23.1**	**1.0**	<1.0	NA	<1.0	NA
Total BTEX + MTBE			**10.35**		**5.27**	**3.76**	**8.39**	**5.27**	**65.3**	**11.35**	**8.00**	NA	**7.40**	NA
Di-Isopropyl ether	70													NA
EPA 610														
Chrysene	4.79	<0.10	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
Naphthalene	21	<2.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	**1.5 J**	<4.8	<1.9	NA	<5.0	NA
Acenaphthene	80	<1.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<3.8	NA	<5.0	NA
Acenaphthylene	210	<1.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<3.8	NA	<5.0	NA
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<0.19	NA	<5.0	NA
Pyrene	210	<0.25	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
Fluorene	280	<2.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
Anthracene	2100	<1.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
Fluoranthene	280	<0.25	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
Phenanthrene	210	<1.0	<5.5	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	<4.8	<1.9	NA	<5.0	NA
SW846-3010A														
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0	**19.9**	<100	NA	<68	NA
		Bold type indicates detectable concentrations.												
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).												

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-20**

Client Sample ID:		UST820-MW20	UST820-MW20	UST820-MW20	UST820-MW20	UST820-MW20	UST820-MW20	UST820-MW20
Date Sampled:		11/20/04	3/1/05	5/31/05	8/9/05	2/2/06	10/17/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	**1.0**	<1.0	<1.0	**0.69 J**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	**0.53 J**	**0.59 J**	**1.3**	**2.2**
Ethylbenzene	550	<1.0	**3.5**	<1.0	<1.0	**8.0**	<1.0	<1.0
Xylenes (total)	530	<3.0	**8.6**	<3.0	<3.0	**7.8**	<3.0	<3.0
Toluene	1000	<1.0	**6.1**	<1.0	<1.0	**1.1**	<1.0	<1.0
Total BTEX + MTBE			**19.2**		**0.53**	**18.18**	**1.3**	**2.2**
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<1.9	**1.5 J**	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<3.9	<4.9	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<3.9	<4.9	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<0.19	<4.9	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<1.9	<4.9	<4.8	<4.8
SW846-3010A								
Lead	15	<5.0	<5.0	<5.0	**6.1**	<1.2	<1.7	<2.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

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Project #125709

Analytical Data Summary

Type III Well: **MW-21**

Client Sample ID:		UST820-MW21-01C3	UST820-MW21-02B	UST820-MW21-02C	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21	UST820-MW21
Date Sampled:		09/25/01	04/24/02	10/30/02	04/14/03	10/07/03	04/16/04	11/20/04	3/1/05	5/31/05	8/9/05	2/2/06	10/17/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602														
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<10	<1.0	<1.0	<1.0	<1.0	**0.51 J**	**0.84 J**	**0.85 J**	**0.87 J**	**0.85 J**	**1.5**	**0.96 J**	**1.4 J**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<2.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**12.5**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11.7**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE							**0.51**	**0.84**	**32.85**	**0.87**	**0.85**	**1.50**	**0.96**	**1.40**
Di-Isopropyl ether	70													<1.0
EPA 610														
Chrysene	4.79	<0.10	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Naphthalene	21	<2.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Acenaphthene	80	<1.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<3.9	<4.8	<4.9	<4.8
Acenaphthylene	210	<1.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<3.9	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<0.19	<4.8	<4.9	<4.8
Pyrene	210	<0.25	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Fluorene	280	<2.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Anthracene	2100	<1.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Fluoranthene	280	<0.25	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Phenanthrene	210	<1.0	<5.5	<5.0	<5.1	<5.6	<5.2	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
SW846-3010A														
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0	<5.0	<10	**7.2**	**1.7 B**	<8.4
		Bold type indicates detectable concentrations.												
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).												

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #125709

Analytical Data Summary

Type II Well: **MW-22**

Client Sample ID:		UST820-MW22	UST820-MW22	UST820-MW22	UST820-MW22	UST820-MW22	UST820-MW22	UST820-MW22
Date Sampled:		11/30/04	3/1/05	5/31/05	8/10/05	2/3/06	10/18/06	10/24/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE								
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Naphthalene	21	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Acenaphthene	80	<4.8	<4.8	<4.8	<3.8	<4.9	<4.9	<4.9
Acenaphthylene	210	<4.8	<4.8	<4.8	<3.8	<4.9	<4.9	<4.9
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<0.19	<4.9	<4.9	<4.9
Pyrene	210	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Fluorene	280	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Anthracene	2100	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Fluoranthene	280	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
Phenanthrene	210	<4.8	<4.8	<4.8	<1.9	<4.9	<4.9	<4.9
SW846-3010A								
Lead	15	<5.0	<5.0	<5.0	<5.0	<1.2	<3.4	<2.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

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Analytical Data Summary

Type III Well: **MW-23**

Client Sample ID:		UST820-MW23	UST820-MW23	UST820-MW23	UST820-MW23	UST820-MW23	UST820-MW23	UST820-MW23
Date Sampled:		11/30/04	3/1/05	5/31/05	8/10/05	2/3/06	10/18/06	10/24/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**2.2**	**2.9**	**2.7**	**1.6**	**0.97 J**	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE			**2.20**	**2.90**	**2.70**	**1.60**	**0.97**	
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Naphthalene	21	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Acenaphthene	80	<4.8	<4.8	<4.9	<3.8	<4.8	<4.9	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.9	<3.8	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.9	<0.19	<4.8	<4.9	<4.8
Pyrene	210	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Fluorene	280	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Anthracene	2100	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Fluoranthene	280	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
Phenanthrene	210	<4.8	<4.8	<4.9	<1.9	<4.8	<4.9	<4.8
SW846-3010A								
Lead	15	**5.4**	<5.0	<5.0	**8.2**	**2.1 B**	<3.4	<2.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-24**

Client Sample ID:		UST820-MW24	UST820-MW24	UST820-MW24	UST820-MW24	UST820-MW24	UST820-MW24	UST820-MW24
Date Sampled:		11/30/04	2/26/05	5/27/05	8/9/05	2/2/06	10/16/06	10/19/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	**1.9**	<1.0	<1.0	**2.9**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0	<1.0	**0.7 J**	<1.0	<1.0
Ethylbenzene	550	<1.0	**6.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**16.1**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	**15**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE			**39.2**			**3.6**		
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	**0.97 J**	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A								
Lead	15	**5.2**	**5.9**	<5.0	**9.5**	**18.2**	**4.2 B**	**2.4 B**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-25**

Client Sample ID:		UST820-MW25	UST820-MW25	UST820-MW25	UST820-MW25	UST820-MW25	UST820-MW25	UST820-MW25
Date Sampled:		11/30/04	2/26/05	5/27/05	8/8/05	2/2/06	10/16/06	10/19/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	**4.2**	<1.0	<1.0	**4.5**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**1.5**	<1.0	**0.65 J**	<1.0	**1.2**	**0.77 J**	<1.0
Ethylbenzene	550	<1.0	**9.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**23.8**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	**26.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE			**63.4**	**0.65**		**5.70**	**0.77**	
Di-Isopropyl ether	70							<1.0
EPA 610								
Chrysene	4.79	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	**1.6 J**	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A								
Lead	15	<5.0	<5.0	<5.0	<5.0	**6.9**	**1.8 B**	<2.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-26**

Client Sample ID:		UST820-MW26-01C3	UST820-MW26-02B	UST820-MW26-02C	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26	UST820-MW26
Date Sampled:		10/02/01	04/26/02	10/29/02	04/18/03	10/17/03	04/20/04	11/20/04	2/26/05	5/27/05	8/9/05	2/5/06	10/13/06	10/19/07
Analyte (ug/l)	GWQS	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
EPA 602														
Benzene	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	**2.1**	<1.0	<1.0	**5.1**	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**10**	**28.5**	**14.8**	**0.54 J**	<1.0	<1.0	**4.3**	**6.9**	<1.0	**1.5**	<1.0	**1.5**	<1.0
Ethylbenzene	550	**3.2**	**3.1**	<1.0	<1.0	<1.0	<1.0	<1.0	**6.5**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	**18**	**16.7**	<3.0	**2.1 J**	<3.0	<3.0	<3.0	**16.7**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	**14**	**30.2**	<1.0	**0.87 J**	<1.0	<1.0	<1.0	**15.6**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX + MTBE		**47.8**	**78.5**	**15**	**3.51**			**5.3**	**47.8**		**1.5**	**5.1**	**1.5**	
Di-Isopropyl ether	70													<1.0
EPA 610														
Chrysene	4.79	<0.10	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Naphthalene	21	<2.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	**1.0 J**	<4.8	<1.9	<4.8	<4.9	<4.8
Acenaphthene	80	<1.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<3.8	<4.8	<4.9	<4.8
Acenaphthylene	210	<1.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<3.8	<4.8	<4.9	<4.8
Benzo(a)anthracene	0.0479	<0.10	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<0.19	<4.8	<4.9	<4.8
Pyrene	210	<0.25	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Fluorene	280	<2.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Anthracene	2100	<1.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Fluoranthene	280	<0.25	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
Phenanthrene	210	<1.0	<5.0	<5.2	<5.1	<5.0	<5.6	<4.8	<4.8	<4.8	<1.9	<4.8	<4.9	<4.8
SW846-3010A														
Lead	15	NA	NA	NA	NA	NA	NA	**11**	**9.6**	<5.0	**7.5**	**7.3**	<1.7	<2.1
		Bold type indicates detectable concentrations.												
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).												

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **MW-27**

Client Sample ID:		UST820-MW27-01C3	Well Dry	UST820-MW27	UST820-MW27	UST820-MW27	UST820-MW27	UST820-MW27	UST820-MW27	UST820-MW27	UST820-MW27
Date Sampled:		10/03/01	04/25/02	04/09/03	10/09/03	04/13/04	11/22/04	8/6/05	2/5/06	10/17/06	10/21/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	<1.0		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<10		**139**	**1.5**	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0		<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	<1.0
Xylenes (total)	530	<2.0		<6.0	<3.0	**3.3**	**1.4 J**	<3.0	<3.0	**70.0**	<3.0
Toluene	1000	<1.0		<2.0	<1.0	**0.65 J**	<1.0	<1.0	<1.0	**5.7**	<1.0
Total BTEX + MTBE				**139**	**2**	**5.15**	**1.4**			**78.3**	
Di-Isopropyl ether	70										<1.0
EPA 610											
Chrysene	4.79	<0.10		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	<4.8	<4.8
Naphthalene	21	<2.0		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	**5.0**	**5.0**
Acenaphthene	80	<1.0		<5.2	<5.2	<5.5	<4.8	<3.9	<4.8	<4.8	<4.8
Acenaphthylene	210	<1.0		<5.2	<5.2	<5.5	<4.8	<3.9	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<0.10		<5.2	<5.2	<5.5	<4.8	<0.2	<4.8	<4.8	<4.8
Pyrene	210	<0.25		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	<4.8	<4.8
Fluorene	280	<2.0		<5.2	<5.2	**10**	<4.8	<2.0	<4.8	<4.8	<4.8
Anthracene	2100	<1.0		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	<4.8	<4.8
Fluoranthene	280	<0.25		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	<4.8	<4.8
Phenanthrene	210	<1.0		<5.2	<5.2	<5.5	<4.8	<2.0	<4.8	<4.8	<4.8
SW846-3010A											
Lead	15	N/A		N/A	N/A	N/A	**6.0**	<5.0	**4.1 B**	**2.4 B**	<2.1
		Bold type indicates detectable concentrations.									
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-28**

Client Sample ID:		UST820-MW28	UST820-MW28	UST820-MW28	UST820-MW28	UST820-MW28
Date Sampled:		5/25/05	8/9/05	2/5/06	10/18/06	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	**1110**	**1130**	**258**	**94.3**	**1.7**
Chlorobenzene	50	<50	<1.0	<50	<1.0	<1.0
Methyl tert-butyl ether	200	**3350**	**2430**	**576**	**428**	**740 B**
Ethylbenzene	550	<50	<1.0	<50	<1.0	<1.0
Xylenes (total)	530	<150	<3.0	<150	<3.0	<3.0
Toluene	1000	<50	<1.0	<50	<1.0	<1.0
Total BTEX + MTBE		**4460**	**3560**	**834**	**522**	**742**
Di-Isopropyl ether	70					**4.4**
EPA 610						
Chrysene	4.79	<4.8	<1.9	<4.8	**4.8**	<4.8
Naphthalene	21	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<0.19	<4.8	**2.7 J**	<4.8
Pyrene	210	<4.8	<1.9	<4.8	**5.8**	<4.8
Fluorene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<1.9	<4.8	**7.4**	<4.8
Phenanthrene	210	<4.8	<1.9	<4.8	**2.0 J**	<4.8
SW846-3010A						
Lead	15	N/A	N/A	<1.2	<8.5	<2.1
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-29**

Client Sample ID:		UST820-MW29	UST820-MW29	UST820-MW29	UST820-MW29	UST820-MW29
Date Sampled:		5/25/05	8/9/05	2/3/06	10/18/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	**29.6**	**10.7**	**10.8**	**9.4**	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**31.8**	**23.2**	**16.4**	**11.4**	**6.6**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX+ MTBE		**61.4**	**33.9**	**27.2**	**20.8**	**6.6**
Di-Isopropyl ether	70					<1.0
EPA 610						
Chrysene	4.79	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<1.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A						
Lead	15	N/A	N/A	**14.6**	<1.7	<2.1
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type II Well: **PW-01**

Client Sample ID:		UST820-PW01	UST820-PW01	UST820-PW01	UST820-PW01	UST820-PW01
Date Sampled:		11/22/04	8/8/05	2/1/06	1/3/07	10/17/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	**109**	**12.2**	**36.9**	**17.2**	**1.4**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**11.6**	**10.6**	**7.9**	**34.5**	**8.5**
Ethylbenzene	550	**78.2**	**10.5**	**7.1**	**16.6**	**18.5**
Xylenes (total)	530	**333**	**70.3**	**106**	**362**	**45.8**
Toluene	1000	**48.3**	**2.4**	**24.1**	**75.4**	**2.7**
Total BTEX + MTBE		**568.5**	**95.4**	**182.0**	**505.7**	**76.9**
Di-Isopropyl ether	70					<1.0
EPA 610						
Chrysene	4.79	<4.8	<1.9	<4.8	<4.8	<4.8
Naphthalene	21	**10.8**	**1.2 J**	<4.8	**6.8**	<4.8
Acenaphthene	80	<4.8	<3.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<3.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<0.19	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<1.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<1.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<1.9	<4.8	<4.8	<4.8
SW846-3010A						
Lead	15	<5.0	<5.0	**2.0 B**	<1.7	<2.1
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-30**

Client Sample ID:		UST820-MW30	UST820-MW30
Date Sampled:		10/14/06	10/18/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	**5.6**	**6**
Ethylbenzene	550	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0
Toluene	1000	<1.0	<1.0
Total BTEX+ MTBE		**5.6**	**6.0**
Di-Isopropyl ether	70		<1.0
EPA 610			
Chrysene	4.79	<4.8	<4.9
Naphthalene	21	<4.8	<4.9
Acenaphthene	80	<4.8	<4.9
Acenaphthylene	210	<4.8	<4.9
Benzo(a)anthracene	0.0479	<4.8	<4.9
Pyrene	210	<4.8	<4.9
Fluorene	280	<4.8	<4.9
Anthracene	2100	<4.8	<4.9
Fluoranthene	280	<4.8	<4.9
Phenanthrene	210	<4.8	<4.9
SW846-3010A			
Lead	15	<3.4	<2.1
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-31**

Client Sample ID:		UST820-MW31	UST820-MW31
Date Sampled:		10/14/06	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0
Toluene	1000	<1.0	<1.0
Total BTEX+ MTBE			
Di-Isopropyl ether	70		<1.0
EPA 610			
Chrysene	4.79	<4.8	<4.8
Naphthalene	21	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8
Pyrene	210	<4.8	<4.8
Fluorene	280	<4.8	<4.8
Anthracene	2100	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8
SW846-3010A			
Lead	15	<3.4	<2.1
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-32**

Client Sample ID:		UST820-MW32	UST820-MW32
Date Sampled:		10/14/06	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0
Toluene	1000	<1.0	<1.0
Total BTEX+ MTBE			
Di-Isopropyl ether	70		<1.0
EPA 610			
Chrysene	4.79	<4.8	<4.8
Naphthalene	21	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8
Pyrene	210	<4.8	<4.8
Fluorene	280	<4.8	<4.8
Anthracene	2100	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8
SW846-3010A			
Lead	15	<3.4	<2.1
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-33**

Client Sample ID:		UST820-MW33	UST820-MW33
Date Sampled:		10/18/06	10/24/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	**0.83 J**	<1.0
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0
Toluene	1000	<1.0	<1.0
Total BTEX+ MTBE		**0.83**	
Di-Isopropyl ether	70		<1.0
EPA 610			
Chrysene	4.79	<5.0	<4.9
Naphthalene	21	<5.0	<4.9
Acenaphthene	80	<5.0	<4.9
Acenaphthylene	210	<5.0	<4.9
Benzo(a)anthracene	0.0479	<5.0	<4.9
Pyrene	210	<5.0	<4.9
Fluorene	280	<5.0	<4.9
Anthracene	2100	<5.0	<4.9
Fluoranthene	280	<5.0	<4.9
Phenanthrene	210	<5.0	<4.9
SW846-3010A			
Lead	15	**2.6 B**	<2.1
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/14/2008
Samples analyzed by Accutest

CLJ - POL Berkeley Manor
Project #125709

Analytical Data Summary

Type III Well: **MW-34**

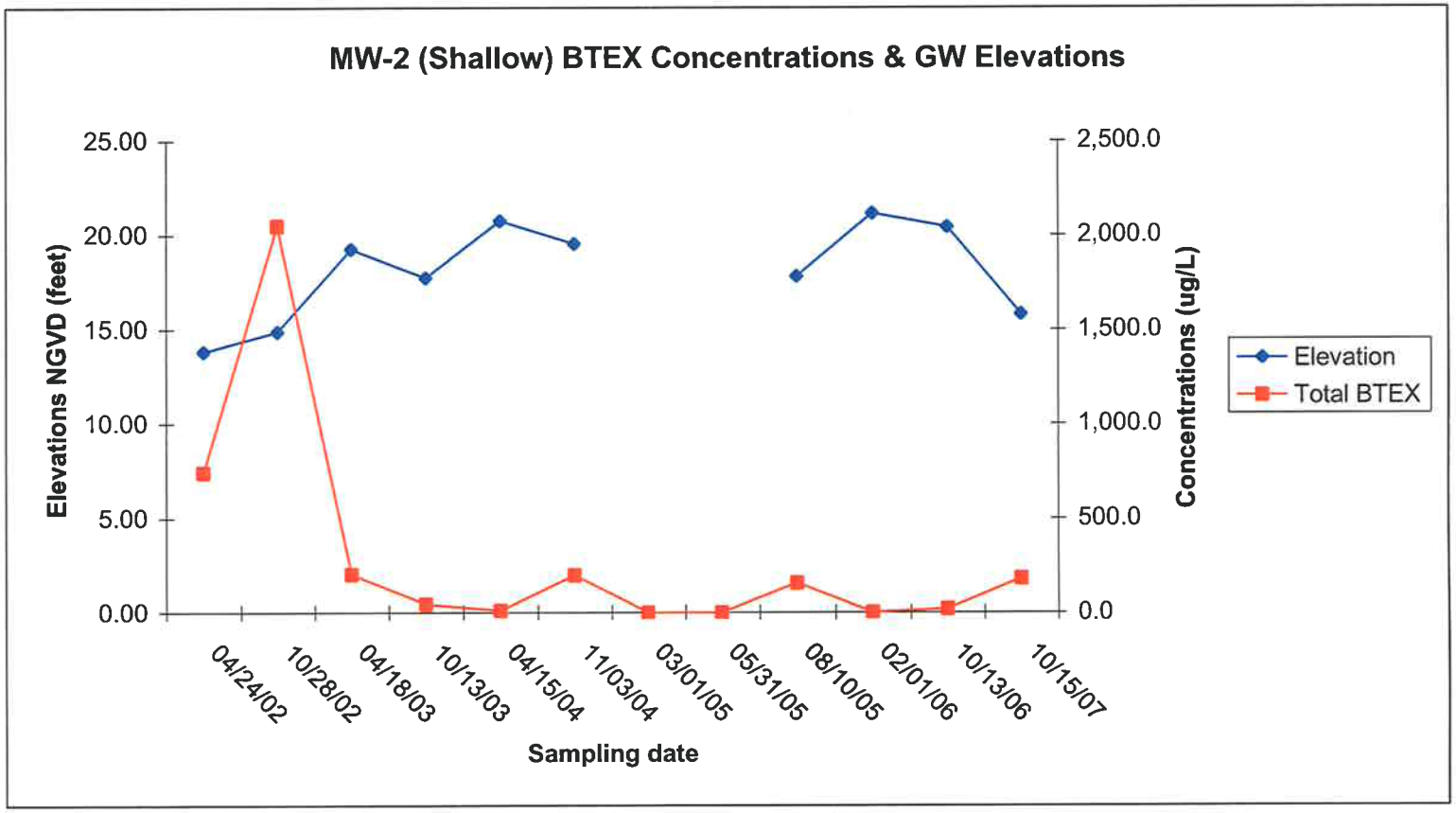
Client Sample ID:		UST820-MW34	UST820-MW34
Date Sampled:		10/18/06	10/15/07
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**1.3**
Ethylbenzene	550	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0
Toluene	1000	<1.0	<1.0
Total BTEX+ MTBE			
Di-Isopropyl ether	70		<1.0
EPA 610			
Chrysene	4.79	**1.2 J**	<4.8
Naphthalene	21	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8
Pyrene	210	**1.6 J**	<4.8
Fluorene	280	<4.8	<4.8
Anthracene	2100	<4.8	<4.8
Fluoranthene	280	**2.1 J**	<4.8
Phenanthrene	210	<4.8	<4.8
SW846-3010A			
Lead	15	<1.7	<2.1
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

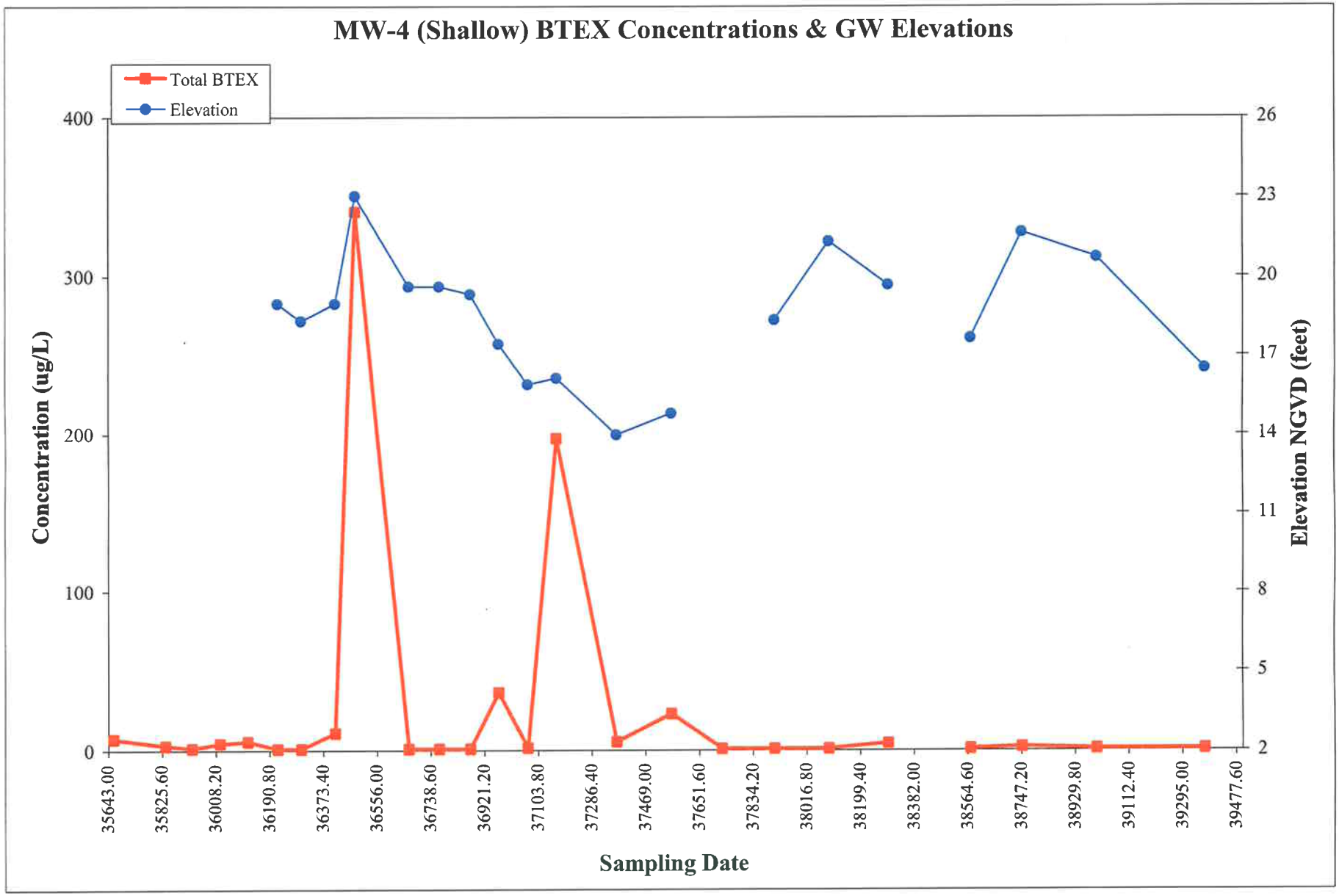
J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

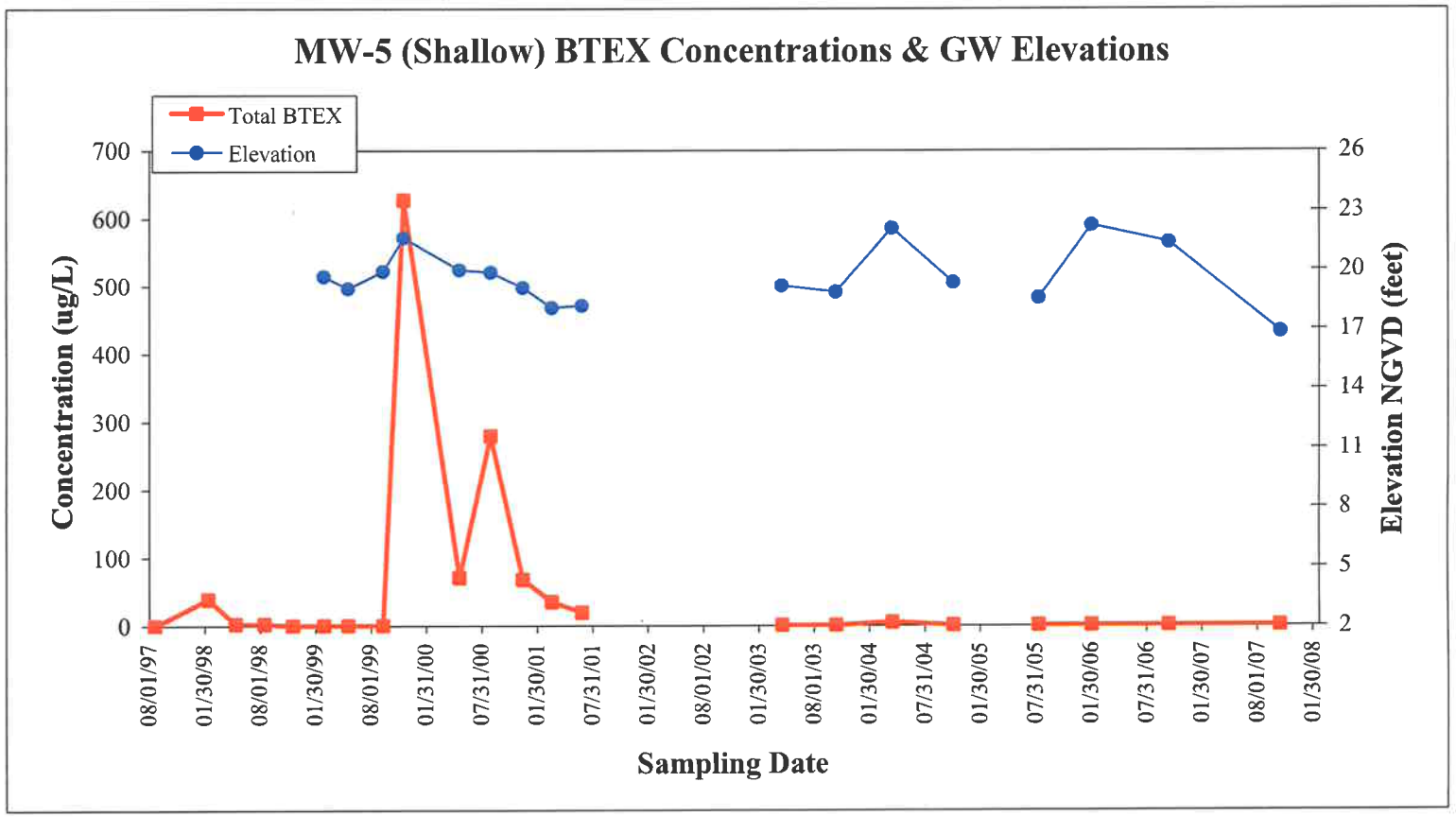
Printed: 3/14/2008
Samples analyzed by Accutest

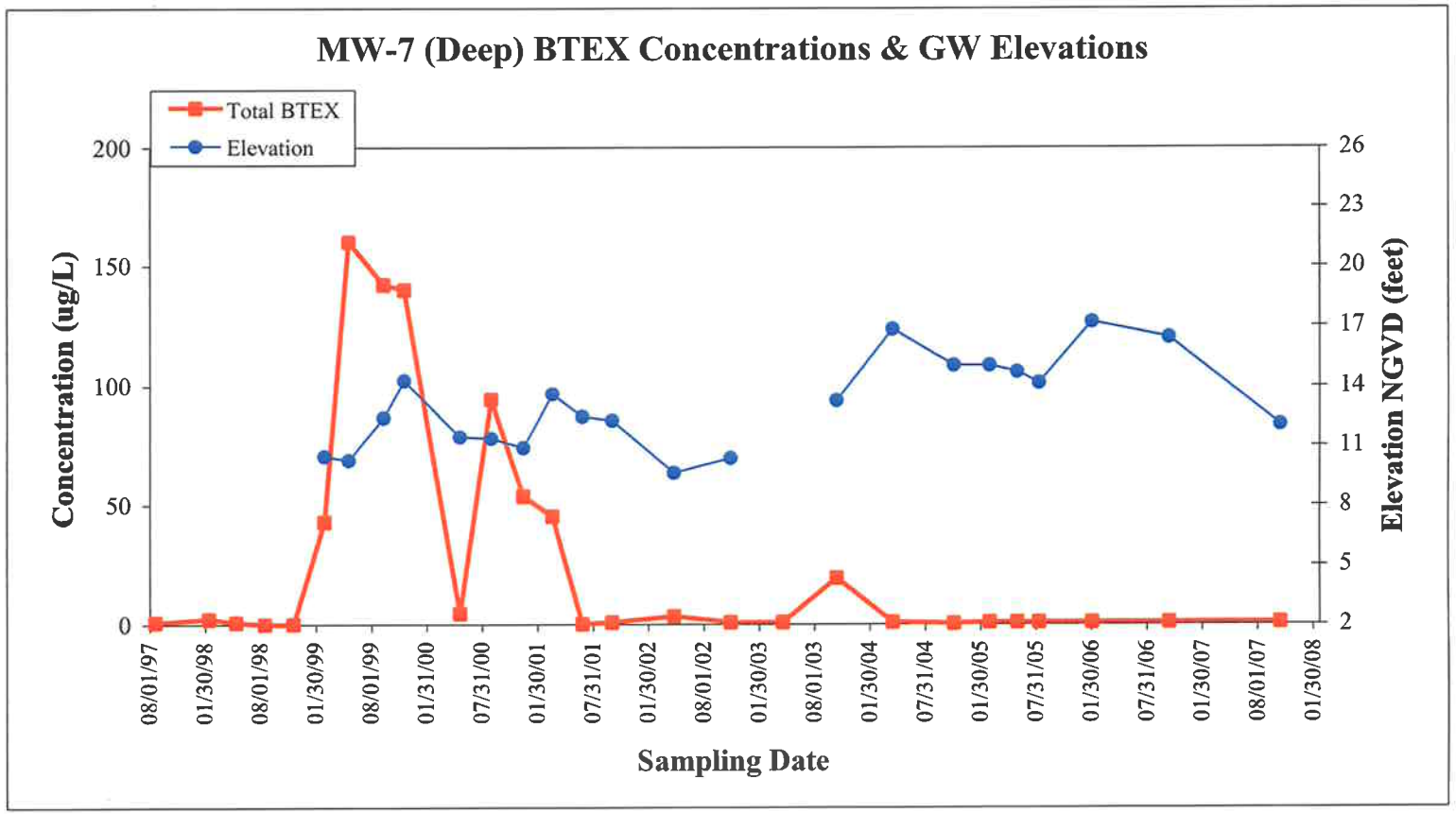
APPENDIX D

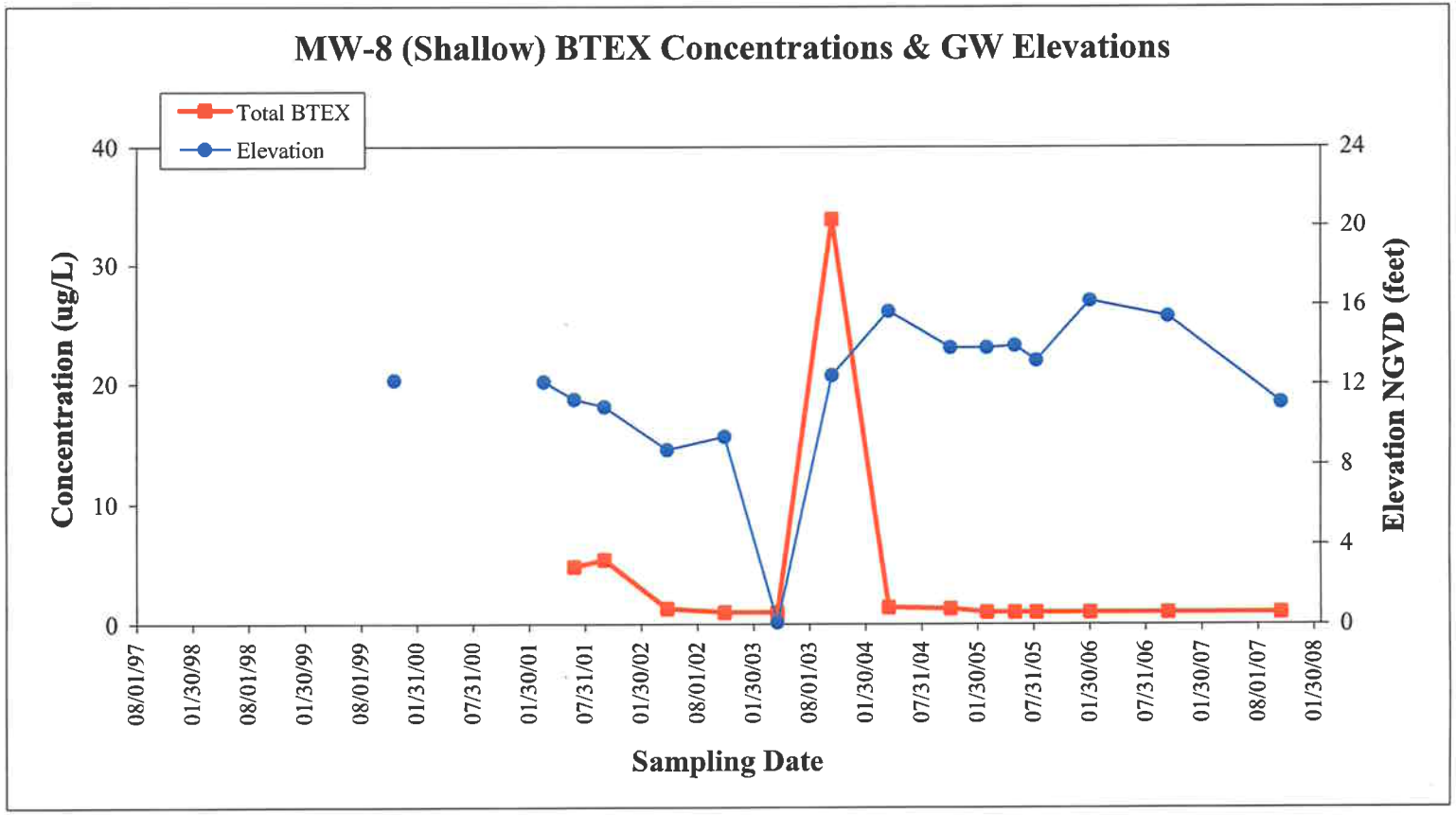
GROUNDWATER ELEVATION VS. BTEX CONCENTRATION GRAPHS
WELLS WITH DETECTED CONCENTRATIONS

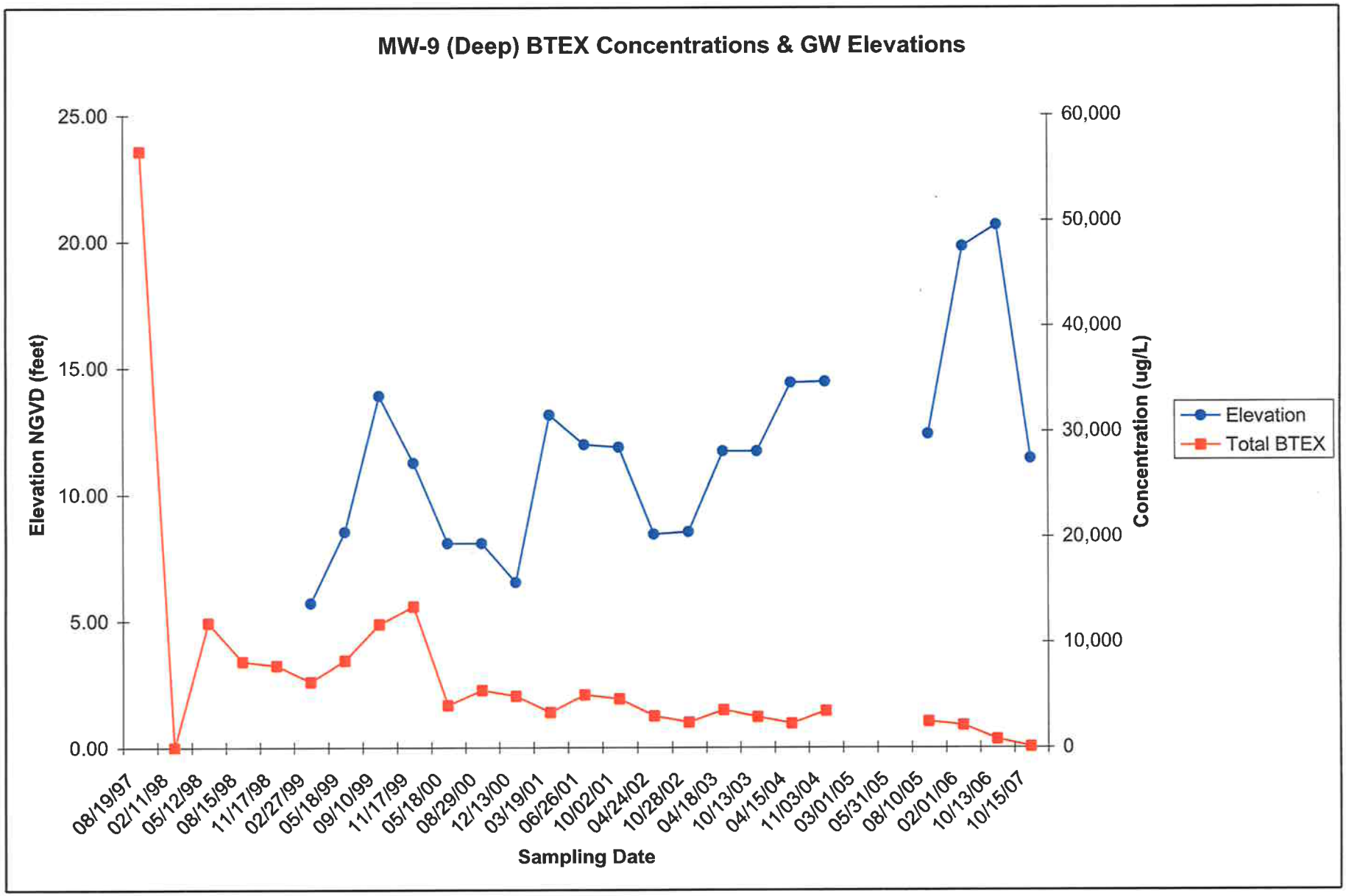

MW-2 (Shallow) BTEX Concentrations & GW Elevations
Elevations NGVD (feet)
25.00
20.00
15.00
10.00
5.00
0.00
Concentrations (ug/L)
2,500.0
2,000.0
1,500.0
1,000.0
500.0
0.0
Elevation
Total BTEX
04/24/02
10/28/02
04/18/03
10/13/03
04/15/04
11/03/04
03/01/05
05/31/05
08/10/05
02/01/06
10/13/06
10/15/07
Sampling date

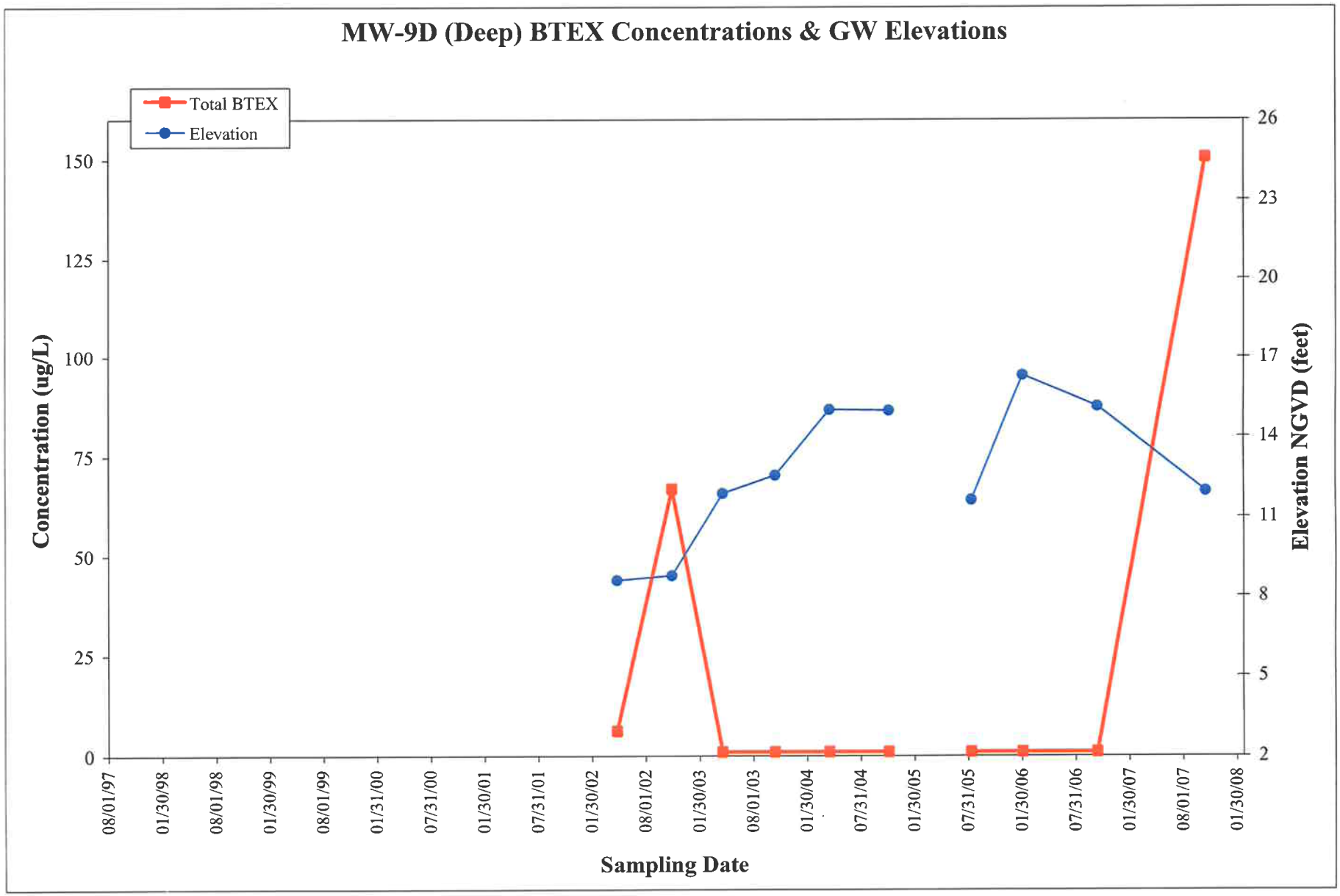

MW-4 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
400
300
200
100
0
26
23
20
17
14
11
8
5
2
35643.00
35825.60
36008.20
36190.80
36373.40
36556.00
36738.60
36921.20
37103.80
37286.40
37469.00
37651.60
37834.20
38016.80
38199.40
38382.00
38564.60
38747.20
38929.80
39112.40
39295.00
39477.60

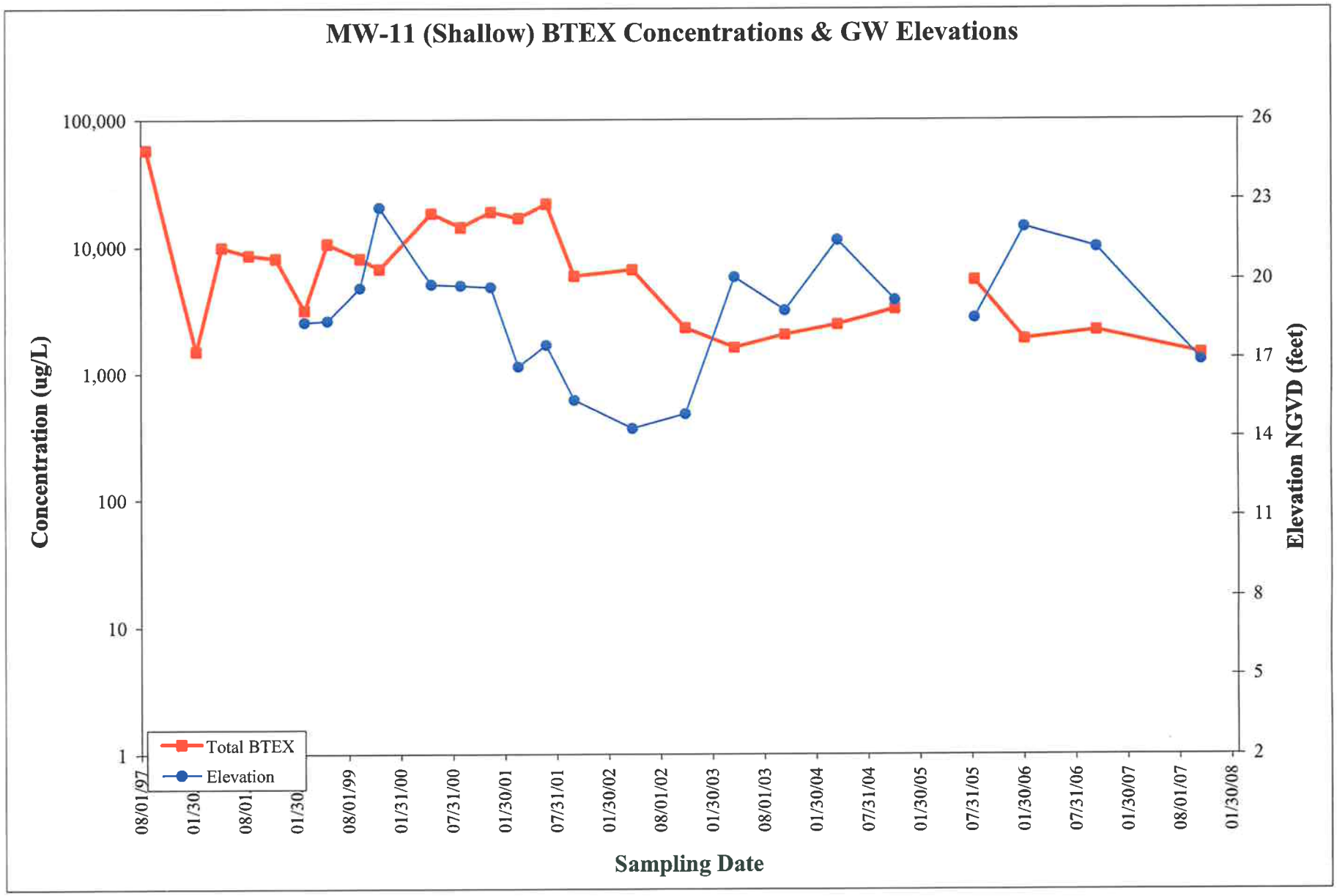

MW-5 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
100
200
300
400
500
600
700
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
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01/30/07
08/01/07
01/30/08

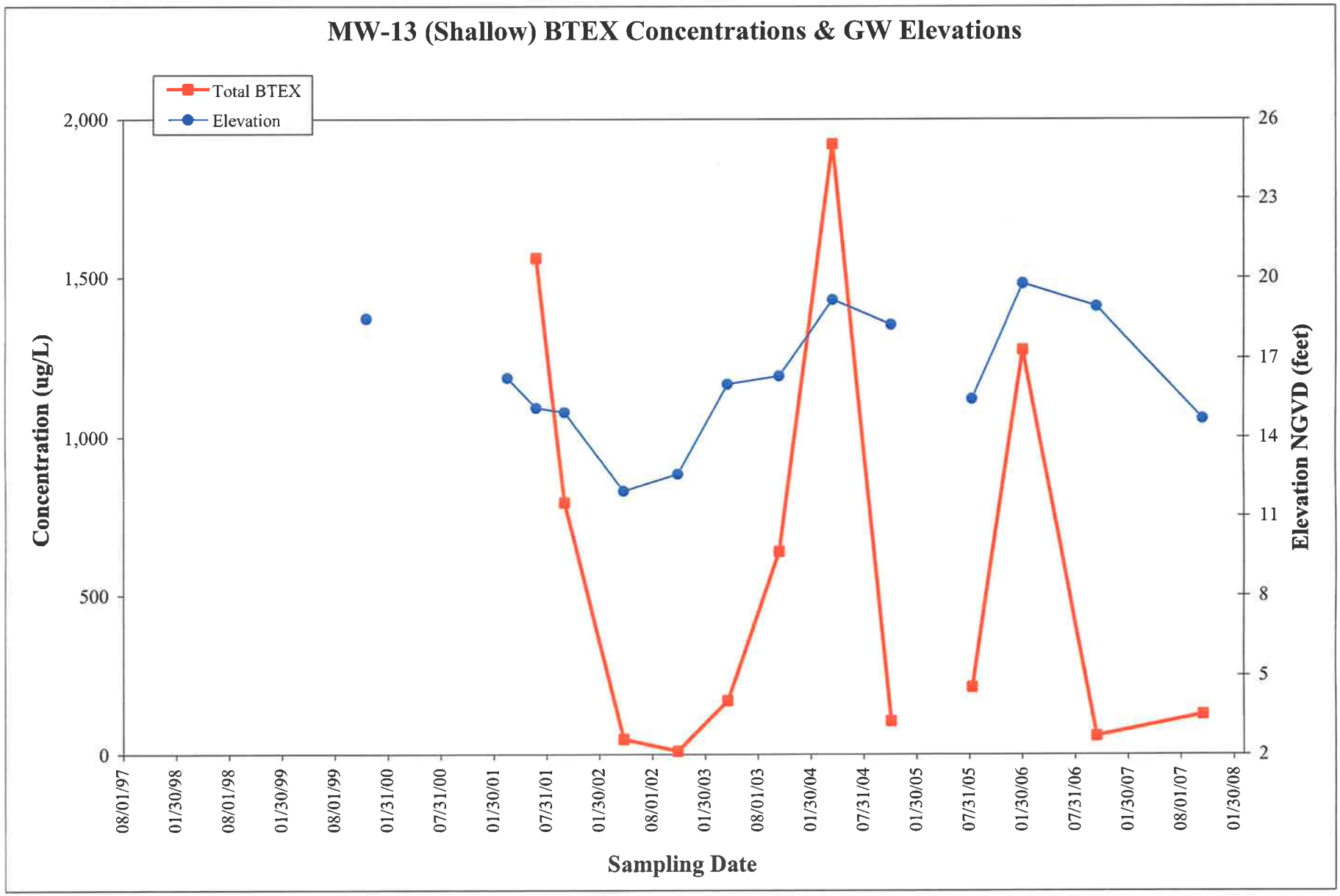

MW-7 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
200
150
100
50
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
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01/30/06
07/31/06
01/30/07
08/01/07
01/30/08

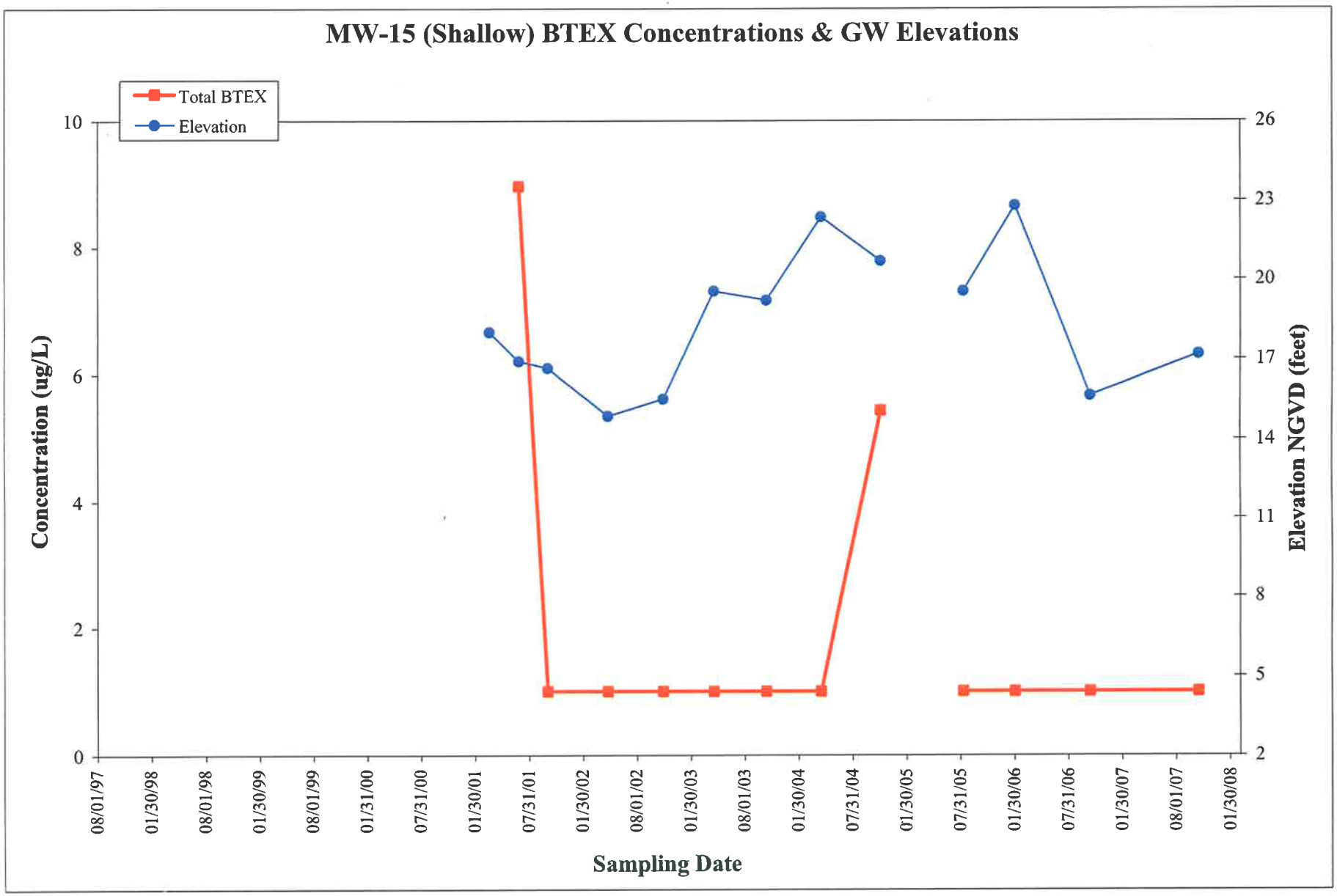

MW-8 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
10
20
30
40
0
4
8
12
16
20
24
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
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07/31/06
01/30/07
08/01/07
01/30/08

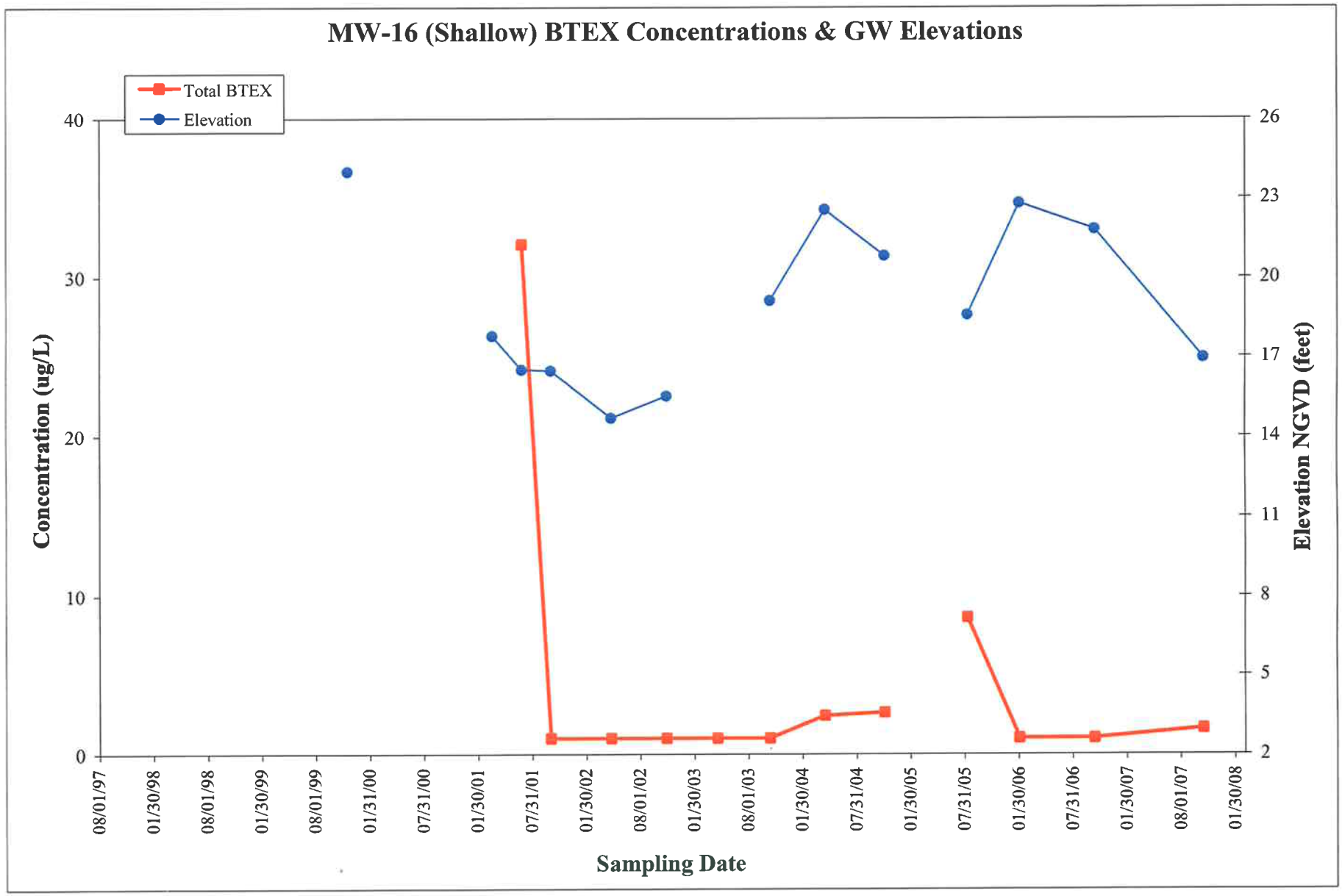

MW-9 (Deep) BTEX Concentrations & GW Elevations
Elevation NGVD (feet)
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ug/L)
60,000
50,000
40,000
30,000
20,000
10,000
0
Elevation
Total BTEX
08/19/97
02/11/98
05/12/98
08/15/98
11/17/98
02/27/99
05/18/99
09/10/99
11/17/99
05/18/00
08/29/00
12/13/00
03/19/01
06/26/01
10/02/01
04/24/02
10/28/02
04/18/03
10/13/03
04/15/04
11/03/04
03/01/05
05/31/05
08/10/05
02/01/06
10/13/06
10/15/07
Sampling Date

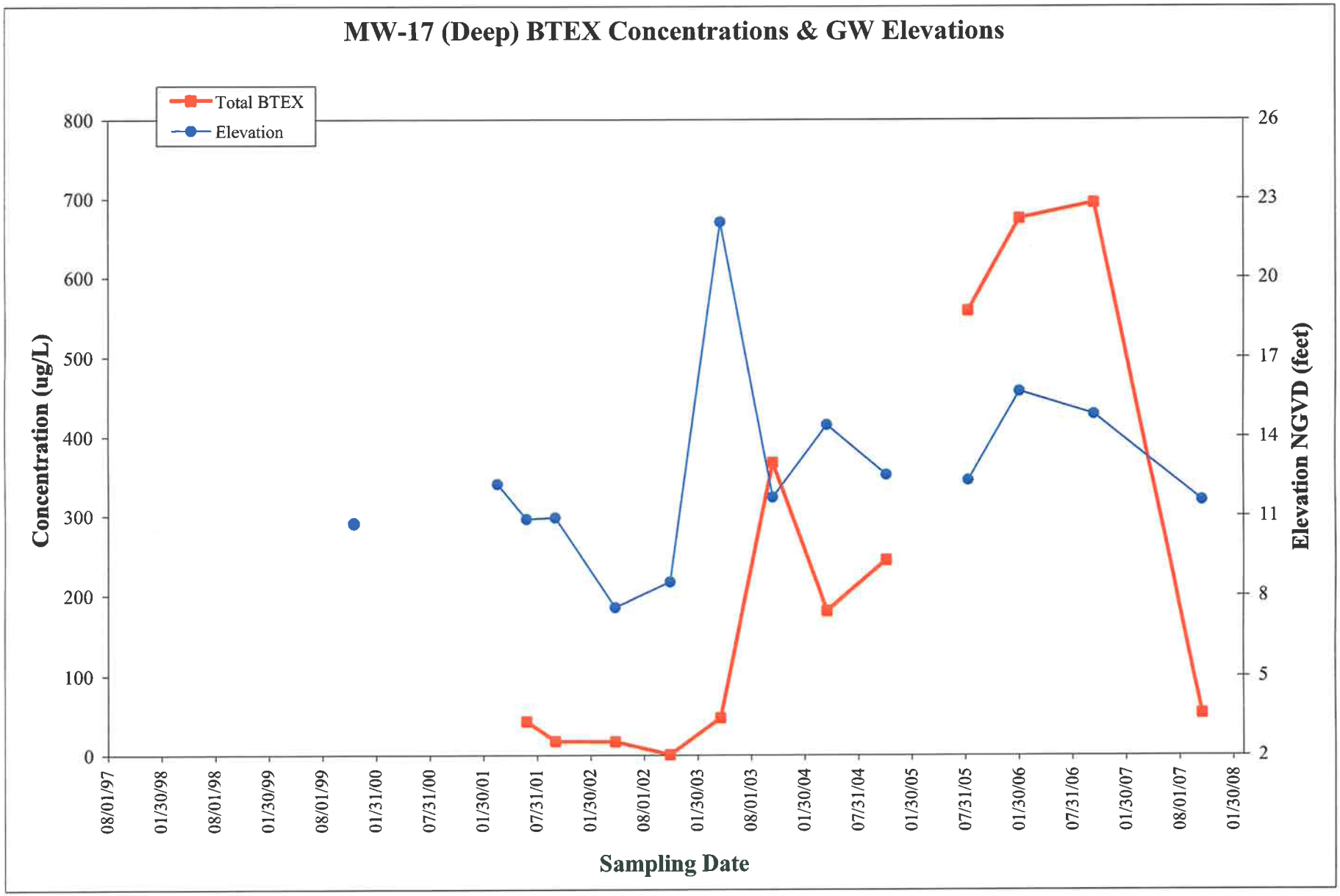

MW-9D (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
25
50
75
100
125
150
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08

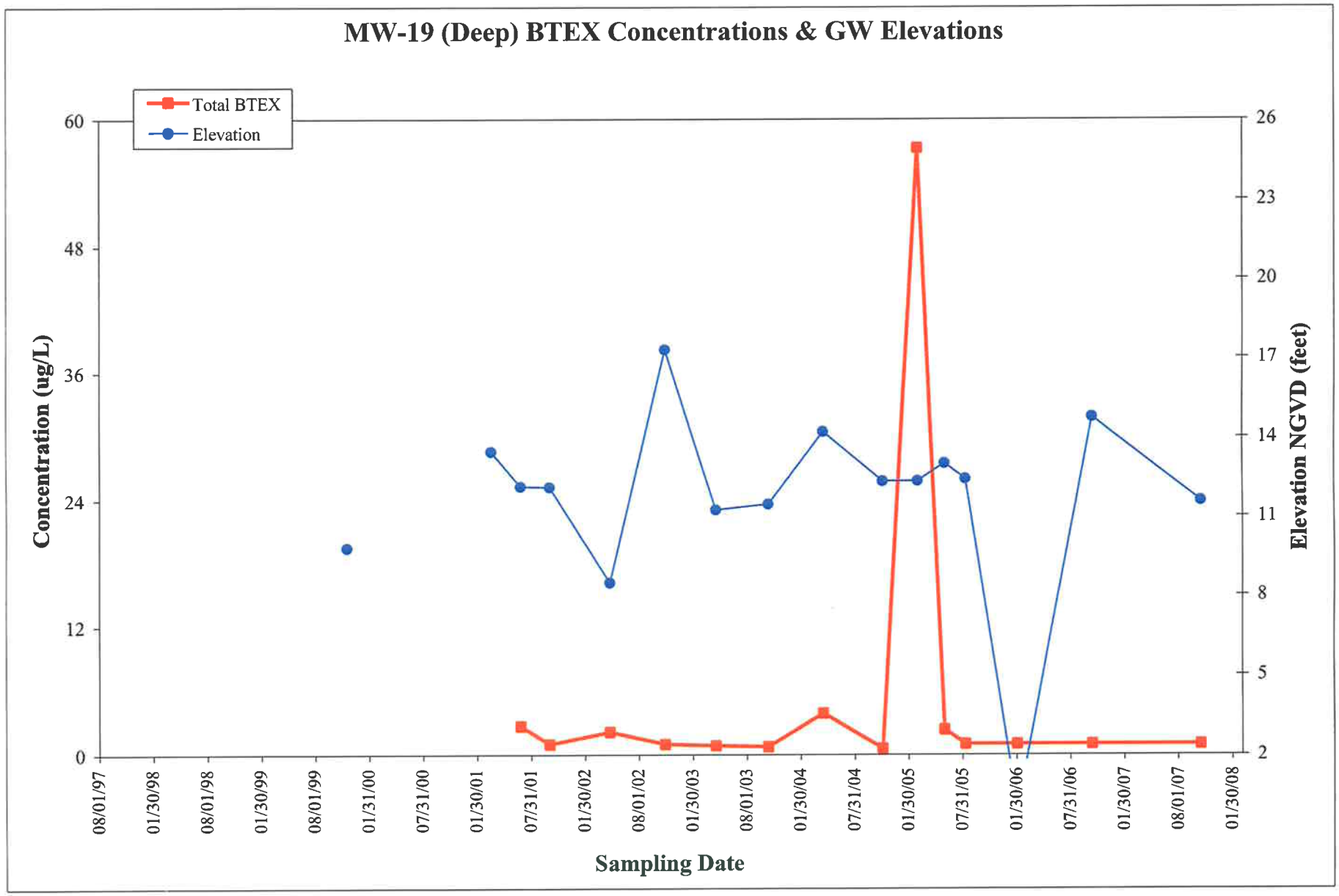

MW-11 (Shallow) BTEX Concentrations & GW Elevations
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
23
20
17
14
11
8
5
2
Total BTEX
Elevation
08/01/97
01/30
08/01
01/30
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08
Sampling Date

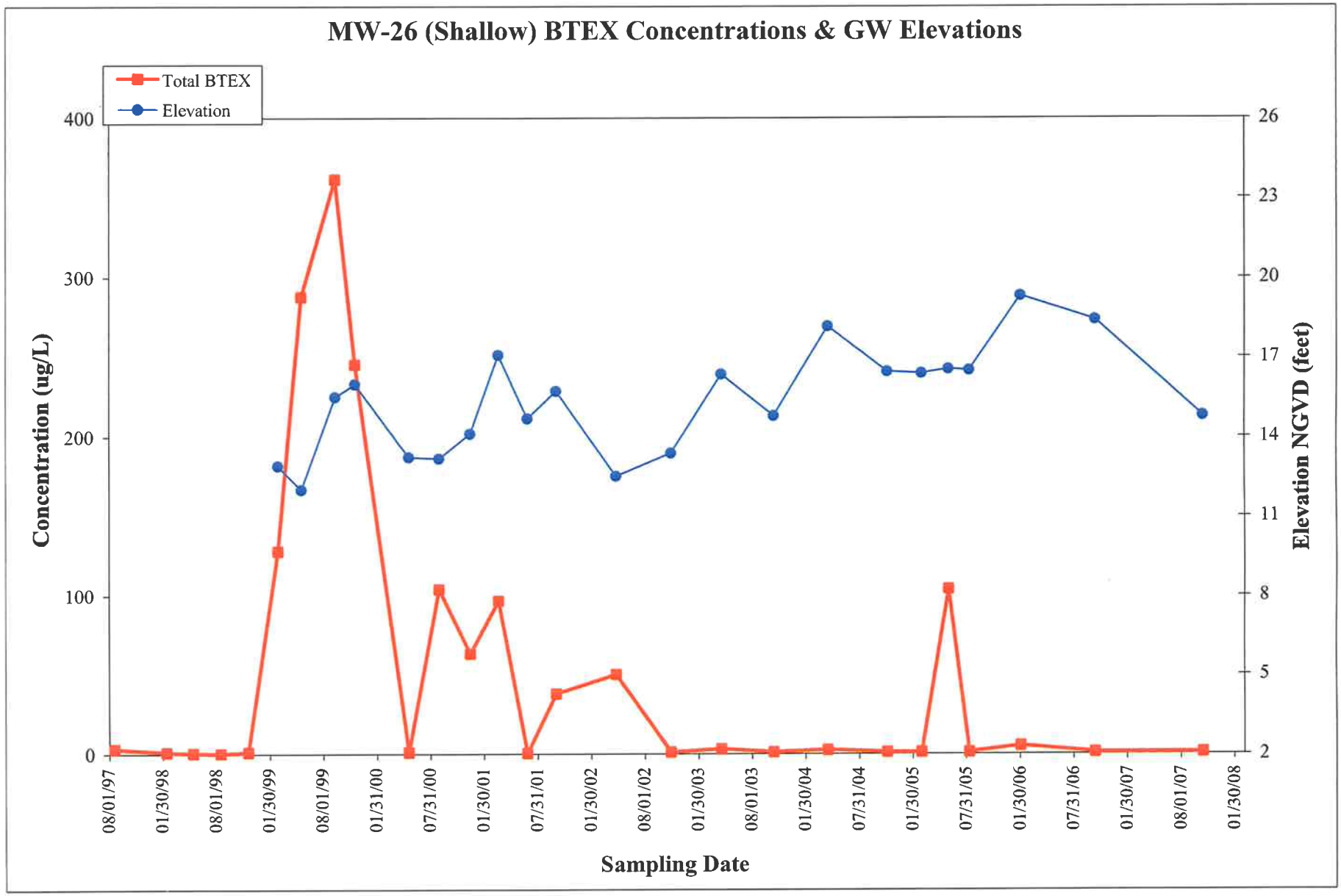

MW-13 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
2,000
1,500
1,000
500
0
Elevation NGVD (feet)
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08
Sampling Date

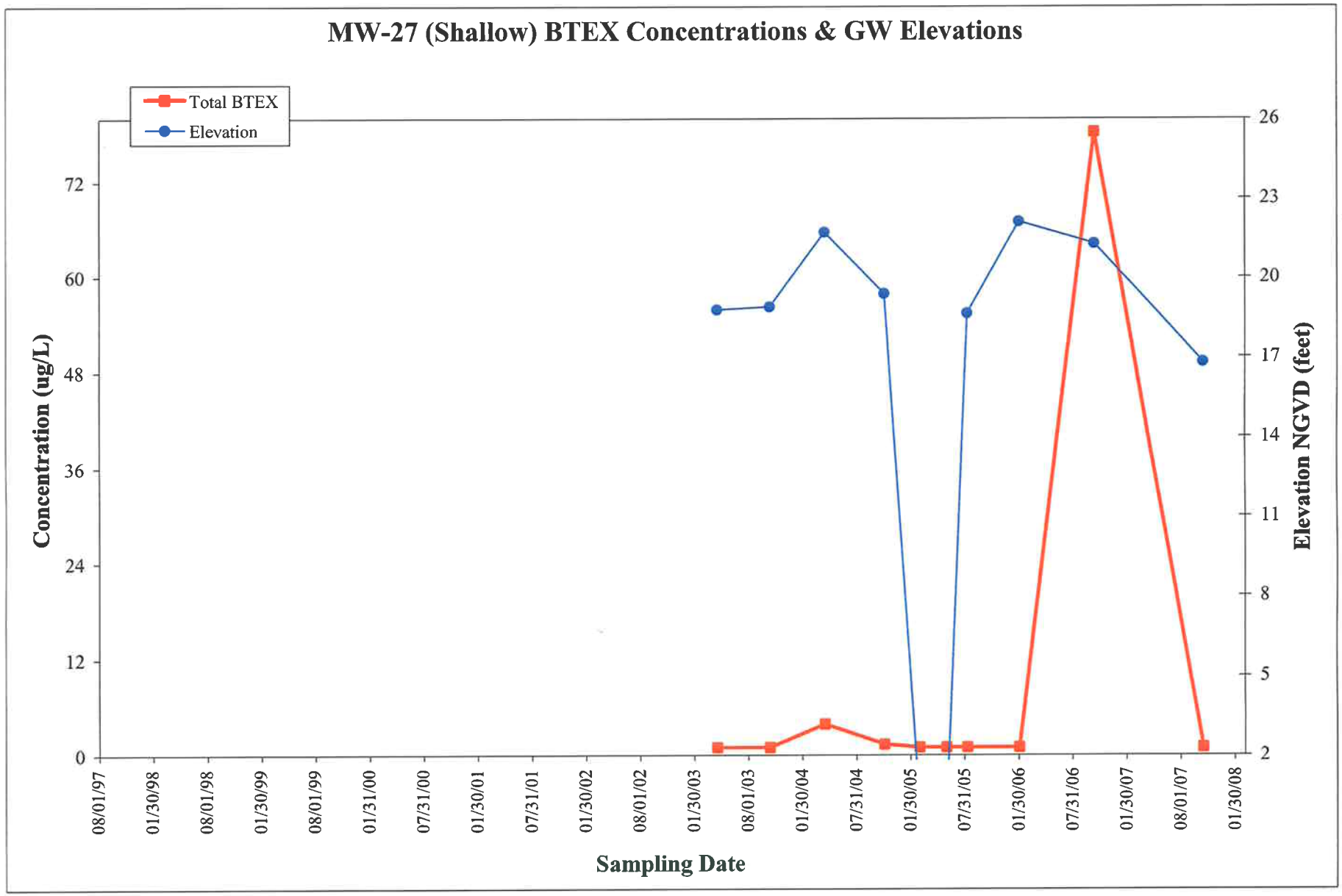

MW-15 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
2
4
6
8
10
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
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08/01/07
01/30/08

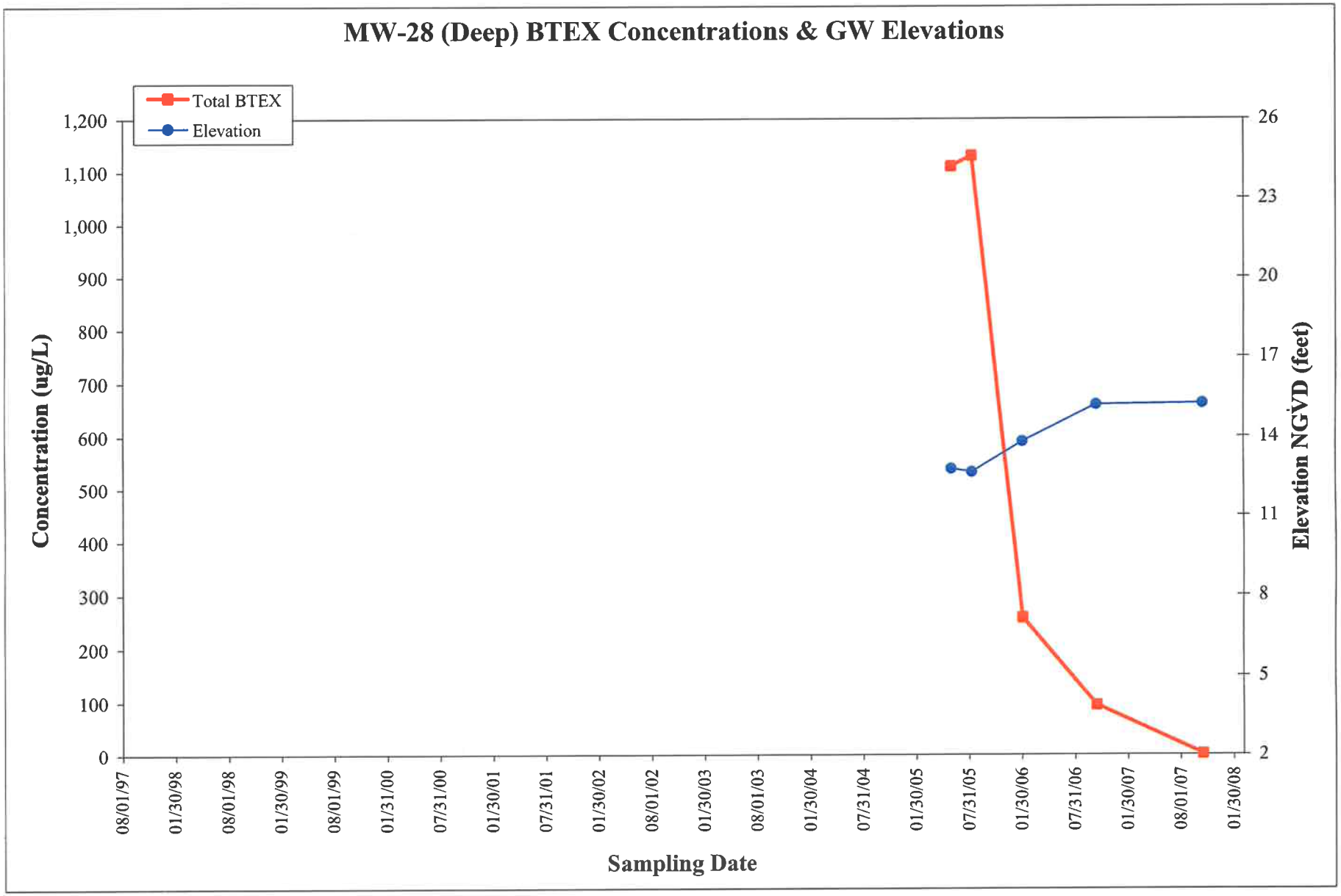

MW-16 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
10
20
30
40
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
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08/01/07
01/30/08

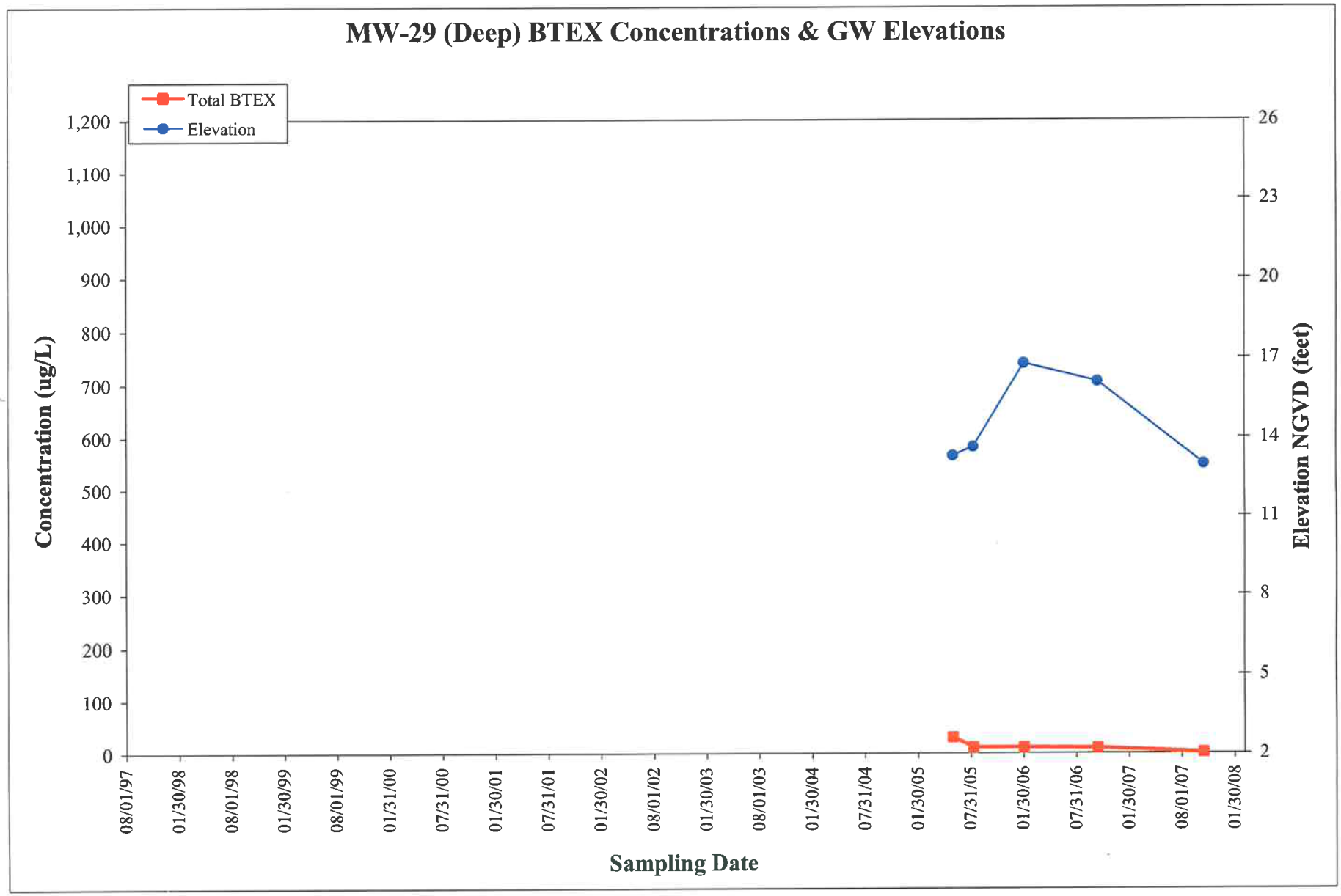

MW-17 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
100
200
300
400
500
600
700
800
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08


MW-19 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
12
24
36
48
60
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08


MW-26 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
100
200
300
400
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08


MW-27 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
0
12
24
36
48
60
72
Elevation NGVD (feet)
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08
Sampling Date


MW-28 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
Elevation NGVD (feet)
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08
Sampling Date


MW-29 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
Elevation NGVD (feet)
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
07/31/06
01/30/07
08/01/07
01/30/08
Sampling Date