FINAL
UST TT-2457/2475 CLOSURE REPORT
TARAWA TERRACE BUILDINGS TT-2457, TT-2459, TT-2461, TT-2463, TT-2465, TT-2467, TT-2469, TT-2471 AND TT-2475
FUEL OIL USTS
MARINE CORPS BASE, CAMP LEJEUNE
ONSLOW COUNTY, NORTH CAROLINA

Prepared for:

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November 2004
Project No. 102463

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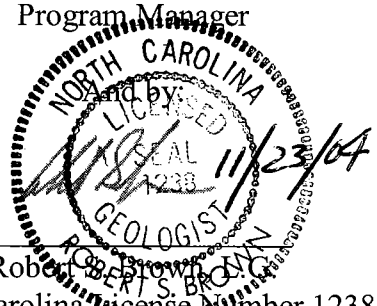
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November 2004
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EXECUTIVE SUMMARY

UST removal actions at the Tarawa Terrace Shopping Center were completed behind Buildings TT-2457, TT-2459, TT-2461, TT-2463, TT-2465, TT-2467/2469, TT-2471 and TT-2475.

The following work was accomplished at the site during March 2003:

- Excavation of 199.87 tons of non-hazardous TPH impacted soil from eight locations at the Tarawa Terrace Shopping Center.
- Removal of seven 550 gallon and two 1,000 gallon steel USTs from these locations.
- Collection of 2 initial confirmation samples from beneath USTs TT-2459-1, TT-2461-1, TT-2463-1, TT-2465-1, TT-2465-2 and TT-2471-1 for TPH-DRO and TPH-GRO analysis.
- Re-excavation at Buildings TT-2459, TT-2461, TT-2463, TT-2465, and TT-2471 and collection of 5 final confirmation samples for MADEP-EPH and MADEP-VPH analysis.
- Using a hand auger, collection of 5 final confirmation samples from the excavation at UST TT-2473-1 for MADEP-EPH and MADEP-VPH analysis.
- Collection of 1 confirmation sample from each of the locations for VOCs Method 8260 and SVOCs Method 8270 analysis.
- Collection of one composite soil sample for Toxicity Characteristic Leaching Procedure analysis for disposal purposes.
- Collection of one composite concrete sample for Toxicity Characteristic Leaching Procedure analysis for disposal purposes.
- Restoration of each site by backfilling, compacting, grading and placement of a concrete sidewalk.
- Transportation to and disposal of soil and concrete from inside the USTs at an in-State petroleum permitted disposal facility.
- Transportation and disposal of the former UST steel tanks at J&E Salvage Company, a local steel recycler.

During soil removal activities minor staining and a slight petroleum hydrocarbon odor was observed next to each UST. All of this soil was removed during UST removal activities. Based on depths to groundwater measurements in monitoring wells on site, groundwater occurs at a depth of 11-12 feet bls. All excavations removed soil to a total depth of 8-feet bls.

Soil samples did not detect contaminants in excess of North Carolina's Industrial or Residential Maximum Soil Contaminant Concentrations in soils for VOCs, and SVOCs. However, the MADEP EPH/VPH C_9-C_{22} Aromatics hydrocarbon range analytical results exceeded the Residential MSCC in at least one sample from TT-2459, TT-2461, TT-2463, TT-2465, TT-2469 and TT-2471.

For disposal purposes, a sample from the excavated soils and concrete removed from the USTs was analyzed for full TCLP analyses, TPH-GRO, TPH-DRO, and general chemical analysis. Results from these analyses met the allowable State disposal levels. The soils were disposed at ES&J Enterprise, Inc. located in Autryville, North Carolina. Soil disposal manifests are provided in *Appendix E.*

At the conclusion of UST removal activities each area was restored to original condition by replacing the concrete sidewalk and asphalt pavement. This cover will act as a cap to prevent rainwater from infiltrating to the soil as well as prevent direct exposure to contaminated soil. Based on the results of the soil confirmation samples collected from the former UST excavations, all soil contamination was removed from the excavations at TT-2457 and TT-2475, and we recommend that no further action with respect to the USTs be required at these locations. Because of the close proximity of residential housing to the Camp Lejeune Tarawa Terrace Shopping Center, the shopping center may require cleanup to residential MSCCs. Therefore, additional assessment and remediation may be required at Buildings TT-2459, TT-2461, TT-2463, TT-2465, TT-2467/2469, and TT-2471.

1.0 GENERAL INFORMATION

1.1 Site Location

The Tarawa Terrace shopping center consists of Buildings TT-2457 through TT-2475. The shopping center is located at the northwest corner of the intersection of Tarawa Boulevard and Iwo Jima Boulevard in the Tarawa Terrace residential area of Camp Lejeune. The shopping center consists of single story brick buildings that face the intersection. Most of the area between the building and the street is paved. A residential neighborhood is located behind the shopping center. The USTs contained heating fuel for the respective buildings. The USTs were abandoned in place by filling with grout in the early 1990's.

Figures 1.1 and *1.2* present a Camp Lejeune Site Location Map and a Vicinity Map (Camp Lejeune 7.5 Minute Quadrangle), respectively. A site map showing the former USTs location and other pertinent site features is presented in *Figure 1.3*.

1.2 NCDENR Notification Forms and UST Removal Permits

Removal of the USTs, which had been abandoned in place in the early 1990's, was discussed in a meeting between the Navy and NCDENR on May 5, 2004 prior to removal activities, therefore a Notification of Intent form (GW/UST-3) to remove the UST was not submitted to the NCDENR, Wilmington Regional Office by the Marine Corp Base. Shaw secured all necessary local UST removal permits prior to removal. The Base Fire Marshal's office was notified of the closure activities. A representative from the Base Fire Marshal's office was in attendance at the beginning of removal operations and granted permission to remove the USTs following a site inspection.

1.3 UST System and Miscellaneous Underground Piping

The USTs located at Buildings TT-2459, TT-2461, TT-2463, TT-2467, TT-2469, and TT-2471 consisted of one 550-gallon steel fuel oil tank. Building TT-2465 had two 550-gallon steel fuel oil tanks, and Buildings TT-2457 and TT-2475 had one 1,000 gallon fuel oil UST each. All piping associated with each UST (with the exception of Building TT-2465) had been removed during previous abandonment activities. The USTs were covered with a combination of a concrete sidewalk and asphalt paved parking area.

The USTs located at Building TT-2465 had not been abandoned in place (i.e., they were not filled with grout). There was approximately 10 feet of piping associated with each UST. The piping was located within the excavation limits, and was removed during UST removal activities.

During UST removal activities some soil staining and hydrocarbon odors were noted. When the soil was screened with an Organic Vapor Analyzer equipped with a Flame Ionization Detector (OVA-FID), readings from less than 10 ppm to several thousand ppm were observed.

1.4 Facility Information

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

Name:	Tarawa Terrace Shopping Center, Buildings TT-2457, TT-2459, TT-2461, TT-2463, TT-2465, TT-2467, TT-2469, TT-2471, and TT-2475
UST Location	Corner of Iwo Jima Drive & Tarawa Boulevard Onslow County Camp Lejeune, N.C. 28542
UST Owner:	Commanding General, MCB I & E/EMD, MCB PSC Box 20004 Onslow County Camp Lejeune, NC 28542
UST Information:	TT-2457-1 Tank Number – C-470680 Installation Date - Circa 1952 Tank Capacity – 1,000 gallons Tank Dimensions - 4.5 feet diameter by 10 feet long Last Contents - Fuel Oil Previous Contents - Fuel Oil TT-2459-1 Tank Number – C-470003 Installation Date - Circa 1952 Tank Capacity - 550 gallons Tank Dimensions - 3.5 feet diameter by 8 feet long Last Contents - Fuel Oil Previous Contents - Fuel Oil

TT-2461-1 Tank Number – C-470676
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2463-1 Tank Number – unknown
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2465-1 Tank Number – C-470620
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2465-2 Tank Number – C-470640
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2467-1 Tank Number – unknown
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2469-1 Tank Number – unknown
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions - 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2471-1 Tank Number – C-470618
Installation Date - Circa 1952
Tank Capacity - 550 gallons
Tank Dimensions – 3.5 feet diameter by 8 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

TT-2475-1 Tank Number – C-470621
Installation Date - Circa 1952
Tank Capacity – 1,000 gallons
Tank Dimensions – 4.5 feet diameter by 10 feet long
Last Contents - Fuel Oil
Previous Contents - Fuel Oil

1.5 Facility Contacts

Information regarding the responsible party, as well as, the names, addresses, and phone numbers of the primary contacts, the UST excavation subcontractor, the primary consultant, and the analytical laboratory are as follows:

Primary Responsible Party Contact:
Ms. Nikki Hall
Mr. Bruce Markwick
I & E/EMD, MCB
PSC Box 20004
Camp Lejeune, NC 28542
(910)451-9610

Closure Contractor & Primary Consultant
Mr. Ron Kenyon
Shaw Environmental, Inc
11560 Great Oaks Way
Suite 500
Alpharetta, Georgia 30022
(770)475-8994

UST Excavation Contractor:
Shaw Environmental, Inc.
11560 Great Oaks Way, Suite 500
Alpharetta, Georgia 30022
(770)475-8994

Laboratory:
Accutest Laboratories SE, Inc.
4405 Vineland Road, Suite C15
Orlando, Fl 32811-7363
(407)425-6700
Heather Wandrey, Project Manager
N.C. Certification No. 573

1.6 Site Characteristics

1.6.1 Camp Lejeune Marine Base Location and Description

Located in Onslow County, North Carolina, MCB Camp Lejeune is a training base for the United States Marine Corps. The base covers approximately 236 square miles (153,000 acres) and includes 14 miles of coastline. MCB Camp Lejeune is bounded 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 base (*Figure 1.2).*

1.6.2 Topographic and Hydrogeologic Setting

The following sections briefly discuss the site topography and hydrogeologic setting.

Topography

The project area is dominated by relatively flat topography gently sloping to the south and southwest toward Northeast Creek. Much of the area immediately surrounding the Tarawa Terrace shopping center consists of asphalt parking lot with minor curb-island grassed areas. The nearest mapped body of surface water is Northeast Creek, located approximately 1,000 feet 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.

Regional Geology and Hydrogeology

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.

Groundwater Occurrence and Flow

The groundwater aquifer is classified as GA groundwaters according to the NCAC Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. Depth to groundwater ranges from 11 to 12 feet bls in shallow Type II monitoring wells. In general the direction of groundwater flow at the site is to the south. The nearest water supply well (#704) is located approximately 7,000 feet east-southeast from the site.

2.0 UST CLOSURE PROCEDURES

Shaw Environmental, Inc. (Shaw) was contracted to provide closure services for UST removal activities at the Camp Lejeune Tarawa Terrace Shopping Center. The USTs were located behind Buildings TT-2457, TT-2459, TT-2461, TT-2463, TT-2465, TT-2467, TT-2469, TT-2471 and TT-2475. With the exception of the two USTs behind Building TT-2465, the USTs had been abandoned in place (filled with concrete grout) by another contractor in the early 1990's. The Base Fire Marshal representative was contacted prior to removal operations and was in attendance at the beginning of field operations. Photographs of UST removal activities are provided in *Appendix H.*

Equipment and personnel currently working at Camp Lejeune performed this remedial project. The initial site preparation activities included:

- Acquiring dig permits and proper safety forms.
- Examining each site to determine access to the proposed excavation area.
- Delineation of each job site perimeter and work zones.
- Location of all utilities within the project area.
- Placement of a mini-excavator into the excavation area.
- Designating a soil staging area.
- Placement of temporary fence/barricades surrounding each work area.
- Procurement of required equipment and materials.

A local utility locator, contracted by Shaw, identified and marked known utilities within each work zone.

Shaw removed the 550 gallon USTs using a track mounted mini excavator and rubber tired loader, and the 1,000 gallon USTs using a 50 ton crane in May 2004. Groundwater was not encountered during removal operations. The depth from land surface to the top of the tanks ranged from 2 to 3 feet below land surface (bls). In general, the top 4-feet of soil consisted of sand and clay with the lower 4-feet consisting predominantly of sandy clay. Based on depth to groundwater measurements from monitoring wells on site, groundwater occurs at a depth of approximately 11 to 12 feet bls. Minor staining of soil was observed adjacent to the tanks. All of this soil was removed during UST removal activities.

All excavated soil was staged on plastic (covered at the end of each construction day), on the paved parking area in front of the Tarawa Terrace Shopping Center. The soil was disposed at

ES&J Enterprises, Inc., an in-state Non-Hazardous RCRA Subtitle D disposal facility, located in Autryville, North Carolina. Soil disposal manifests are provided in *Appendix E.*

Following removal, the outside of each UST was cleaned of excess soil and inspected for corrosion or damage. All the tanks were badly pitted with holes up to golf ball size in both the upper and lower half of the tanks. The inside of each UST was inerted using dry ice, tested with an O_2/LEL meter and OVA-FID to ensure it was safe to cut the tank. The tanks were then cut in half, the concrete inside the UST was removed, the inside was cleaned and the tank was then crushed.

Due to the close proximity of the excavations to the existing buildings additional excavation activities were not completed. At the conclusion of UST removal activities each area was restored to original condition by replacing the concrete sidewalk and asphalt pavement. This cover will act as a cap to prevent rainwater from infiltrating to the soil as well as prevent direct exposure to contaminated soil.

The USTs were disposed at J&E Salvage, a steel recycler located in Jacksonville, North Carolina. The concrete from inside the USTs was disposed as non-hazardous construction debris at Waste Industries Sampson County Landfill located in Sampson County, North Carolina. A copy of the concrete disposal manifests are provided in *Appendix E.* A completed GW/UST-2 Form (Site Investigation Report for Permanent Closure or Change in Service of UST) for each of the buildings is provided in *Appendix B.* The excavated area was back-filled with clean soil purchased from Morton Trucking.

During each UST excavation and removal, routine air monitoring in the breathing zone was performed during excavation activities using an OVA-FID to monitor for the presence of volatile hydrocarbons. No readings were detected above the ambient level of 0.0 parts per million (ppm) at any of the UST locations; therefore no upgrade in protective equipment was required.

2.1 Building TT-2457 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged from 10 ppm to 123 ppm. The UST (TT-2457-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 14 ft x 10 ft to a depth of 8 feet bls. Approximately 34 cy of soil was removed from the excavation. *Figure 2.1* presents a site map for the UST removal activities at Building TT-2457.

The UST was a 1,000 gallon capacity, 10-feet long by 4.5 feet diameter, single walled steel tank. Following removal of the UST, a confirmation soil sample was collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation (approximately 8-feet bls). The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential Maximum Soil Contaminant Concentration (MSCC) action levels for VOCs, SVOCs and MADEP EPH/VPH.

2.2 Building TT-2459 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged up to 20 ppm. The UST (TT-2459-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 13 ft x 7 ft to a depth of 6 feet bls. Approximately 17 cy of soil was removed from the excavation. *Figure 2.2* presents a site map for the UST removal activities at Building TT-2459.

The UST was a 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tank. Following removal of the UST, two floor soil samples were collected from the bottom of the excavation (approximately 6-feet bls) at each end of the UST. The samples were analyzed for TPH-DRO and TPH-GRO. Because analytical results exceeded 10 mg/kg, an additional 2 feet of soil (approximately 7 cy) was removed from the bottom of the excavation (8-feet total depth). A confirmation soil sample was then collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation. The samples were analyzed for MADEP EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.3 Building TT-2461 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged from 37 ppm to 415 ppm. The UST (TT-2461-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was

approximately 10 ft x 7 ft to a depth of 6 feet bls. Approximately 12 cy of soil was removed from the excavation. *Figure 2.3* presents a site map for the UST removal activities at Building TT-2461.

The UST was a 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tank. Following removal of the UST, two floor soil samples were collected from the bottom of the excavation (approximately 6-feet bls) at each end of the UST. The samples were analyzed for TPH-DRO and TPH-GRO. Because analytical results exceeded 10 mg/kg, an additional 2 feet of soil (approximately 5 cy) was removed from the bottom of the excavation (8-feet total depth). A confirmation soil sample was then collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation. The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.4 Building TT-2463 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged up to 31 ppm. The UST (TT-2463-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 13 ft x 8 ft to a depth of 6 feet bls. Approximately 20 cy of soil was removed from the excavation. *Figure 2.4* presents a site map for the UST removal activities at Building TT-2463.

The UST was a 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tank. Following removal of the UST, two floor soil samples were collected from the bottom of the excavation (approximately 6-feet bls) at each end of the UST. The samples were analyzed for TPH-DRO and TPH-GRO. Because analytical results exceeded 10 mg/kg, an additional 2 feet of soil (approximately 8 cy) was removed from the bottom of the excavation (8-feet total depth). A confirmation soil sample was then collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation. The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.5 Building TT-2465 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged from 10 ppm to 2,490 ppm. The two tanks (TT-2465-1 and TT-2465-2) had not been filled with concrete and were approximately 60% full of water. A petroleum sheen was visible on the surface of the water in the USTs. Prior to UST removal, the water was removed from the tanks using a vacuum truck. The water was disposed at the North Plant water treatment plant. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 15 ft x 12 ft to a depth of 6 feet bls. Approximately 34 cy of soil was removed from the excavation. *Figure 2.5* presents a site map for the UST removal activities at Building TT-2465.

Each of the USTs was 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tanks. Following removal of the USTs, two floor soil samples were collected from the bottom of the excavation (~6.5 feet bls) at each end of the USTs. The samples were analyzed for TPH-DRO and TPH-GRO. Because analytical results exceeded 10 mg/kg, an additional 2 feet of soil (approximately 13 cy) was removed from the bottom of the excavation (8-feet total depth). A confirmation soil sample was then collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation. The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.6 Building TT-2467 and TT-2469 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged from 10 ppm to 1,150 ppm. The two tanks (TT-2467-1 and TT-2469-2) were installed within 5-feet of each other so they were combined into one excavation. The USTs had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 15 ft x 11 ft to a depth of 8 feet bls. Approximately 39 cy of soil was removed from the excavation. *Figure 2.6* presents a site map for the UST removal activities at Buildings TT-2467 and TT-2469.

Each of the USTs was 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tanks. Following removal of the USTs, a confirmation soil sample was then collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation. The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.7 Building TT-2471 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged up to 6 ppm. The UST (TT-2471-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 11 ft x 6 ft to a depth of 6 feet bls. Approximately 11 cy of soil was removed from the excavation. *Figure 2.7* presents a site map for the UST removal activities at Building TT-2471.

The UST was a 550 gallon capacity, 8-feet long by 3.5 feet diameter, single walled steel tank. Due to the presence of a terra cotta sewer line located within 2-feet of the UST, the excavation had to be backfilled immediately to prevent sidewall caving that would damage the sewer line. Therefore, confirmation soil samples from the sidewall and floor were not collected when the excavation was open.

Because of this condition, soil samples were collected using a hand auger following backfilling of the excavation. Soil samples were collected from the bottom of the excavation (approximately 6-feet bls) and from a location approximately 0.5 feet outside the sides of the excavation. The side samples were collected from an approximate depth of 6-feet bls. The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.8 Building TT-2473 UST Removal

The existence of a UST behind Building TT-2473 could not be confirmed because of the presence of a small two room brick structure that currently occupies the rear of the building. Attempts to locate the UST near or under the structure including limited excavation, hand

digging and hand probing did not identify the existence of an UST. *Figure 2.8* presents a site map of the rear of Building TT-2473.

2.9 Building TT-2475 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged up to 30 ppm. The UST (TT-2475-1) had been filled with concrete. Excavated soil was staged on plastic and stockpiled on a paved area in front of the Tarawa Terrace Shopping Center. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The excavation area was approximately 11 ft x 10 ft to a depth of 8 feet bls. Approximately 25 cy of soil was removed from the excavation. *Figure 2.9* presents a site map for the UST removal activities at Building TT-2475.

The UST was a 1,000 gallon capacity, 10-feet long by 4.5 feet diameter, single walled steel tank. Following removal of the UST, a confirmation soil sample was collected from each sidewall (approximately 4-feet bls) and the bottom of the excavation (approximately 8-feet bls). The samples were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from the excavation was also analyzed for VOCs (Method 8260) and SVOCs (Method 8270). The remedial objectives were based on soil contaminant concentrations that exceeded the State Residential MSCC action levels for VOCs, SVOCs and MADEP-EPH/VPH.

2.10 Non-hazardous Soil and Concrete Disposal Sampling and Analysis

A composite sample from the stockpiled soil and concrete was collected May 21, 2004 for disposal characterization analysis. The samples were analyzed for VOC TCLP, SVOC TCLP, pesticide TCLP, herbicide TCLP, and eight RCRA metals TCLP, reactivity, corrosivity and ignitability analyses in accordance with requirements of the disposal facility.

3.0 POST EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS

The following sections discuss analytical results of the post excavation confirmation soil samples collected from each excavation.

3.1 North Carolina Regulatory Standards

The remedial action cleanup criteria for the Tarawa Terrace Shopping Center soils were based on the NCDENR Maximum Soil Contaminant Concentrations for Industrial Soil Cleanup Levels dated April 2001.

3.2 Confirmation Sampling

Following initial excavation activities, confirmation soil samples were collected from the former UST excavations at Buildings TT-2459, TT-2461, TT-2463, TT-2465, and TT-2471 and sent to an off-site laboratory for TPH-DRO and TPH-GRO analysis. Based on elevated OVA-FID field measurements and consistent analytical results greater than 10 mg/kg at Buildings TT-2459, TT-2461, TT-2463, TT-2465 and TT-2471 soil samples were not collected for TPH-DRO and TPH-GRO analysis from the former UST excavations at Buildings TT-2457, TT-2467, TT-2469 and TT-2473.

When analytical results exceeded 10 mg/kg, additional soil removal was completed and an additional set of confirmation samples were collected. These final confirmation soil samples, as well as the final samples from Buildings TT-2457, TT-2467, TT-2469 and TT-2473, were analyzed for MADEP-EPH/VPH. In addition, the soil sample with the highest OVA-FID reading from each excavation was analyzed for VOCs using EPA Method 8260B, and SVOCs using EPA Method 8270 according to the Sampling and Analysis Plan, *Appendix B of the Final Work Plan for Tarawa Terrace Buildings TT-2463/2473 UST Removals,* dated April 2004. The following sections present analytical results from each of the excavations.

3.2.1 Building TT-2457

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2457-F-001. The concentrations of these constituents were, however, below North Carolina's Industrial, Residential and Soil to Groundwater Maximum Soil Contaminant Concentrations (MSCCs). *Table 3.1A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected at very low concentrations in soil samples 2457-F-001, 2457-NW-002 and 2457-EW-003. The concentrations of these constituents were, however, below North Carolina's Residential MSCCs.

Table 3.1B presents MADEP-EPH/VPH analytical results. The confirmation soil sample analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.1*.

3.2.2 Building TT-2459

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations above 10 mg/kg in soil samples 2459-NB-001 (800 mg/kg, TPH-DRO; 31 mg/kg, TPH-GRO) and 2459-SB-002 (3,280 mg/kg, TPH-DRO; and 74.8 mg/kg TPH-GRO). *Table 3.0* presents TPH-GRO/DRO analytical results. It should be noted that this soil was removed when an additional 2-feet of soil was removed during over-excavation activities.

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2459-F-001. The concentrations of these constituents were, however, below North Carolina's Residential MSCCs. *Table 3.2A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all five soil samples collected. The concentrations of these constituents were below North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2459-F-001 (2,203 mg/kg) and 2459-WW-004 (1,305 mg/kg). *Table 3.2B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.2*.

3.2.3 Building TT-2461

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations above 10 mg/kg in soil samples 2461-NB-001 (1,520 mg/kg, TPH-DRO; 88.8 mg/kg, TPH-GRO) and 2461-SB-002 (837 mg/kg, TPH-DRO; and 63.4 mg/kg TPH-GRO). *Table 3.0* presents TPH-GRO/DRO analytical results. It should be noted that this soil was removed when an additional 2-feet of soil was removed during over-excavation activities.

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample F2461-F-001. The concentrations of these constituents were, however, below North Carolina's Residential MSCCs. *Table 3.3A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all five soil samples collected. The concentrations of these constituents were below North Carolina's

Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2461-F-001 (2,609 mg/kg). *Table 3.2B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.3*.

3.2.4 Building TT-2463

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations above 10 mg/kg in soil samples 2463-NB-001 (5,230 mg/kg, TPH-DRO; 229 mg/kg, TPH-GRO) and 2463-SB-002 (5,680 mg/kg, TPH-DRO; and 116 mg/kg TPH-GRO). *Table 3.0* presents TPH-GRO/DRO analytical results. It should be noted that this soil was removed when an additional 2-feet of soil was removed during over-excavation activities.

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2463-F-001. The concentrations of these constituents were, however, below North Carolina's Residential MSCCs. *Table 3.4A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all soil samples collected with the exception of sample 2463-SW-005. The concentrations of these constituents were below North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2463-F-001 (1,744 mg/kg), 2463-NW-002 (1,343 mg/kg) and 2463-EW-003 (696.2 mg/kg). *Table 3.4B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.4*.

3.2.5 Building TT-2465

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations above 10 mg/kg in soil samples 2465-WTN-001 (11,500 mg/kg, TPH-DRO; 497 mg/kg, TPH-GRO) and 2465-WTS-002 (12,400 mg/kg, TPH-DRO; and 557 mg/kg TPH-GRO), 2465-ETN-003 (3,590 mg/kg, TPH-DRO; and 231 mg/kg TPH-GRO), and2465-ETS-004 (6,570 mg/kg, TPH-DRO; and 386 mg/kg TPH-GRO). *Table 3.0* presents TPH-GRO/DRO analytical results. It should be noted that this soil was removed when an additional 2-feet of soil was removed during over-excavation activities.

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2465-F-001. The concentrations of these constituents were,

however, below North Carolina's Residential MSCCs. *Table 3.5A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all five soil samples collected. The concentrations of these constituents were below North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2465-F-001 (1,090 mg/kg), 2465-NW-002 (782 mg/kg), 2465-EW-003 (526 mg/kg) and 2465-SW-005 (1,022 mg/kg). *Table 3.5B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G.* The soil analytical results are presented in *Figure 2.5.*

3.2.6 Buildings TT-2467 and TT-2469

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2467-F-002. The concentrations of these constituents were, however, below North Carolina's Industrial and Residential MSCCs. *Table 3.6A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all five soil samples collected. The concentrations of these constituents were below North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2467-F-002 (1,400 mg/kg), 2469-F-001 (2,116 mg/kg), 2469-EW-004 (751.6 mg/kg), 2469-WW-005 (584 mg/kg), and 2469-SW-006 (3,146 mg/kg). *Table 3.6B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G.* The soil analytical results are presented in *Figure 2.6.*

3.2.7 Building TT-2471

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations above 10 mg/kg in soil samples 2471-NB-001 (7,710 mg/kg, TPH-DRO; 70.9 mg/kg, TPH-GRO) and 2471-SB-002 (65.4 mg/kg, TPH-DRO). *Table 3.0* presents TPH-GRO/DRO analytical results. It should be noted that this soil was removed when an additional 2-feet of soil was removed during over-excavation activities.

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2471-WW-004. The concentrations of these constituents were, however, below North Carolina's Residential and Soil-to-Groundwater MSCCs. *Table 3.7A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected in all the soil samples collected with the exception of 2471-F-001. The concentrations of these constituents were below North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at sample 2471-EW-003 (843 mg/kg) and 2471-SW-005 (1,135 mg/kg). *Table 3.7B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.7*.

3.2.8 Building TT-2473

The existence of a UST behind Building TT-2473 could not be confirmed because of the presence of a small two room brick structure that currently occupies the rear of the building. Attempts to locate the UST near or under the structure including limited excavation, hand digging and hand probing did not identify the existence of an UST. *Figure 2.8* presents a site map showing the presumed location of the UST in relation to the existing building at the rear of Building TT-2473.

3.2.9 Building TT-2475

Analytical results indicated that some VOC and SVOC constituents were detected at very low concentrations in soil sample 2475-F-001. The concentrations of these constituents were, however, below North Carolina's Residential and Soil-to-Groundwater MSCCs. *Table 3.8A* presents VOC and SVOC analytical results.

Analytical results indicated that some MADEP-EPH/VPH carbon ranges were detected at very low concentrations in one soil sample (2475-SW-005) collected. The concentrations of these constituents were, however, below North Carolina's Residential and Soil-to-Groundwater MSCCs. *Table 3.8B* presents MADEP-EPH/VPH analytical results. The confirmation soil sample laboratory analytical reports are provided in *Appendix G*. The soil analytical results are presented in *Figure 2.9*.

3.2.10 Disposal Sampling Analytical Results

The contaminant concentrations for the composite soil sample and concrete sample were below laboratory detection limit for VOC TCLP, SVOC TCLP, pesticide TCLP, and herbicide TCLP analyses (*Table 3.10*). The soil TPH results for composite GRO and DRO analyses were 282 mg/kg and 12,200 mg/kg respectively. The concrete TPH results for composite GRO and DRO analyses were 22.9 mg/kg and 1,650 mg/kg respectively. The soil and concrete were determined to be non-hazardous. A total of 199.87 tons of soil was disposed of at ES&J Enterprises, Inc.

facility located in Autryville, North Carolina and approximately 44 tons of concrete was disposed at the Waste Industries Sampson County Landfill located in Sampson County, North Carolina. The non-hazardous waste shipping documents are provided in *Appendix E.* The laboratory analytical reports for TCLP results and TPH analyses are presented in *Appendix G.*

4.0 CONCLUSIONS AND RECOMMENDATIONS

During the month of May 2004 a total of 10 fuel oil USTs were removed from behind Buildings TT-2457, TT-2459, TT-2461, TT-2463, TT-2465 (2 USTs), TT-2467, TT-2469, TT-2471 and TT-2475 located at the Tarawa Terrace Shopping Center, Camp Lejeune, North Carolina. The USTs used to contain heating fuel for the respective buildings. Most of the USTs were abandoned in place by filling with grout in the early 1990's.

Minor staining of soil was observed adjacent to the tanks. However, all of this soil was removed during UST removal activities. Groundwater was not encountered during excavation activities. Based on depth to groundwater measurements from monitoring wells on site, groundwater occurs at a depth of approximately 11 to 12 feet bls.

Laboratory analysis completed on confirmation samples included the following analysis: MADEP-EPH, MADEP-VPH, TPH-GRO, TPH-DRO, VOCs using Method 8260B, and SVOCs using EPA Method 8270C. Analytical results are presented in *Tables 3.1 through 3.9* and summarized below.

- *MADEP-EPH Results*: Soil confirmation samples did not detect MADEP-EPH/VPH compounds above North Carolina's Residential MSCCs with the exception of the C_9-C_{22} Aromatics hydrocarbon range at the excavations at TT-2459, TT-2461, TT-2463, TT-2465, TT-2467/2469 and TT-2471. *Table 3.9* presents a summary table of MADEP-EPH/VPH analytical results.
- *TPH-GRO Results*: Soil confirmation samples detected TPH-GRO above North Carolina's Residential MSCCs in all samples collected. However, all of these soils were removed during excavation activities.
- *TPH-DRO Results*: Soil confirmation samples detected TPH-DRO above North Carolina's Residential MSCCs in all samples collected. However, all of these soils were removed during excavation activities.
- *VOCs using Method 8260B*: Soil confirmation samples did not detect VOC compounds above North Carolina's Residential MSCCs.
- *SVOCs Method 8270C Results*: Soil confirmation samples did not detect SVOCs above North Carolina's Residential MSCCs.

Based on the results of the soil confirmation samples collected from the former UST excavations, all soil contamination was removed from the excavations at TT-2457 and TT-2475, and we recommend that no further action with respect to the USTs be required at these locations. Because of the close proximity of residential housing to the Camp Lejeune Tarawa Terrace Shopping Center, the excavations with residential exceedances may require additional cleanup.

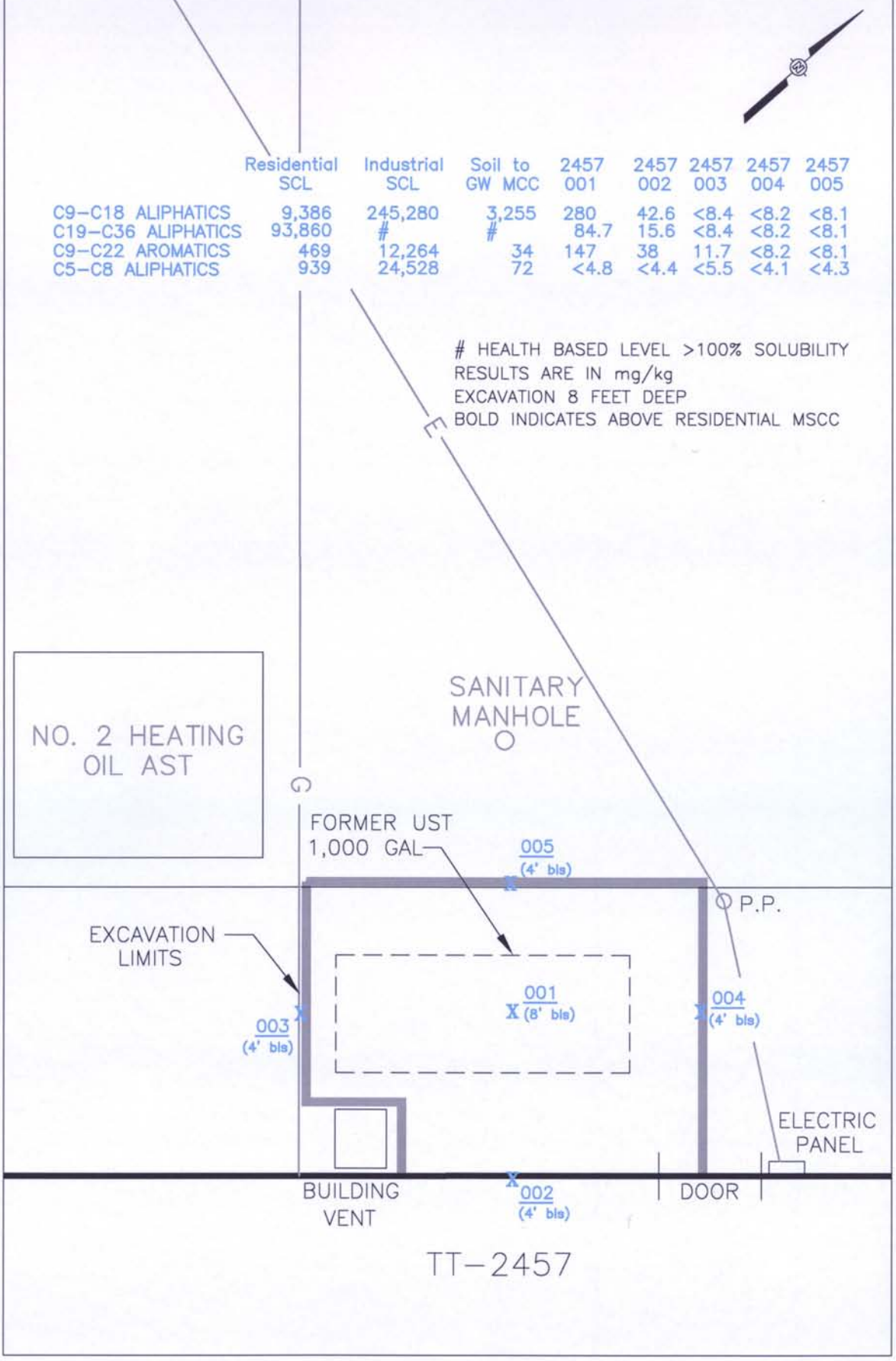
Those locations are at Buildings TT-2459, TT-2461, TT-2463, TT-2465, TT-2467/2469 and TT-2471. Note, however, that the concrete and asphalt cover will act as a cap to prevent rainwater from infiltrating to the soil as well as prevent direct exposure to contaminated soil.

FIGURES

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	Alpharetta, GA	102463-FIG2457-R

	Residential SCL	Industrial SCL	Soil to GW MCC	2457 001	2457 002	2457 003	2457 004	2457 005
C9-C18 ALIPHATICS	9,386	245,280	3,255	280	42.6	<8.4	<8.2	<8.1
C19-C36 ALIPHATICS	93,860	#	#	84.7	15.6	<8.4	<8.2	<8.1
C9-C22 AROMATICS	469	12,264	34	147	38	11.7	<8.2	<8.1
C5-C8 ALIPHATICS	939	24,528	72	<4.8	<4.4	<5.5	<4.1	<4.3

HEALTH BASED LEVEL >100% SOLUBILITY
RESULTS ARE IN mg/kg
EXCAVATION 8 FEET DEEP
BOLD INDICATES ABOVE RESIDENTIAL MSCC



SCALE
0 5 10 FEET

REVISIONS					
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
1	5/04	JEL	-	RK	UST REMOVAL

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NAVAL FLEET & INDUSTRIAL SUPPLY CENTER YORKTOWN, VIRGINIA

BUILDING TT-2457 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE: AS SHOWN
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CONSTR. CONTRACT NO. N62470-02-D-3260
NAVFAC DRAWING NO. ?
SHEET I.D. 2.1

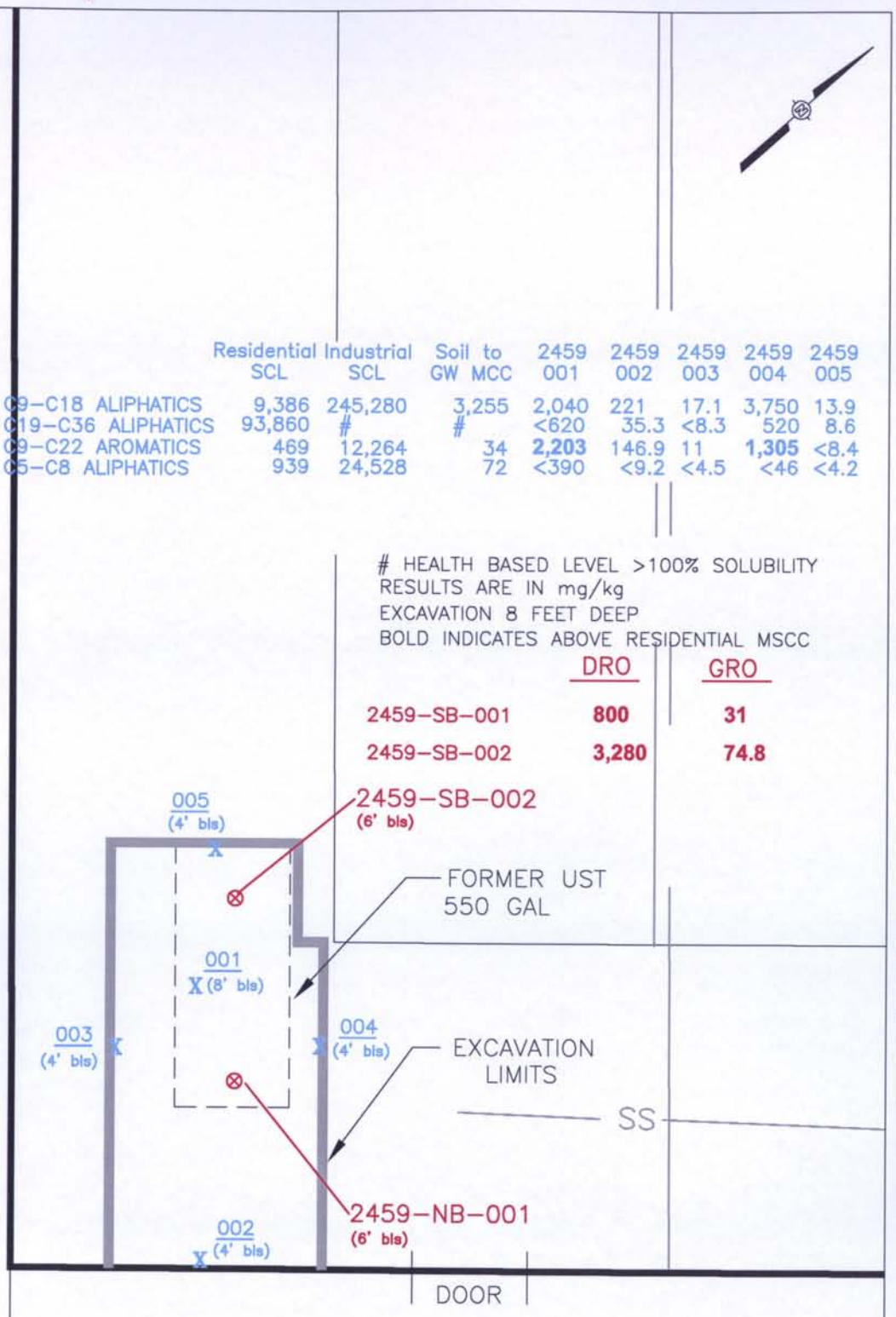
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FORMAT REVISION 2/09/04

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	Alpharetta, GA	102463-FIG2459-R

	Residential SCL	Industrial SCL	Soil to GW MCC	2459 001	2459 002	2459 003	2459 004	2459 005
C9-C18 ALIPHATICS	9,386	245,280	3,255	2,040	221	17.1	3,750	13.9
C19-C36 ALIPHATICS	93,860	#	#	<620	35.3	<8.3	520	8.6
C9-C22 AROMATICS	469	12,264	34	**2,203**	146.9	11	**1,305**	<8.4
C5-C8 ALIPHATICS	939	24,528	72	<390	<9.2	<4.5	<46	<4.2

HEALTH BASED LEVEL >100% SOLUBILITY
RESULTS ARE IN mg/kg
EXCAVATION 8 FEET DEEP
BOLD INDICATES ABOVE RESIDENTIAL MSCC

	DRO	GRO
2459-SB-001	**800**	**31**
2459-SB-002	**3,280**	**74.8**



SCALE
0 5 10 FEET

REVISIONS						
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE	
1	5/04	JEL	-	RK	UST REMOVAL	

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BUILDING TT-2459 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE: AS SHOWN	SIZE: A
DELIVERY ORDER NO. 005	
CONSTR. CONTRACT NO. N62470-02-D-3260	
NAVFAC DRAWING NO. ?	
SHEET I.D. 2.2	

PLOT DATE: ?/?/99
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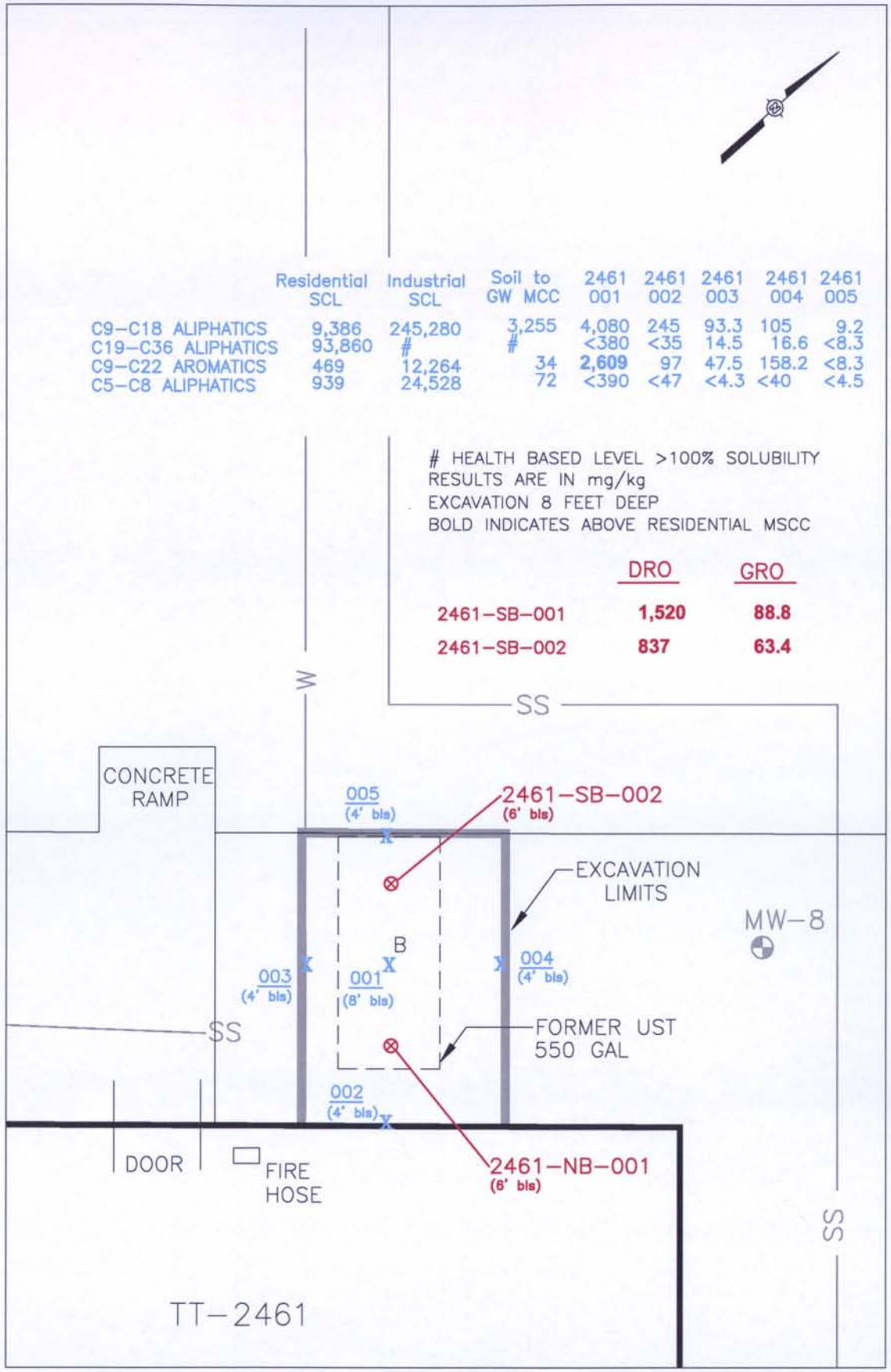


IMAGE	X-REF	OFFICE	DRAWING NUMBER
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REVISIONS					
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
1	5/04	JEL	–	RK	UST REMOVAL

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BUILDING TT–2461 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE:	SIZE:
AS SHOWN	A

DELIVERY ORDER NO. 005

CONSTR. CONTRACT NO. N62470–02–D–3260

NAVFAC DRAWING NO. ?

SHEET I.D. 2.3

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

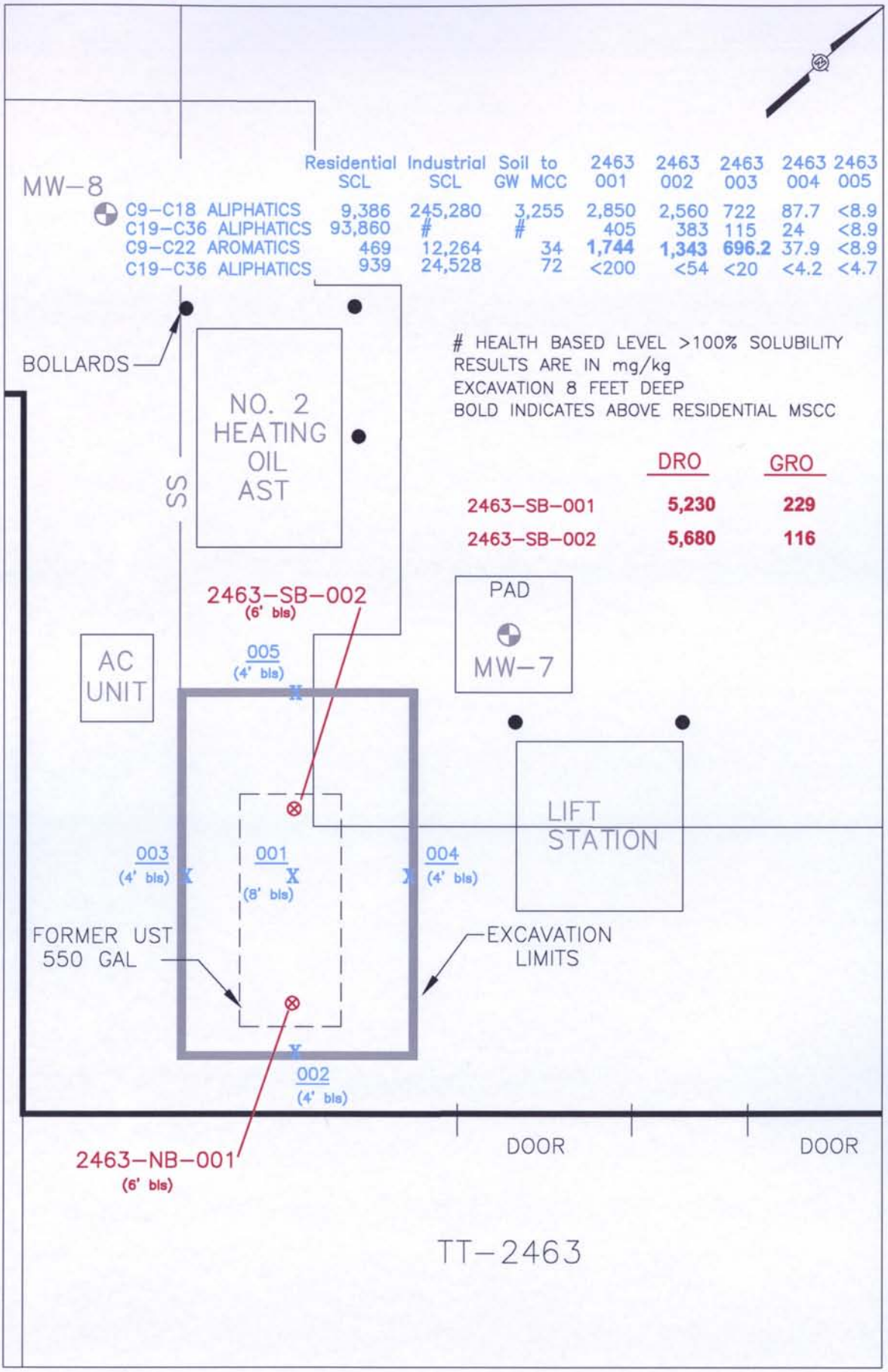


IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	Alpharetta, GA	102463-FIG2463-R

REV	DATE	BY	CHK'D	APP'VD	DESCRIPTION/ISSUE
1	5/04	JEL	-	RK	UST REMOVAL

REVISIONS

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NAVAL STATION
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER
YORKTOWN, VIRGINIA

BUILDING TT-2463 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE:	SIZE:
AS SHOWN	A

DELIVERY ORDER NO.
005

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

NAVFAC DRAWING NO.
?

SHEET I.D.
2.4

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

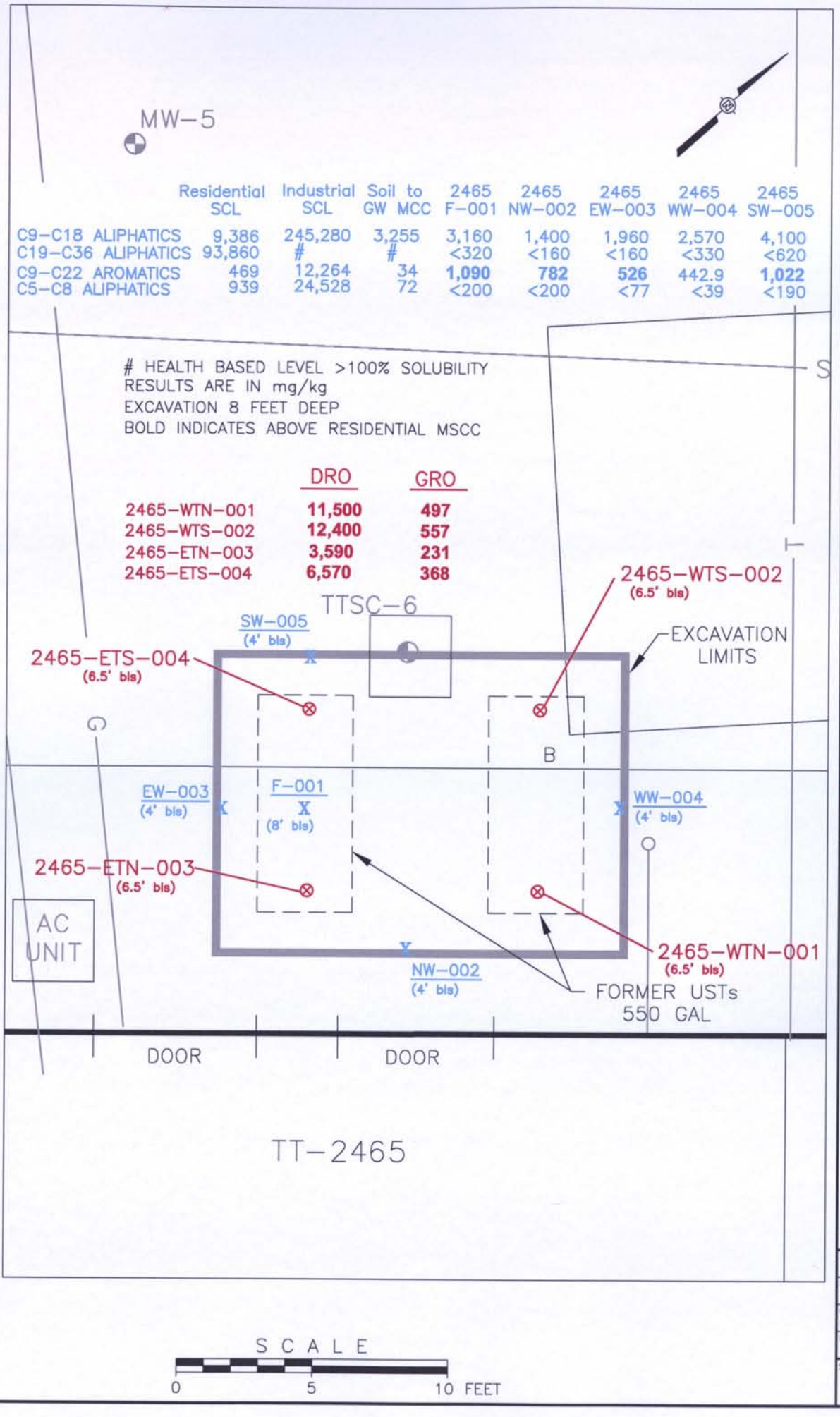


IMAGE ---
X-REF ---
OFFICE Alpharetta, GA
DRAWING NUMBER 102463-FIG2465-R

REVISIONS

REV	DATE	BY	CHK'D	APPV'D	DESCRIPTION/ISSUE
1	5/04	JEL	-	RK	UST REMOVAL

PROJECT NO. 102463

Shaw Environmental, Inc.

DESIGNED BY | CHECKED BY | APPROVED BY | DRAWN BY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL STATION ATLANTIC DIVISION NORFOLK, VIRGINIA
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER YORKTOWN, VIRGINIA

BUILDING TT-2465 SITE MAP

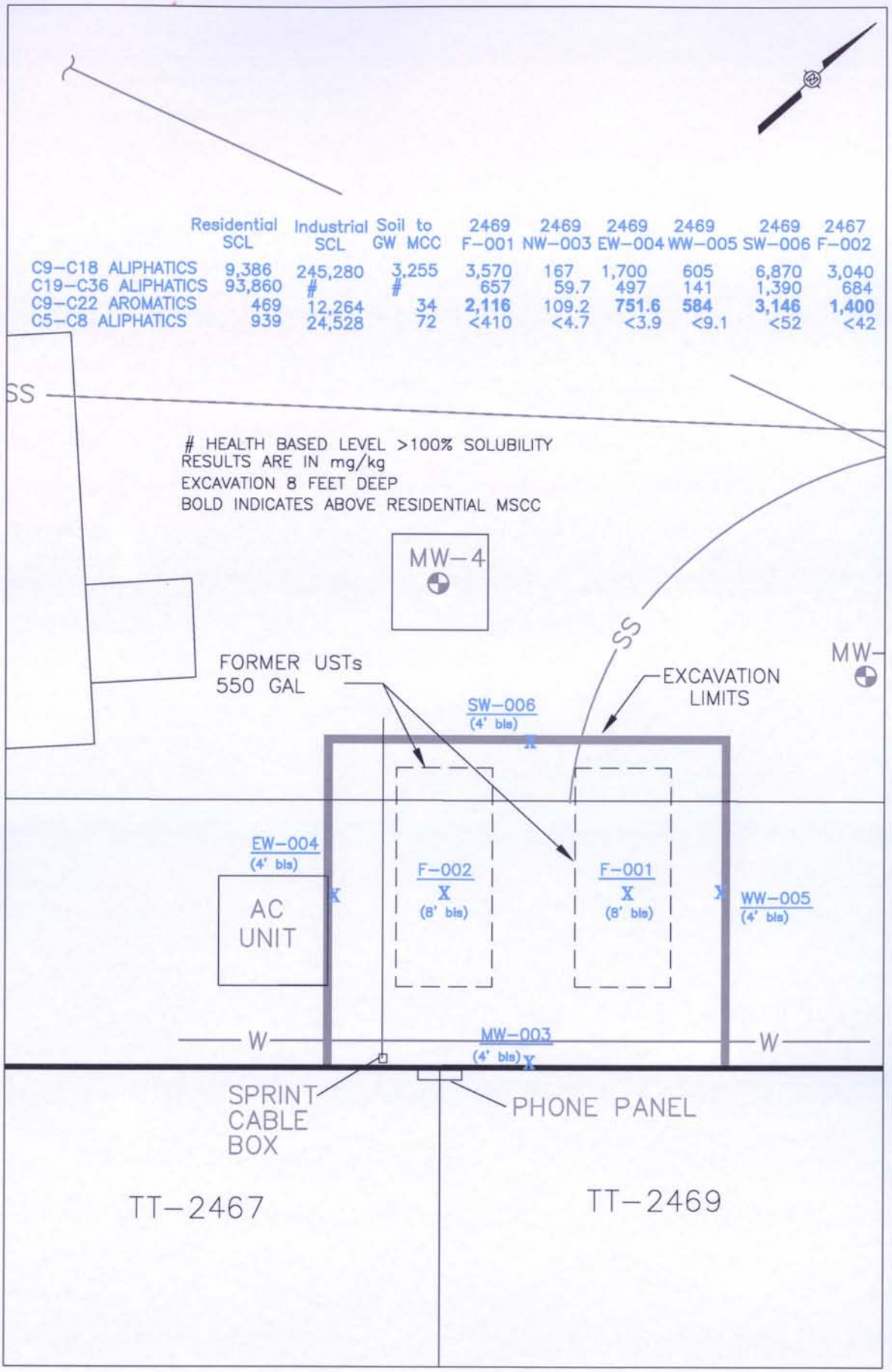
UST REMOVAL ANALYTICAL RESULTS

SCALE: AS SHOWN
SIZE: A
DELIVERY ORDER NO. 005
CONSTR. CONTRACT NO. N62470-02-D-3260
NAVFAC DRAWING NO. ?
SHEET I.D. 2.5

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

Residential SCL	Industrial SCL	Soil to GW MCC	2469 F-001	2469 NW-003	2469 EW-004	2469 WW-005	2469 SW-006	2467 F-002
C9-C18 ALIPHATICS	9,386	245,280	3,255	3,570	167	1,700	605	6,870	3,040
C19-C36 ALIPHATICS	93,860	#	#	657	59.7	497	141	1,390	684
C9-C22 AROMATICS	469	12,264	34	**2,116**	109.2	**751.6**	**584**	**3,146**	**1,400**
C5-C8 ALIPHATICS	939	24,528	72	<410	<4.7	<3.9	<9.1	<52	<42

HEALTH BASED LEVEL >100% SOLUBILITY
RESULTS ARE IN mg/kg
EXCAVATION 8 FEET DEEP
BOLD INDICATES ABOVE RESIDENTIAL MSCC



SCALE
0 5 10 FEET

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
1	5/04	JEL	-	RK	UST REMOVAL

REVISIONS

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NAVAL STATION ATLANTIC DIVISION NORFOLK, VIRGINIA
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER YORKTOWN, VIRGINIA

BUILDING TT-2469 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE: AS SHOWN
SIZE: A
DELIVERY ORDER NO. 005
CONSTR. CONTRACT NO. N62470-02-D-3260
NAVFAC DRAWING NO. ?
SHEET I.D. 2.6

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	Alpharetta, GA	102463-FIG2469-R

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

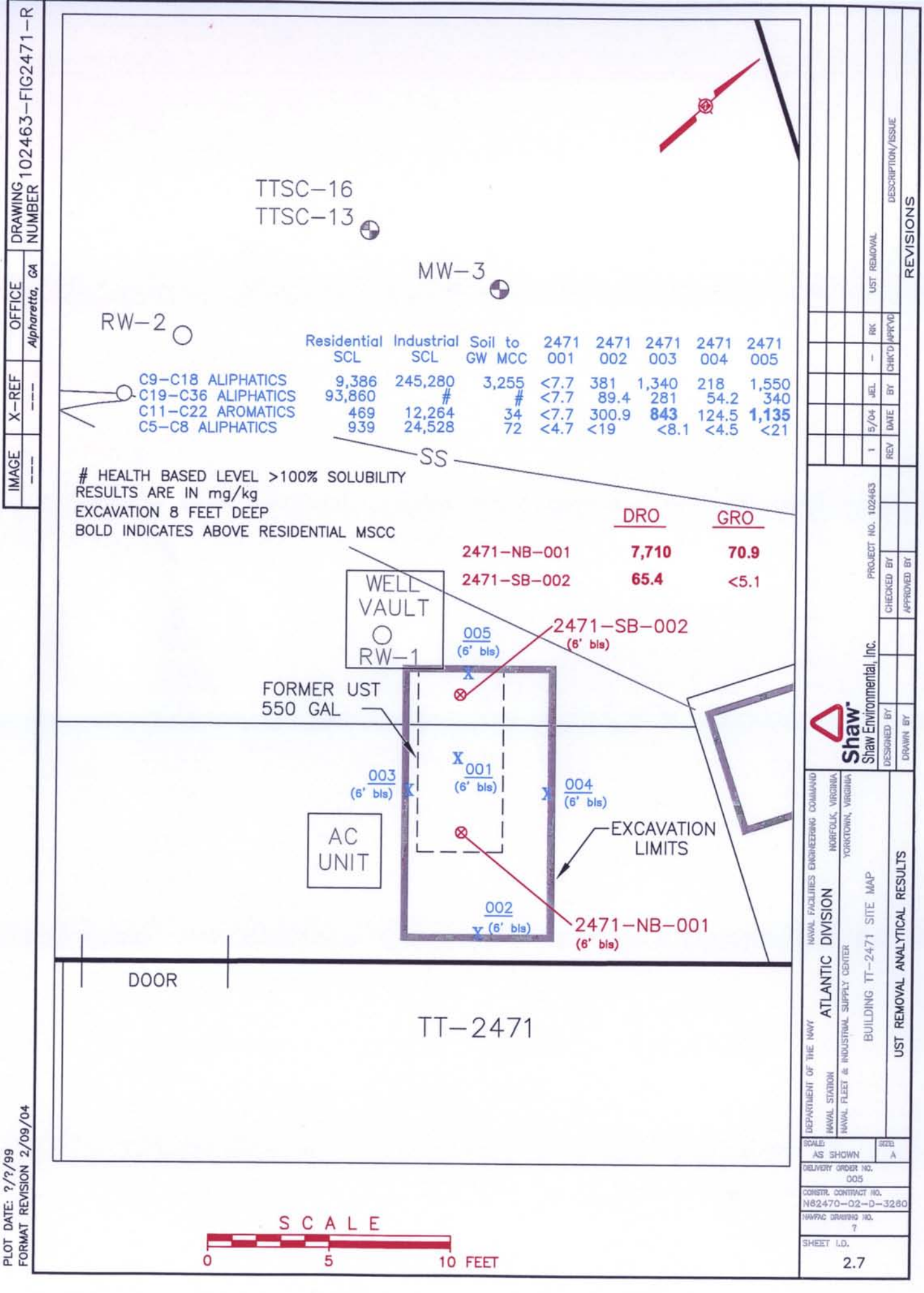


IMAGE | X-REF | OFFICE | DRAWING NUMBER
--- | --- | Alpharetta, GA | 102463-FIG2471-R

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

REVISIONS

REV	DATE	BY	CHK'D	APRV'D	DESCRIPTION/ISSUE
1	5/04	JEL	-	RK	UST REMOVAL

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NORFOLK, VIRGINIA
NAVAL STATION
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER
YORKTOWN, VIRGINIA

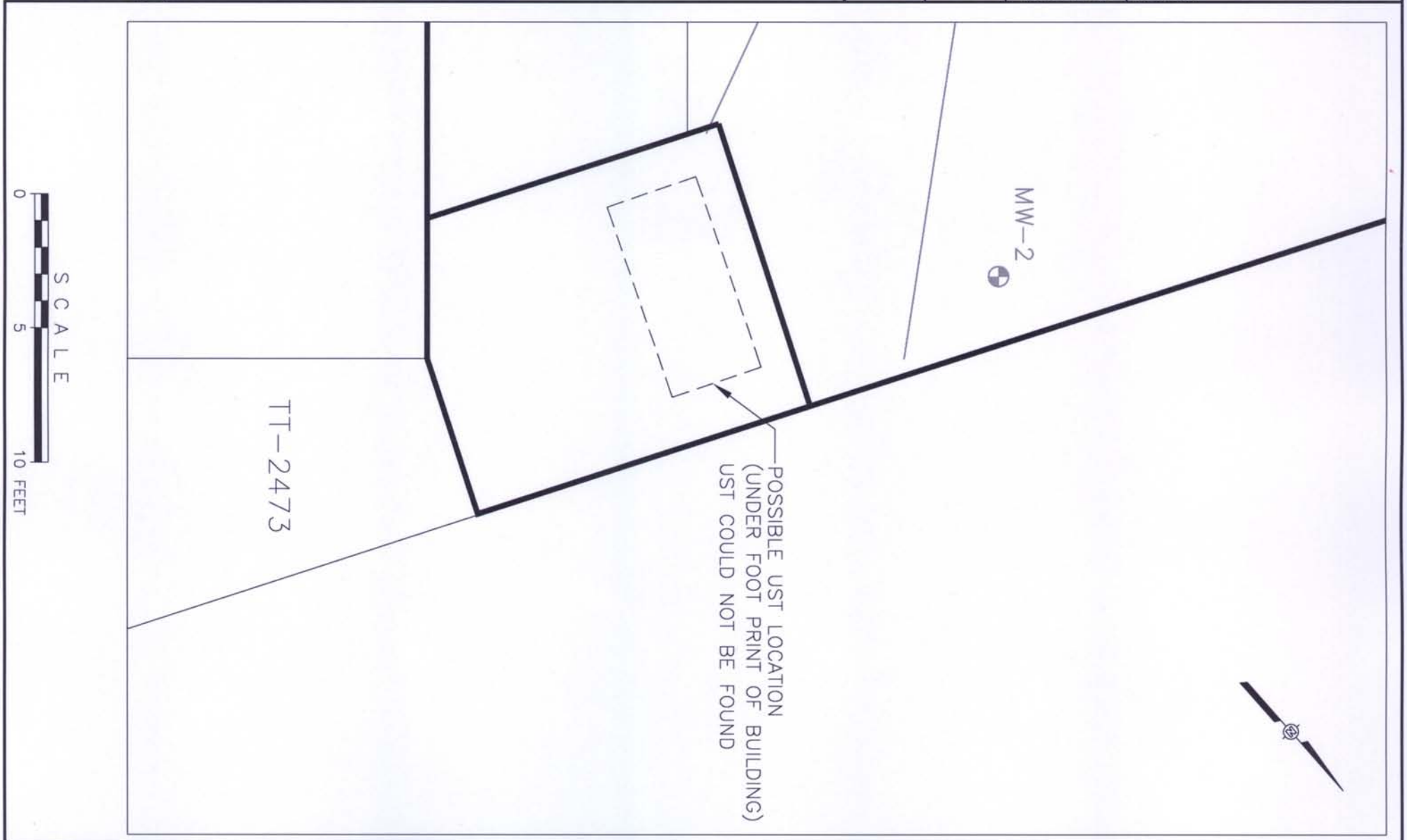
BUILDING TT-2471 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE: AS SHOWN
SIZE: A
DELIVERY ORDER NO. 005
CONSTR. CONTRACT NO. N62470-02-D-3260
NAVFAC DRAWING NO. ?
SHEET I.D. 2.7

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	*Alpharetta, GA*	102463-FIG2473-R



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NAVAL STATION — ATLANTIC DIVISION — NORFOLK, VIRGINIA
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER — YORKTOWN, VIRGINIA

BUILDING TT-2473 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

Shaw
Shaw Environmental, Inc.

PROJECT NO. 102463

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SCALE: AS SHOWN
SIZE: A
DELIVERY ORDER NO. 005
CONSTR. CONTRACT NO. N62470-02-D-3260
NAVFAC DRAWING NO. ?
SHEET I.D. 2.8

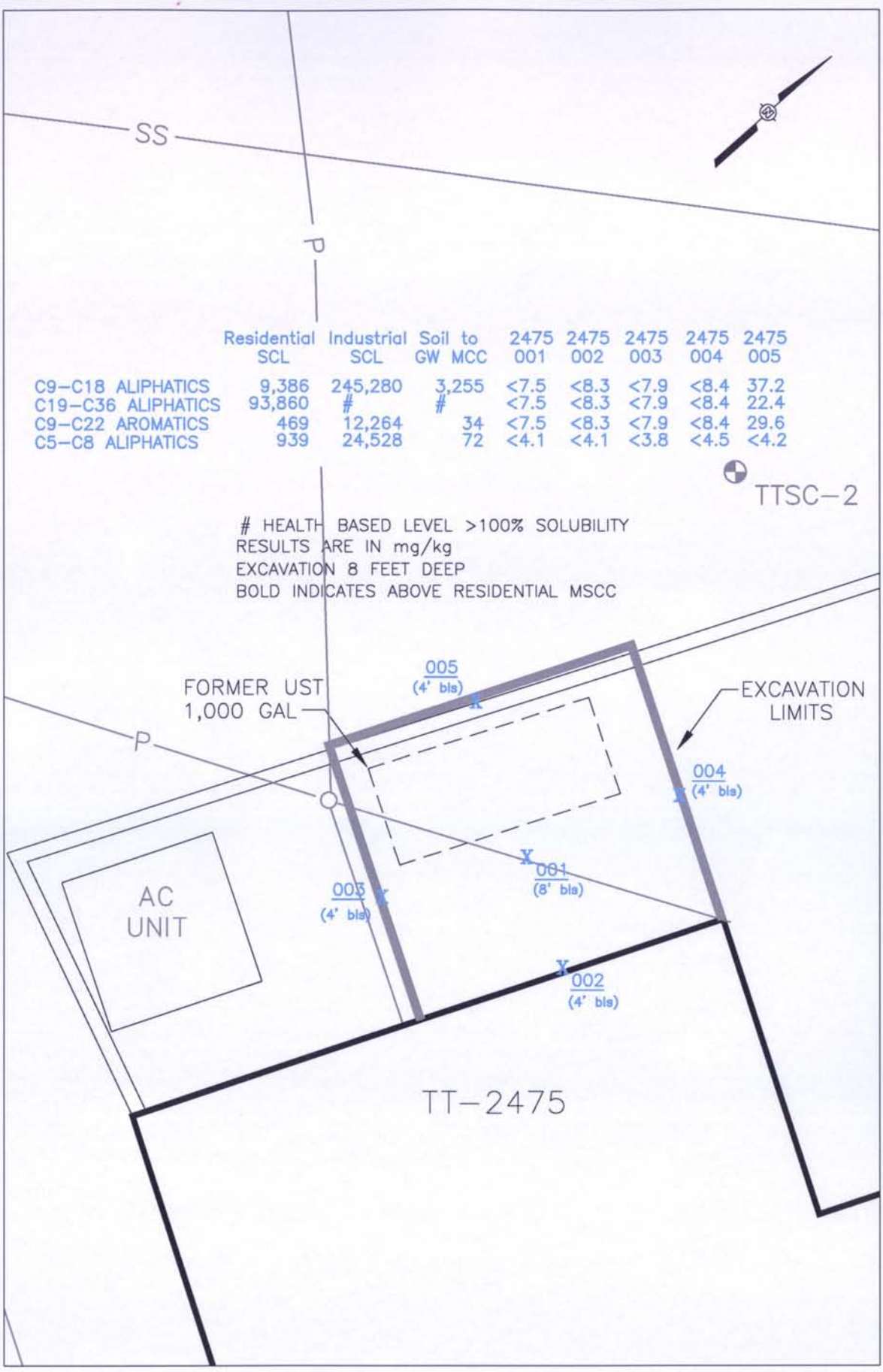
REVISIONS

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
1	5/04	JEL	–	RK	UST REMOVAL

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	*Alpharetta, GA*	102463-FIG2475-R

	Residential SCL	Industrial SCL	Soil to GW MCC	2475 001	2475 002	2475 003	2475 004	2475 005
C9-C18 ALIPHATICS	9,386	245,280	3,255	<7.5	<8.3	<7.9	<8.4	37.2
C19-C36 ALIPHATICS	93,860	#	#	<7.5	<8.3	<7.9	<8.4	22.4
C9-C22 AROMATICS	469	12,264	34	<7.5	<8.3	<7.9	<8.4	29.6
C5-C8 ALIPHATICS	939	24,528	72	<4.1	<4.1	<3.8	<4.5	<4.2

HEALTH BASED LEVEL >100% SOLUBILITY
RESULTS ARE IN mg/kg
EXCAVATION 8 FEET DEEP
BOLD INDICATES ABOVE RESIDENTIAL MSCC



SCALE
0 5 10 FEET

REVISIONS						
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE	
1	5/04	JEL	-	RK	UST REMOVAL	

PROJECT NO. 102463

Shaw Environmental, Inc.

DESIGNED BY	CHECKED BY
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NAVAL STATION ATLANTIC DIVISION NORFOLK, VIRGINIA
NAVAL FLEET & INDUSTRIAL SUPPLY CENTER YORKTOWN, VIRGINIA

BUILDING TT-2475 SITE MAP

UST REMOVAL ANALYTICAL RESULTS

SCALE:	SIZE:
AS SHOWN	A

DELIVERY ORDER NO.
005

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

NAVFAC DRAWING NO.
?

SHEET I.D.
2.9

PLOT DATE: ?/?/99
FORMAT REVISION 2/09/04

TABLES

Camp Lejeune, NC
Tarawa Terrace

Table 3.0

Tarawa Terrace Shopping Center

TPH-GRO/DRO Summary Confirmation Soil Sample Analytical Results

Project 102463

	Sample ID	2459-NB-001	2459-SB-002
	Building 2459 Sample Location	North End Bottom	South End Bottom
Contaminant of Concern	Units		
TPH - GRO (C6-C10)	ppm (mg/kg)	**31**	**74.8**
TPH - DRO (C10-C28)	ppm (mg/kg)	**800**	**3280**

	Sample ID	2461-NB-001	2461-SB-002
	Building 2461 Sample Location	North End Bottom	South End Bottom
Contaminant of Concern	Units		
TPH - GRO (C6-C10)	ppm (mg/kg)	**88.8**	**63.4**
TPH - DRO (C10-C28)	ppm (mg/kg)	**1520**	**837**

	Sample ID	2463-NB-001	2463-SB-002
	Building 2463 Sample Location	North End Bottom	South End Bottom
Contaminant of Concern	Units		
TPH - GRO (C6-C10)	ppm (mg/kg)	**229**	**116**
TPH - DRO (C10-C28)	ppm (mg/kg)	**5230**	**5680**

	Sample ID	2465-WTN-001	2465-WTS-002	2465-ETN-003	2465-ETS-004
	Building 2465 Sample Location	West Tank North End Bottom	West Tank South End Bottom	East Tank North End Bottom	East Tank South End Bottom
Contaminant of Concern	Units				
TPH - GRO (C6-C10)	ppm (mg/kg)	**497**	**557**	**231**	**386**
TPH - DRO (C10-C28)	ppm (mg/kg)	**11500**	**12400**	**3590**	**6570**

	Sample ID	2471-NB-001	2471-SB-002
	Building 2471 Sample Location	North End Bottom	South End Bottom
Contaminant of Concern	Units		
TPH - GRO (C6-C10)	ppm (mg/kg)	**70.9**	<5.1
TPH - DRO (C10-C28)	ppm (mg/kg)	**7710**	**65.4**

Table 3.1A
Building TT-2457
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8260B																
Contaminant of Concern				Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA		<3.2	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Soil to Groundwater MSCC (mg/kg)				3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg)				1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg)				40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8260B																
Contaminant of Concern				trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA		<0.32	**0.135 J**	<1.6	<1.6	<0.32	<0.32	<0.63	<1.6	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.95
Soil to Groundwater MSCC (mg/kg)				0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg)				4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg)				33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.1A
Building TT-2457
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8270C																
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA	<1.1	<0.22	<0.22	<0.22	<0.22	<1.1	<0.44	<0.22	<0.22	<0.22	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8270C																
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.22	**0.0721 J**	<0.44	<0.44	<0.44	<0.44	<0.44	<0.22	**0.239**	<0.22
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.1A
Building TT-2457
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA		<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.22	<0.22	<0.87	<0.22	<0.22	<0.22	<0.22	<0.22	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2457																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitrosc-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2457-F2457-001 Floor	6/2/2004	NA		<0.22	<0.22	<0.22	<0.22	<0.22	**1.05**	<0.044	<0.044	<0.044	**0.174 J**	<0.22	<0.22	<0.22	**0.459**	<0.22	<0.22	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		Sample Identification			2457-F2457-001			
EPH Surrogate Standards		Date Collected			06/02/2004			
Aliphatic: 1-Chlorooctadecane		Date Received			06/03/2004			
Aromatic: o-Terphenyl		Date Extracted			06/07/2004			
EPH Fractionation Surrogates		Date Analyzed			06/16/2004			
#1: 2-Fluorobiphenyl		% Dry Solids			76.2			
#2: 2-Bromonaphthalene		Dilution Factor			4			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	34000	34000	ND	280000			
C19-C36 Aliphatics	ug/kg	34000	34000	ND	84700			
C11-C22 Aromatics (Unadj.)	ug/kg	34000	34000	ND	129000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	72			
Aromatic Surrogate % Recovery				88	91			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	71			
Fractionation Surrogate #2 % Recovery				96	84			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2457-F2457-001			
		Collection Option (for soil)*			1			
		Date Collected			06/02/2004			
		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			76.2			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2600	4800	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1900	3500	ND	28300			
C9- C10 Aromatics (Unadj.)	**ug/kg**	640	1300	ND	18000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	100			
Aromatic Surrogate % Recovery - PID				105	92			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

Were any significant modifications to the VPH method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2457-NW-002			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.5			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8300	8300	ND	42600			
C19-C36 Aliphatics	ug/kg	8300	8300	ND	15600			
C11-C22 Aromatics (Unadj.)	ug/kg	8300	8300	ND	23200			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	44			
Aromatic Surrogate % Recovery				88	76			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	83			
Fractionation Surrogate #2 % Recovery				96	97			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH								
VPH Surrogate Standards		Sample Identification			2457-NW-002			
Aliphatic: BFB		Collection Option (for soil)*			1			
Aromatic: BFB		Date Collected			06/02/2004			
		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			78.5			
		Dilution Factor			1			
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK				
C5- C8 Aliphatics (Unadj.)	ug/kg	2400	4400	ND	ND			
C9- C12 Aliphatics (Unadj.)	ug/kg	1800	3300	ND	23300			
C9- C10 Aromatics (Unadj.)	ug/kg	590	1200	ND	14800			
Sample Surrogate Acceptance Range				70-130%	70-130%			
Aliphatic Surrogate % Recovery - FID				104	79			
Aromatic Surrogate % Recovery - PID				105	78			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2457-EW-003			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.9			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8400	8400	ND	ND			
C19-C36 Aliphatics	ug/kg	8400	8400	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8400	8400	ND	11700			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	66			
Aromatic Surrogate % Recovery				88	90			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	87			
Fractionation Surrogate #2 % Recovery				96	85			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2457-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			06/02/2004			
Aliphatic: BFB		Date Received			06/03/2004			
Aromatic: BFB		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			78.9			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2900	5500	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	2200	4100	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	740	1500	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	90			
Aromatic Surrogate % Recovery - PID				105	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2457-WW-004			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			80.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8200	8200	ND	ND			
C19-C36 Aliphatics	ug/kg	8200	8200	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8200	8200	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	41			
Aromatic Surrogate % Recovery				88	82			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	84			
Fractionation Surrogate #2 % Recovery				96	90			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev, 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2457-WW-004			
		Collection Option (for soil)*			1			
		Date Collected			06/02/2004			
		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			80.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2200	4100	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1700	3000	ND	2840 J			
C9- C10 Aromatics (Unadj.)	**ug/kg**	550	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	89			
Aromatic Surrogate % Recovery - PID				105	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

Were any significant modifications to the VPH method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2457-SW-005			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			81.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8100	8100	ND	ND			
C19-C36 Aliphatics	ug/kg	8100	8100	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8100	8100	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	43			
Aromatic Surrogate % Recovery				88	79			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	86			
Fractionation Surrogate #2 % Recovery				96	93			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.1B
Building TT-2457
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2457
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2457-SW-005			
VPH Surrogate Standards		Collection Option (for soil)*			1			
Aliphatic: BFB		Date Collected			06/02/2004			
Aromatic: BFB		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			81.1			
		Dilution Factor			1			
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK				
C5- C8 Aliphatics (Unadj.)	ug/kg	2300	4300	ND	ND			
C9- C12 Aliphatics (Unadj.)	ug/kg	1700	3200	ND	ND			
C9- C10 Aromatics (Unadj.)	ug/kg	580	1200	ND	ND			
Sample Surrogate Acceptance Range				70-130%	70-130%			
Aliphatic Surrogate % Recovery - FID				104	91			
Aromatic Surrogate % Recovery - PID				105	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2A
Building TT-2459
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2459																	
Analytical Method:				8260B																	
Contaminant of Concern				Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2459-F-001 Floor	5/20/2004	NA		<9.2	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92
Soil to Groundwater MSCC (mg/kg				3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38	
Residential MSCC (mg/kg)				1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320	
Industrial/Commercial MSCC (mg/kg				40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2459																	
Analytical Method:				8260B																	
Contaminant of Concern				trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)	
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2459-F-001 Floor	5/20/2004	NA		<0.92	3.68	<4.6	<4.6	<0.92	<0.92	<1.8	<4.6	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	**3.14**	
Soil to Groundwater MSCC (mg/kg				0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5	
Residential MSCC (mg/kg)				4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000	
Industrial/Commercial MSCC (mg/kg				33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.2A
Building TT-2459
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2459																
Analytical Method:			8270C																
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2459-F-001 Floor	5/20/2004	NA	<19	<3.8	<3.8	<3.8	<3.8	<19	<7.6	<3.8	<3.8	<3.8	<19	<19	<3.8	<3.8	<3.8	**2.37 J**	<3.8
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2459																
Analytical Method:			8270C																
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2459-F-001 Floor	5/20/2004	NA	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	**2.16 J**	<7.6	<7.6	<7.6	<7.6	<7.6	<3.8	**4.48**	<3.8
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.2A
Building TT-2459
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2459																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2459-F-001 Floor	5/20/2004	NA		<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.6	<3.8	<3.8	<15	<3.8	<3.8	<3.8	<3.8	<3.8	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2459																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2459-F-001 Floor	5/20/2004	NA		<3.8	<3.8	<3.8	<3.8	<3.8	53.4	<7.6	<7.6	<7.6	16.4	<3.8	<3.8	<3.8	8.34	<3.8	<3.8	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-F-001			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			85			
#2: 2-Bromonaphthalene		**Dilution Factor**			80			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	620000	620000	ND	2040000			
C19-C36 Aliphatics	ug/kg	620000	620000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	620000	620000	ND	2030000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

Sample Identification					2459-F-001			
Collection Option (for soil)*					1			
Date Collected					05/20/2004			
Date Received					05/21/2004			
Date Extracted					05/21/2004			
Date Analyzed					06/04/2004			
% Dry Solids					85			
Dilution Factor					1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	210000	390000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	160000	290000	ND	477000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	52000	100000	ND	173000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				101	138 *			
Aromatic Surrogate % Recovery - PID				101	157 *			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-NW-002			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			76.5			
#2: 2-Bromonaphthalene		**Dilution Factor**			4			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	34000	34000	ND	221000			
C19-C36 Aliphatics	ug/kg	34000	34000	ND	35300			
C11-C22 Aromatics (Unadj.)	ug/kg	34000	34000	ND	98700			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	76			
Aromatic Surrogate % Recovery				76	110			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	91			
Fractionation Surrogate #2 % Recovery				82	76			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2459-NW-002			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			76.5			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	4900	9200	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	3700	6800	ND	73000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	1200	2500	ND	48200			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				107	94			
Aromatic Surrogate % Recovery - PID				108	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-EW-003			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.9			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8300	8300	ND	17100			
C19-C36 Aliphatics	ug/kg	8300	8300	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8300	8300	ND	9780			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	60			
Aromatic Surrogate % Recovery				76	93			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	93			
Fractionation Surrogate #2 % Recovery				82	91			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2459-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			06/05/2004			
		% Dry Solids			79.9			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2400	4500	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1800	3300	ND	3670			
C9- C10 Aromatics (Unadj.)	**ug/kg**	600	1200	ND	1180 J			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				103	83			
Aromatic Surrogate % Recovery - PID				105	84			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-WW-004			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	330000	330000	ND	3750000			
C19-C36 Aliphatics	ug/kg	330000	330000	ND	520000			
C11-C22 Aromatics (Unadj.)	ug/kg	330000	330000	ND	1100000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2459-WW-004			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: BFB		**Date Received**			05/21/2004			
Aromatic: BFB		**Date Extracted**			05/21/2004			
		Date Analyzed			06/05/2004			
		% Dry Solids			79.1			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	24000	46000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	18000	34000	ND	306000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	6100	12000	ND	205000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				103	71			
Aromatic Surrogate % Recovery - PID				105	79			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-SW-005			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.8			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8400	8400	ND	13900			
C19-C36 Aliphatics	ug/kg	8400	8400	ND	8610			
C11-C22 Aromatics (Unadj.)	ug/kg	8400	8400	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	58			
Aromatic Surrogate % Recovery				76	82			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	87			
Fractionation Surrogate #2 % Recovery				82	85			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2459-SW-005			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/04/2004			
		% Dry Solids			78.8			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2200	4200	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1700	3100	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	560	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				101	90			
Aromatic Surrogate % Recovery - PID				101	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2459-SWD-006			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/10/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8500	8500		9440 J			
C19-C36 Aliphatics	ug/kg	8500	8500		ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8500	8500		ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	52			
Aromatic Surrogate % Recovery				76	82			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	89			
Fractionation Surrogate #2 % Recovery				82	90			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2459-SWD-006			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: BFB		**Date Received**			05/21/2004			
Aromatic: BFB		**Date Extracted**			05/21/2004			
		Date Analyzed			06/04/2004			
		% Dry Solids			78.1			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2400	4500	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1800	3300	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	600	1200	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				101	91			
Aromatic Surrogate % Recovery - PID				101	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.2B
Building TT-2459
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2459
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Trip Blank Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

Sample Identification					TRIP BLANK			
Collection Option (for soil)*					1			
Date Collected					05/20/2004			
Date Received					05/21/2004			
Date Extracted					05/21/2004			
Date Analyzed					06/02/2004			
% Dry Solids					N/A			
Dilution Factor					1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/l**	50	75	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/l**	30	55	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/l**	10	20	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	104			
Aromatic Surrogate % Recovery - PID				110	110			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3A
Building TT-2461
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2461																
Analytical Method:				8260B																
Contaminant of Concern				Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2461-F-001 Excavation Floor	5/20/2004	NA		<5.3	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
Soil to Groundwater MSCC (mg/kg				3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg				1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg				40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2461																
Analytical Method:				8260B																
Contaminant of Concern				trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2461-F-001 Excavation Floor	5/20/2004	NA		<0.53	**0.426 J**	<2.6	<2.6	<0.53	<0.53	<1.1	<2.6	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	**0.635 J**
Soil to Groundwater MSCC (mg/kg				0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg				4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg				33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.3A
Building TT-2461
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2461															
Analytical Method:			8270C															
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2461-F-001 Excavation Floor	5/20/2004	NA	<7.6	<1.5	<1.5	<1.5	<1.5	<7.6	<3.0	<1.5	<1.5	<1.5	<7.6	<7.6	<1.5	<1.5	<1.5	**1.27 J**	<1.5
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2461															
Analytical Method:			8270C															
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2461-F-001 Excavation Floor	5/20/2004	NA	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5	**0.795 J**	<3.0	<3.0	<3.0	<3.0	<3.0	<1.5	**2.72**	<1.5
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.3A
Building TT-2461
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2461															
Analytical Method:				8270C															
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2461-F-001 Excavation Floor	5/20/2004	NA		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<3.0	<1.5	<1.5	<6.1	<1.5	<1.5	<1.5	<1.5	<1.5
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2461															
Analytical Method:				8270C															
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2461-F-001 Excavation Floor	5/20/2004	NA		<1.5	<1.5	<1.5	<1.5	<1.5	6.12	<3.0	<3.0	<3.0	**1.17 J**	<1.5	<1.5	<1.5	**2.65**	<1.5	<1.5
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-F-001			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			87.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			50			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	380000	380000	ND	4080000			
C19-C36 Aliphatics	ug/kg	380000	380000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	380000	380000	ND	2030000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP VPH		**Sample Identification**			2461-F-001			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: BFB		**Date Received**			05/21/2004			
Aromatic: BFB		**Date Extracted**			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			87.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	210000	390000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	160000	290000	ND	1240000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	52000	100000	ND	579000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	129			
Aromatic Surrogate % Recovery - PID				104	129			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-NW-002			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			74.5			
#2: 2-Bromonaphthalene		**Dilution Factor**			4			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	35000	35000	ND	245000			
C19-C36 Aliphatics	ug/kg	35000	35000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	35000	35000	ND	85600			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	60			
Aromatic Surrogate % Recovery				76	89			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	89			
Fractionation Surrogate #2 % Recovery				82	89			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2461-NW-002			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			05/25/2004			
		% Dry Solids			74.5			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	25000	47000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	19000	34000	ND	226000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	6200	12000	ND	114000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				109	82			
Aromatic Surrogate % Recovery - PID				109	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-EW-003			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/29/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8400	8400	ND	93300			
C19-C36 Aliphatics	ug/kg	8400	8400	ND	14500			
C11-C22 Aromatics (Unadj.)	ug/kg	8400	8400	ND	29400			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	67			
Aromatic Surrogate % Recovery				76	87			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	89			
Fractionation Surrogate #2 % Recovery				82	82			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2461-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			05/25/2004			
		% Dry Solids			78.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2300	4300	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1700	3100	ND	32900			
C9- C10 Aromatics (Unadj.)	**ug/kg**	570	1100	ND	18100			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				109	104			
Aromatic Surrogate % Recovery - PID				109	93			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-WW-004	2461-WW-004		
EPH Surrogate Standards		**Date Collected**			05/20/2004	05/20/2004		
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004	05/21/2004		
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004	05/25/2004		
EPH Fractionation Surrogates		**Date Analyzed**			05/29/2004	06/04/2004		
#1: 2-Fluorobiphenyl		**% Dry Solids**			76.4	76.4		
#2: 2-Bromonaphthalene		**Dilution Factor**			1	2		
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	17000	17000	ND		105000		
C19-C36 Aliphatics	ug/kg	8500	8500	ND	16600			
C11-C22 Aromatics (Unadj.)	ug/kg	8500	8500	ND	29200			
Sample Surrogate Acceptance Range				**40-140**	**40-140**	**40-140**		
Aliphatic Surrogate % Recovery				55	79	76		
Aromatic Surrogate % Recovery				76	86	83		
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	77	75		
Fractionation Surrogate #2 % Recovery				82	61	58		

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH								
VPH Surrogate Standards		Sample Identification			2461-WW-004			
Aliphatic: BFB		Collection Option (for soil)*			1			
Aromatic: BFB		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			05/25/2004			
		% Dry Solids			76.4			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	22000	40000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	16000	30000	ND	252000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	5400	11000	ND	129000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				109	81			
Aromatic Surrogate % Recovery - PID				109	87			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-SW-005			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/29/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8300	8300	ND	9150			
C19-C36 Aliphatics	ug/kg	8300	8300	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8300	8300	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	62			
Aromatic Surrogate % Recovery				76	86			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	92			
Fractionation Surrogate #2 % Recovery				82	89			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK	Sample Identification: 2461-SW-005			
					Collection Option (for soil)*: 1			
					Date Collected: 05/20/2004			
					Date Received: 05/21/2004			
					Date Extracted: 05/21/2004			
					Date Analyzed: 06/02/2004			
					% Dry Solids: 79.1			
					Dilution Factor: 1			
C5- C8 Aliphatics (Unadj.)	ug/kg	2400	4500	ND	ND			
C9- C12 Aliphatics (Unadj.)	ug/kg	1800	3300	ND	ND			
C9- C10 Aromatics (Unadj.)	ug/kg	600	1200	ND	ND			
Sample Surrogate Acceptance Range				70-130%	70-130%			
Aliphatic Surrogate % Recovery - FID				104	88			
Aromatic Surrogate % Recovery - PID				104	88			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2461-FD-006			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			88.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			80			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	590000	590000	ND	5010000			
C19-C36 Aliphatics	ug/kg	590000	590000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	590000	590000	ND	1190000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.3B
Building TT-2461
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2461
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2461-FD-006			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			88.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	200000	370000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	150000	270000	ND	1270000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	50000	100000	ND	608000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	176 *			
Aromatic Surrogate % Recovery - PID				104	187 *			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.4A
Building TT-2463
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463																
Analytical Method:			8260B																
Contaminant of Concern			Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2463-F-001 Excavation Floor	5/20/2004	NA	<12	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Soil to Groundwater MSCC (mg/kg			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463																
Analytical Method:			8260B																
Contaminant of Concern			trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2463-F-001 Excavation Floor	5/20/2004	NA	<1.2	**0.943 J**	<6.1	<6.1	<1.2	<1.2	<2.4	<6.1	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**1.91 J**
Soil to Groundwater MSCC (mg/kg			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg			4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg			33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.4A
Building TT-2463
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463															
Analytical Method:			8270C															
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2463-F-001 Excavation Floor	5/20/2004	NA	<4.1	<0.81	<0.81	<0.81	<0.81	<4.1	<1.6	<0.81	<0.81	**<0.81**	<4.1	<4.1	<0.81	<0.81	<0.81	**1.62**	<0.81
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463															
Analytical Method:			8270C															
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2463-F-001 Excavation Floor	5/20/2004	NA	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<1.6	<0.81	**1.24**	<1.6	<1.6	<1.6	<1.6	<1.6	<0.81	**2.94**	<0.81
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.4A
Building TT-2463
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463															
Analytical Method:			8270C															
Contaminant of Concern			Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																
2463-F-001 Excavation Floor	5/20/2004	NA	**0.327 J**	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<1.6	<0.81	<0.81	<3.2	<0.81	<0.81	<0.81	<0.81	<0.81
Soil to Groundwater MSCC (mg/kg)			995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS
Residential MSCC (mg/kg)			4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS
Industrial/Commercial MSCC (mg/kg)			122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2463															
Analytical Method:			8270C															
Contaminant of Concern			Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2463-F-001 Excavation Floor	5/20/2004	NA	<0.81	<0.81	<0.81	<0.81	<0.81	**18.4**	<1.6	<1.6	<1.6	**2.54**	<0.81	<0.81	**2.84**	**5.27**	**0.721 J**	<0.81
Soil to Groundwater MSCC (mg/kg)			0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6
Residential MSCC (mg/kg)			3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156
Industrial/Commercial MSCC (mg/kg)			73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2463-F-001			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			80.6			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	330000	330000	ND	2850000			
C19-C36 Aliphatics	ug/kg	330000	330000	ND	405000			
C11-C22 Aromatics (Unadj.)	ug/kg	330000	330000	ND	1380000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?	Yes
Was blank correction applied as a significant modification of the method?	Yes
Were any significant modifications to the eph method made?	No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

Sample Identification					2463-F-001			
Collection Option (for soil)*					1			
Date Collected					05/20/2004			
Date Received					05/21/2004			
Date Extracted					05/21/2004			
Date Analyzed					06/03/2004			
% Dry Solids					80.6			
Dilution Factor					1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	110000	200000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	82000	150000	ND	678000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	27000	55000	ND	364000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	91			
Aromatic Surrogate % Recovery - PID				104	94			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2463-NW-002			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			82.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	320000	320000	ND	2560000			
C19-C36 Aliphatics	ug/kg	320000	320000	ND	383000			
C11-C22 Aromatics (Unadj.)	ug/kg	320000	320000	ND	1180000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2463-NW-002			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/03/2004			
		% Dry Solids			82.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	29000	54000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	22000	40000	ND	261000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	7200	14000	ND	163000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				105	114			
Aromatic Surrogate % Recovery - PID				105	103			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2463-EW-003			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			84.4			
#2: 2-Bromonaphthalene		**Dilution Factor**			10			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	78000	78000	ND	722000			
C19-C36 Aliphatics	ug/kg	78000	78000	ND	115000			
C11-C22 Aromatics (Unadj.)	ug/kg	78000	78000	ND	652000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	58			
Aromatic Surrogate % Recovery				84	204 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	116			
Fractionation Surrogate #2 % Recovery				90	134			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2463-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: BFB		**Date Received**			05/21/2004			
Aromatic: BFB		**Date Extracted**			05/21/2004			
		Date Analyzed			06/03/2004			
		% Dry Solids			84.4			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	11000	20000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	7900	15000	ND	78100			
C9- C10 Aromatics (Unadj.)	**ug/kg**	2600	5300	ND	44200			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				105	107			
Aromatic Surrogate % Recovery - PID				105	102			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

Were any significant modifications to the VPH method made? No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2463-WW-004			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.6			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8200	8200	ND	87700			
C19-C36 Aliphatics	ug/kg	8200	8200	ND	24000			
C11-C22 Aromatics (Unadj.)	ug/kg	8200	8200	ND	37900			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	73			
Aromatic Surrogate % Recovery				84	96			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	89			
Fractionation Surrogate #2 % Recovery				90	88			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2463-WW-004			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			06/03/2004			
		% Dry Solids			79.6			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2300	4200	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1700	3100	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	570	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	86			
Aromatic Surrogate % Recovery - PID				104	86			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2463-SW-005			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			73.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8900	8900	ND	ND			
C19-C36 Aliphatics	ug/kg	8900	8900	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8900	8900	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	68			
Aromatic Surrogate % Recovery				84	88			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	91			
Fractionation Surrogate #2 % Recovery				90	86			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.4B
Building TT-2463
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT 2463
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2463-SW-005			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			06/03/2004			
		% Dry Solids			73.1			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2500	4700	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1900	3500	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	630	1300	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	85			
Aromatic Surrogate % Recovery - PID				104	85			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.5A
Building TT-2465
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2465																
Analytical Method:			8260B																
Contaminant of Concern			Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2465-F-001 Excavation Floor	5/20/2004	NA	<5.7	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
Soil to Groundwater MSCC (mg/kg			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2465																
Analytical Method:			8260B																
Contaminant of Concern			trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2465-F-001 Excavation Floor	5/20/2004	NA	<0.57	0.416 J	<2.9	<2.9	<0.57	<0.57	<1.1	<2.9	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	**0.669 J**
Soil to Groundwater MSCC (mg/kg			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg			4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg			33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.5A
Building TT-2465
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2465															
Analytical Method:			8270C															
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2465-F-001 Excavation Floor	5/20/2004	NA	<4.0	<0.79	<0.79	<0.79	<0.79	<4.0	<1.6	<0.79	<0.79	**0.686 J**	<4.0	<4.0	<0.79	<0.79	<0.79	**0.236 J**	<0.79
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2465															
Analytical Method:			8270C															
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2465-F-001 Excavation Floor	5/20/2004	NA	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	**0.239 J**	<1.6	<1.6	<1.6	<1.6	<1.6	<0.79	**0.503 J**	<0.79
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.5A
Building TT-2465
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2465																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2465-F-001 Excavation Floor	5/20/2004	NA		<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<1.6	<0.79	<0.79	<3.2	<0.79	<0.79	<0.79	<0.79	<0.79	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzec but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2465																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2465-F-001 Excavation Floor	5/20/2004	NA		<0.79	<0.79	<0.79	<0.79	<0.79	**0.781 J**	<1.6	<1.6	<1.6	**0.231 J**	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzec but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2465-F-001			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			81.6			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	320000	320000	ND	3160000			
C19-C36 Aliphatics	ug/kg	320000	320000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	320000	320000	ND	478000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

Sample Identification					2465-F-001			
Collection Option (for soil)*					1			
Date Collected					05/20/2004			
Date Received					05/21/2004			
Date Extracted					05/21/2004			
Date Analyzed					06/02/2004			
% Dry Solids					81.6			
Dilution Factor					1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	110000	200000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	80000	150000	ND	1000000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	27000	53000	ND	612000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	104			
Aromatic Surrogate % Recovery - PID				104	116			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2465-NW-002			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			81.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			20			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	160000	160000	ND	1400000			
C19-C36 Aliphatics	ug/kg	160000	160000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	160000	160000	ND	440000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.000 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.000 *			
Fractionation Surrogate #2 % Recovery				82	0.000 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?	Yes
Was blank correction applied as a significant modification of the method?	Yes
Were any significant modifications to the eph method made?	No

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2465-NW-002			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			81.1			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	110000	200000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	80000	150000	ND	677000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	27000	53000	ND	342000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	114			
Aromatic Surrogate % Recovery - PID				104	99			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2465-EW-003	2465-EW-003		
EPH Surrogate Standards		**Date Collected**			05/20/2004	05/20/2004		
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004	05/21/2004		
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004	05/25/2004		
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004	06/04/2004		
#1: 2-Fluorobiphenyl		**% Dry Solids**			81.7	81.7		
#2: 2-Bromonaphthalene		**Dilution Factor**			20	40		
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	320000	320000	ND		1960000		
C19-C36 Aliphatics	ug/kg	160000	160000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	160000	160000	ND	240000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**	**40-140**		
Aliphatic Surrogate % Recovery				55	64	0.00 *		
Aromatic Surrogate % Recovery				76	75	0.00 *		
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	88	0.00 *		
Fractionation Surrogate #2 % Recovery				82	82	0.00 *		

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2465-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/20/2004			
Aliphatic: BFB		Date Received			05/21/2004			
Aromatic: BFB		Date Extracted			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			81.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	41000	77000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	31000	56000	ND	478000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	10000	20000	ND	286000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	77			
Aromatic Surrogate % Recovery - PID				104	76			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2465-WW-004			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			80			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	330000	330000	ND	2570000			
C19-C36 Aliphatics	ug/kg	330000	330000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	330000	330000	ND	374000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2465-WW-004			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			80			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	21000	39000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	16000	29000	ND	128000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	5200	10000	ND	68900			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	98			
Aromatic Surrogate % Recovery - PID				104	85			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2465-SW-005			
EPH Surrogate Standards		**Date Collected**			05/20/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/21/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/25/2004			
EPH Fractionation Surrogates		**Date Analyzed**			05/31/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			85			
#2: 2-Bromonaphthalene		**Dilution Factor**			80			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	620000	620000	ND	4100000			
C19-C36 Aliphatics	ug/kg	620000	620000	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	620000	620000	ND	629000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				55	0.00 *			
Aromatic Surrogate % Recovery				76	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				81	0.00 *			
Fractionation Surrogate #2 % Recovery				82	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.5B
Building TT-2465
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2465
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification			2465-SW-005			
		Collection Option (for soil)*			1			
		Date Collected			05/20/2004			
		Date Received			05/21/2004			
		Date Extracted			05/21/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			85			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	100000	190000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	77000	140000	ND	740000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	26000	51000	ND	393000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	89			
Aromatic Surrogate % Recovery - PID				104	85			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6A
Buildings TT-2467 and TT-2469
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2469															
Analytical Method:			8260B															
Contaminant of Concern			Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																
2467-F2467-002 Excavation North Wall	5/25/2004	NA	<5.5	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55
Soil to Groundwater MSCC (mg/kg			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2469															
Analytical Method:			8260B															
Contaminant of Concern			trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																
2467-F2467-002 Excavation North Wall	5/25/2004	NA	<0.55	<0.55	<2.8	<2.8	<0.55	<0.55	0.636 J	<2.8	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<1.7
Soil to Groundwater MSCC (mg/kg			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg			4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg			33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.6A
Buildings TT-2467 and TT-2469
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2469																	
Analytical Method:				8270C																	
Contaminant of Concern				Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2467-F2467-002 Excavation North Wall	5/25/2004	NA		<8.9	<1.8	<1.8	<1.8	<1.8	<8.9	<3.6	<1.8	<1.8	<1.8	<8.9	<8.9	<1.8	<1.8	<1.8	**0.464 J**	<1.8
Soil to Groundwater MSCC (mg/kg)				NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)				NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)				NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzec but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2469																	
Analytical Method:				8270C																	
Contaminant of Concern				4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2467-F2467-002 Excavation North Wall	5/25/2004	NA		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.6	<1.8	**0.362 J**	<3.6	<3.6	<3.6	<3.6	<3.6	<1.8	**0.459 J**	<1.8
Soil to Groundwater MSCC (mg/kg)				NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)				NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)				NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzec but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.6A
Buildings TT-2467 and TT-2469
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2469																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2467-F2467-002 Excavation North Wall	5/25/2004	NA		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.6	<1.8	<1.8	<7.1	<1.8	<1.8	<1.8	<1.8	<1.8	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2469																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2467-F2467-002 Excavation North Wall	5/25/2004	NA		<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<3.6	<3.6	<3.6	<1.8	<1.8	<1.8	<1.8	**0.397 J**	**2.45**	<1.8	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2469-F2469-001			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			85.7			
#2: 2-Bromonaphthalene		**Dilution Factor**			50			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	380000	380000	ND	3570000			
C19-C36 Aliphatics	ug/kg	380000	380000	ND	657000			
C11-C22 Aromatics (Unadj.)	ug/kg	380000	380000	ND	1910000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH								
VPH Surrogate Standards		Sample Identification			2469-F2469-001			
Aliphatic: BFB		Collection Option (for soil)*			1			
Aromatic: BFB		Date Collected			05/25/2004			
		Date Received			05/26/2004			
		Date Extracted			05/26/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			85.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	220000	410000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	170000	300000	ND	545000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	55000	110000	ND	206000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	0.00 *			
Aromatic Surrogate % Recovery - PID				105	0.00 *			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2467-F2467-002			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			92.4			
#2: 2-Bromonaphthalene		**Dilution Factor**			50			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	350000	350000	ND	3040000			
C19-C36 Aliphatics	ug/kg	350000	350000	ND	684000			
C11-C22 Aromatics (Unadj.)	ug/kg	350000	350000	ND	1290000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2467-F2467-002			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/25/2004			
Aliphatic: BFB		Date Received			05/26/2004			
Aromatic: BFB		Date Extracted			05/26/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			92.4			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	22000	42000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	17000	30000	ND	173000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	5500	11000	ND	110000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	85			
Aromatic Surrogate % Recovery - PID				108	101			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2469-NW-003			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/01/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/10/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			75.9			
#2: 2-Bromonaphthalene		**Dilution Factor**			5			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	43000	43000	ND	167000			
C19-C36 Aliphatics	ug/kg	43000	43000	ND	59700			
C11-C22 Aromatics (Unadj.)	ug/kg	43000	43000	ND	98900			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				59	57			
Aromatic Surrogate % Recovery				97	95			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	86			
Fractionation Surrogate #2 % Recovery				96	109			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2469-NW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/25/2004			
Aliphatic: BFB		Date Received			05/26/2004			
Aromatic: BFB		Date Extracted			05/26/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			75.9			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2500	4700	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1900	3400	ND	16500			
C9- C10 Aromatics (Unadj.)	**ug/kg**	620	1200	ND	10300			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	95			
Aromatic Surrogate % Recovery - PID				108	89			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2469-EW-004			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/01/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/10/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			40			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	340000	340000	ND	1700000			
C19-C36 Aliphatics	ug/kg	340000	340000	ND	497000			
C11-C22 Aromatics (Unadj.)	ug/kg	340000	340000	ND	747000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				59	0.00 *			
Aromatic Surrogate % Recovery				97	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	0.00 *			
Fractionation Surrogate #2 % Recovery				96	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2469-EW-004			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/25/2004			
Aliphatic: BFB		Date Received			05/26/2004			
Aromatic: BFB		Date Extracted			05/26/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			78.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2100	3900	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1500	2800	ND	8280			
C9- C10 Aromatics (Unadj.)	**ug/kg**	510	1000	ND	4600			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	92			
Aromatic Surrogate % Recovery - PID				105	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2469-WW-005			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/01/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/09/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			77.4			
#2: 2-Bromonaphthalene		**Dilution Factor**			10			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	84000	84000	ND	605000			
C19-C36 Aliphatics	ug/kg	84000	84000	ND	141000			
C11-C22 Aromatics (Unadj.)	ug/kg	84000	84000	ND	273000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				59	62			
Aromatic Surrogate % Recovery				97	111			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	83			
Fractionation Surrogate #2 % Recovery				96	99			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2469-WW-005			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/25/2004			
Aliphatic: BFB		Date Received			05/26/2004			
Aromatic: BFB		Date Extracted			05/26/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			77.4			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	4800	9100	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	3600	6600	ND	50100			
C9- C10 Aromatics (Unadj.)	**ug/kg**	1200	2400	ND	31100			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	92			
Aromatic Surrogate % Recovery - PID				108	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2469-SW-006			
EPH Surrogate Standards		**Date Collected**			05/25/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/26/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/01/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/10/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			76.2			
#2: 2-Bromonaphthalene		**Dilution Factor**			80			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	690000	690000	ND	6870000			
C19-C36 Aliphatics	ug/kg	690000	690000	ND	1390000			
C11-C22 Aromatics (Unadj.)	ug/kg	690000	690000	ND	2980000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				59	0.00 *			
Aromatic Surrogate % Recovery				97	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	0.00 *			
Fractionation Surrogate #2 % Recovery				96	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			2469-SW-006			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		Date Collected			05/25/2004			
Aliphatic: BFB		Date Received			05/26/2004			
Aromatic: BFB		Date Extracted			05/26/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			76.2			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	28000	52000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	21000	38000	ND	268000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	6900	14000	ND	166000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	73			
Aromatic Surrogate % Recovery - PID				108	80			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.6B
Building TT-2467 and TT-2469
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2469
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Trip Blank Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			TRIP BLANK			
		Collection Option (for soil)*			1			
		Date Collected			05/25/2004			
		Date Received			05/26/2004			
		Date Extracted			05/26/2004			
		Date Analyzed			06/02/2004			
		% Dry Solids			N/A			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/l**	50	75	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/l**	30	55	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/l**	10	20	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				106	102			
Aromatic Surrogate % Recovery - PID				110	106			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.7A
Building TT-2471
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2471															
Analytical Method:			8260B															
Contaminant of Concern			Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2471-WW-001 West Wall	5/21/2004	NA	<6.0	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Soil to Groundwater MSCC (mg/kg			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2471															
Analytical Method:			8260B															
Contaminant of Concern			trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2471-WW-001 West Wall	5/21/2004	NA	<0.6	<0.6	<3.0	<3.0	<0.6	<0.6	<1.2	<3.0	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<1.8
Soil to Groundwater MSCC (mg/kg			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg			4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg			33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.7A
Building TT-2471
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2471																
Analytical Method:				8270C																
Contaminant of Concern				Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2471-WW-001 West Wall	5/21/2004	NA		<1.1	<0.22	<0.22	<0.22	<0.22	<1.1	<0.44	<0.22	<0.22	<0.22	<1.1	<1.1	<0.22	<0.22	<0.22	**0.0864 J**	<0.22
Soil to Groundwater MSCC (mg/kg)				NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)				NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)				NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2471																
Analytical Method:				8270C																
Contaminant of Concern				4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenz(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2471-WW-001 West Wall	5/21/2004	NA		<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.22	**0.0995 J**	<0.44	<0.44	<0.44	<0.44	<0.44	<0.22	**0.243**	<0.22
Soil to Groundwater MSCC (mg/kg)				NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)				NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)				NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.7A
Building TT-2471
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2471																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2471-WW-001 West Wall	5/21/2004	NA		<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.44	<0.22	<0.22	<0.89	<0.22	<0.22	<0.22	<0.22	<0.22	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2471																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2471-WW-001 West Wall	5/21/2004	NA		<0.22	<0.22	<0.22	<0.22	<0.22	**0.467**	<0.044	<0.044	<0.044	**0.0989 J**	<0.22	<0.22	<0.22	**0.417**	<0.22	<0.22	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2471-F-001			
EPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/22/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			86.5			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	7700	7700	ND	ND			
C19-C36 Aliphatics	ug/kg	7700	7700	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	7700	7700	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	61			
Aromatic Surrogate % Recovery				84	84			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	88			
Fractionation Surrogate #2 % Recovery				90	85			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2471-F-001			
		Collection Option (for soil)*			1			
		Date Collected			05/21/2004			
		Date Received			05/22/2004			
		Date Extracted			05/22/2004			
		Date Analyzed			06/04/2004			
		% Dry Solids			86.5			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2500	4700	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1900	3400	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	620	1200	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				101	93			
Aromatic Surrogate % Recovery - PID				101	93			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2471-NW-002			
EPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/22/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			78.7			
#2: 2-Bromonaphthalene		**Dilution Factor**			10			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	84000	84000	ND	381000			
C19-C36 Aliphatics	ug/kg	84000	84000	ND	89400			
C11-C22 Aromatics (Unadj.)	ug/kg	84000	84000	ND	245000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	77			
Aromatic Surrogate % Recovery				84	126			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	124			
Fractionation Surrogate #2 % Recovery				90	115			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2471-NW-002			
		Collection Option (for soil)*			1			
		Date Collected			05/21/2004			
		Date Received			05/22/2004			
		Date Extracted			05/22/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			78.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	10000	19000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	7700	14000	ND	98700			
C9- C10 Aromatics (Unadj.)	**ug/kg**	2600	5200	ND	55900			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				107	76			
Aromatic Surrogate % Recovery - PID				108	79			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2471-EW-003			
EPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/22/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.7			
#2: 2-Bromonaphthalene		**Dilution Factor**			20			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	170000	170000	ND	1340000			
C19-C36 Aliphatics	ug/kg	170000	170000	ND	281000			
C11-C22 Aromatics (Unadj.)	ug/kg	170000	170000	ND	820000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2471-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: BFB		**Date Received**			05/22/2004			
Aromatic: BFB		**Date Extracted**			05/22/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			79.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	4300	8100	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	3200	5900	ND	39200			
C9- C10 Aromatics (Unadj.)	**ug/kg**	1100	2200	ND	23000			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				107	95			
Aromatic Surrogate % Recovery - PID				108	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2471-WW-004			
EPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/22/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/03/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			74.3			
#2: 2-Bromonaphthalene		**Dilution Factor**			4			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	36000	36000	ND	218000			
C19-C36 Aliphatics	ug/kg	36000	36000	ND	54200			
C11-C22 Aromatics (Unadj.)	ug/kg	36000	36000	ND	105000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	77			
Aromatic Surrogate % Recovery				84	102			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	97			
Fractionation Surrogate #2 % Recovery				90	93			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2471-WW-004			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: BFB		**Date Received**			05/22/2004			
Aromatic: BFB		**Date Extracted**			05/22/2004			
		Date Analyzed			06/05/2004			
		% Dry Solids			74.3			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2400	4500	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1800	3300	ND	31800			
C9- C10 Aromatics (Unadj.)	**ug/kg**	610	1200	ND	19500			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				103	103			
Aromatic Surrogate % Recovery - PID				105	96			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2471-SW-005			
EPH Surrogate Standards		**Date Collected**			05/21/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			05/22/2004			
Aromatic: o-Terphenyl		**Date Extracted**			05/27/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/02/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.7			
#2: 2-Bromonaphthalene		**Dilution Factor**			20			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	170000	170000	ND	1550000			
C19-C36 Aliphatics	ug/kg	170000	170000	ND	340000			
C11-C22 Aromatics (Unadj.)	ug/kg	170000	170000	ND	1070000			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				62	0.00 *			
Aromatic Surrogate % Recovery				84	0.00 *			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				86	0.00 *			
Fractionation Surrogate #2 % Recovery				90	0.00 *			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.7B
Building TT-2471
MADEP VPH/EPH Confirmation Soil Sample Analytical Results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2471
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification			2471-SW-005			
		Collection Option (for soil)*			1			
		Date Collected			05/21/2004			
		Date Received			05/22/2004			
		Date Extracted			05/22/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			79.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	11000	21000	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	8300	15000	ND	110000			
C9- C10 Aromatics (Unadj.)	**ug/kg**	2800	5500	ND	65200			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				103	78			
Aromatic Surrogate % Recovery - PID				105	83			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.8A
Building TT-2475
VOC and SVOC Confirmation Soil Sample Analytical Results

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2475																
Analytical Method:			8260B																
Contaminant of Concern			Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2475-F2475-001 Floor	6/2/2004	NA	**0.722**	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
Soil to Groundwater MSCC (mg/kg)			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg)			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg)			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date: 6/2/2004			Incident Number and Name: 102463 Tarawa Terrace Bldg 2475																
Analytical Method:			8260B																
Contaminant of Concern			trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																	
2475-F2475-001 Floor	6/2/2004	NA	<0.0053	<0.0053	<0.027	<0.027	<0.0053	<0.0053	<0.011	**0.234**	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.016
Soil to Groundwater MSCC (mg/kg)			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg)			4	1560	625	NS	NS	49	85	9385	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg)			33	40000	16352	NS	NS	440	763	245280	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.8A
Building TT-2475
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2475																	
Analytical Method:														8270C							
Contaminant of Concern			Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2475-F2475-001 Floor	6/2/2004	NA	<0.93	<0.19	<0.19	<0.19	<0.19	<0.93	<0.37	<0.19	<0.19	<0.19	<0.93	<0.93	<0.19	<0.19	<0.19	<0.19	<0.19
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)			NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2475																	
Analytical Method:														8270C							
Contaminant of Concern			4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenz(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
2475-F2475-001 Floor	6/2/2004	NA	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.37	<0.19	<0.19	<0.37	<0.37	<0.37	<0.37	<0.37	<0.19	<0.19	<0.19
Soil to Groundwater MSCC (mg/kg)			NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)			NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)			NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.8A
Building TT-2475
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2475																
Analytical Method:				8270C																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl ether	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2475-F2475-001 Floor	6/2/2004	NA		<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.37	<0.19	<0.19	<0.74	<0.19	<0.19	<0.19	<0.19	<0.19	
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS	
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS	
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Date:	6/2/2004		Incident Number and Name:	102463 Tarawa Terrace Bldg 2475																
Analytical Method:				8270C																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
2475-F2475-001 Floor	6/2/2004	NA		<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.37	<0.37	<0.37	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6	
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156	
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088	

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2475-F2475-001			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			89.1			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	7500	7500	ND	ND			
C19-C36 Aliphatics	ug/kg	7500	7500	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	7500	7500	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	54			
Aromatic Surrogate % Recovery				88	83			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	98			
Fractionation Surrogate #2 % Recovery				96	96			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB								
		Sample Identification			2475-F2475-001			
		Collection Option (for soil)*			1			
		Date Collected			06/02/2004			
		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/07/2004			
		% Dry Solids			89.1			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2200	4100	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1600	3000	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	540	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	91			
Aromatic Surrogate % Recovery - PID				105	91			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2475-NW-002			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.7			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8300	8300	ND	ND			
C19-C36 Aliphatics	ug/kg	8300	8300	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8300	8300	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	50			
Aromatic Surrogate % Recovery				88	85			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	103			
Fractionation Surrogate #2 % Recovery				96	105			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2475-NW-002			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: BFB		**Date Received**			06/03/2004			
Aromatic: BFB		**Date Extracted**			06/03/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			79.7			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2200	4100	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1600	3000	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	540	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	91			
Aromatic Surrogate % Recovery - PID				105	92			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2475-EW-003			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/16/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			83.9			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	7900	7900	ND	ND			
C19-C36 Aliphatics	ug/kg	7900	7900	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	7900	7900	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	47			
Aromatic Surrogate % Recovery				88	89			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	101			
Fractionation Surrogate #2 % Recovery				96	103			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2475-EW-003			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: BFB		**Date Received**			06/03/2004			
Aromatic: BFB		**Date Extracted**			06/03/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			83.9			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2100	3800	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1500	2800	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	510	1000	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	82			
Aromatic Surrogate % Recovery - PID				105	82			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2475-WW-004			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/14/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			79.4			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	8400	8400	ND	ND			
C19-C36 Aliphatics	ug/kg	8400	8400	ND	ND			
C11-C22 Aromatics (Unadj.)	ug/kg	8400	8400	ND	ND			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	60			
Aromatic Surrogate % Recovery				88	87			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	95			
Fractionation Surrogate #2 % Recovery				96	90			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH

VPH Surrogate Standards
Aliphatic: BFB
Aromatic: BFB

		Sample Identification			2475-WW-004			
		Collection Option (for soil)*			1			
		Date Collected			06/02/2004			
		Date Received			06/03/2004			
		Date Extracted			06/03/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			79.4			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2400	4500	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1800	3300	ND	1860 J			
C9- C10 Aromatics (Unadj.)	**ug/kg**	600	1200	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	90			
Aromatic Surrogate % Recovery - PID				105	90			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

EPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results								
Method for Ranges: MADEP-EPH-98-1		**Sample Identification**			2475-SW-005			
EPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: 1-Chlorooctadecane		**Date Received**			06/03/2004			
Aromatic: o-Terphenyl		**Date Extracted**			06/07/2004			
EPH Fractionation Surrogates		**Date Analyzed**			06/15/2004			
#1: 2-Fluorobiphenyl		**% Dry Solids**			88.6			
#2: 2-Bromonaphthalene		**Dilution Factor**			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C9-C18 Aliphatics	ug/kg	7400	7400	ND	37200			
C19-C36 Aliphatics	ug/kg	7400	7400	ND	22400			
C11-C22 Aromatics (Unadj.)	ug/kg	7400	7400	ND	29600			
Sample Surrogate Acceptance Range				**40-140**	**40-140**			
Aliphatic Surrogate % Recovery				50	44			
Aromatic Surrogate % Recovery				88	83			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				94	83			
Fractionation Surrogate #2 % Recovery				96	85			

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
MDL = Method Detection Limit RL = Reporting Limit

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes
Was blank correction applied as a significant modification of the method? Yes
Were any significant modifications to the eph method made? No

Table 3.8B
Building TT-2475
MADEP VPH/EPH Confirmation Soil Sample Analytical results

VPH (Aliphatics/Aromatics) Laboratory Reporting Forn

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-TT2475
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab): 573
Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		**Sample Identification**			2475-SW-005			
		Collection Option (for soil)*			1			
VPH Surrogate Standards		**Date Collected**			06/02/2004			
Aliphatic: BFB		**Date Received**			06/03/2004			
Aromatic: BFB		**Date Extracted**			06/03/2004			
		Date Analyzed			06/08/2004			
		% Dry Solids			88.6			
		Dilution Factor			1			
Hydrocarbon Ranges	**Units of Measure**	**MDL**	**RL**	**BLANK**				
C5- C8 Aliphatics (Unadj.)	**ug/kg**	2300	4200	ND	ND			
C9- C12 Aliphatics (Unadj.)	**ug/kg**	1700	3100	ND	ND			
C9- C10 Aromatics (Unadj.)	**ug/kg**	570	1100	ND	ND			
Sample Surrogate Acceptance Range				**70-130%**	**70-130%**			
Aliphatic Surrogate % Recovery - FID				104	95			
Aromatic Surrogate % Recovery - PID				105	96			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCoreTM) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? **Yes**

Were any significant modifications to the VPH method made? **No**

Table 3.9

Tarawa Terrace Shopping Center

MADEP-EPH/VPH Summary Confirmation soil Sample Analytical Results

Sample Information and Analytical Results TT-2457

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	280	42.6	<8.4	<8.2	<8.1
C19-C36 Aliphatics	mg/kg	93,860	#	#	84.7	15.6	<8.4	<8.2	<8.1
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	147	38	11.7	<8.2	<8.1
C5-C8 Aliphatics	mg/kg	939	24,528	72	<4.8	<4.4	<5.5	<4.1	<4.3

Sample Information and Analytical Results TT-2459

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	2040	221	17.1	3750	13.9
C19-C36 Aliphatics	mg/kg	93,860	#	#	<620	35.3	<8.3	520	8.6
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	2203	146.9	11	1305	<8.4
C5-C8 Aliphatics	mg/kg	939	24,528	72	<390	<9.2	<4.5	<46	<4.2

Sample Information and Analytical Results TT-2461

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	4080	245	93.3	105	9.2
C19-C36 Aliphatics	mg/kg	93,860	#	#	<380	<35	14.5	16.6	<8.3
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	2609	97	47.5	158.2	<8.3
C5-C8 Aliphatics	mg/kg	939	24,528	72	<390	<47	<4.3	<40	<4.5

Sample Information and Analytical Results TT-2463

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	2850	2560	722	87.7	<8.9
C19-C36 Aliphatics	mg/kg	93,860	#	#	405	383	115	24	<8.9
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	1744	1343	696.2	37.9	<8.9
C5-C8 Aliphatics	mg/kg	939	24,528	72	<200	<54	<20	<4.2	<4.7

= Health Based Level >100% Solubility

Table 3.9
Tarawa Terrace Shopping Center
MADEP-EPH/VPH Summary Confirmation soil Sample Analytical Results

Sample Information and Analytical Results TT-2465

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	3160	1400	1960	2570	4100
C19-C36 Aliphatics	mg/kg	93,860	#	#	<320	<160	<160	<330	<620
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	1090	782	526	442.9	1022
C5-C8 Aliphatics	mg/kg	939	24,528	72	<200	<200	<77	<39	<190

Sample Information and Analytical Results TT-2469

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-003	EW-004	WW-005	SW-006	2467-F-002
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water						
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	3570	167	1700	605	6870	3040
C19-C36 Aliphatics	mg/kg	93,860	#	#	657	59.7	497	141	1390	684
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	2116	109.2	751.6	584	3146	1400
C5-C8 Aliphatics	mg/kg	939	24,528	72	<410	<4.7	<3.9	<9.1	<52	<42

Sample Information and Analytical Results TT-2471

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	<7.7	381	1340	218	1550
C19-C36 Aliphatics	mg/kg	93,860	#	#	<7.7	89.4	281	54.2	340
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	<7.7	300.9	843	124.5	1135
C5-C8 Aliphatics	mg/kg	939	24,528	72	<4.7	<19	<8.1	<4.5	<21

Sample Information and Analytical Results TT-2475

Method for Ranges: MADEP-EPH/VPH		Sample Identification			F-001	NW-002	EW-003	WW-004	SW-005
Hydrocarbon Ranges	Units of Measure	Residential	Industrial	Soil to Water					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	<7.5	<8.3	<7.9	<8.4	37.2
C19-C36 Aliphatics	mg/kg	93,860	#	#	<7.5	<8.3	<7.9	<8.4	22.4
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	<7.5	<8.3	<7.9	<8.4	29.6
C5-C8 Aliphatics	mg/kg	939	24,528	72	<4.1	<4.1	<3.8	<4.5	<4.2

= Health Based Level >100% Solubility

Camp Lejeune, NC
Tarawa Terrace

Project # 102463

Table 3.10
Tarawa Terrace Shopping Center
Soil and Concrete Disposal Analytical Results

Compound	Reg. Limit	TT-COPM-1	COMP-GROUT-001
Organics			
TPH-DRO (mg/Kg)		**12200**	**1650**
TPH-GRO (mg/Kg)		**282**	**22.9**
General Chemistry			
Reactive Cyanide (mg/Kg)	250	<1.7	<1.8
Reactive Sulfide (mg/Kg)	500	<58	<50
Corrosivity (pH units)		**7.3**	**10.5**
Ignitability (°F)		>200	>200
TCLP (mg/L)			
Arsenic	5	**0.0074**	**0.0093**
Barium	100	**0.084**	**0.28**
Benzene	0.5	<0.01	<0.01
Cadmium	1	<0.005	<0.005
Carbon tetrachloride	0.5	<0.02	<0.02
Chlorobenzene	100	<0.02	<0.02
Chlordane	0.03	<0.005	<0.005
Chloroform	6	<0.02	<0.02
Chromium	5	<0.01	<0.01
o-Cresols	200	<0.05	<0.05
m+p-Cresols	200	<0.05	<0.05
2,4-D	10	<0.1	<0.1
1,4-Dichlorobenzene	7.5	<0.02	<0.02
1,2-Dichloroethane	0.5	<0.02	<0.02
1,1-Dichloroethene	0.7	<0.02	<0.02
2,4-Dinitrotoluene	0.13	<0.05	<0.05
Endrin	0.02	<0.001	<0.001
Heptachlor	0.008	<0.0005	<0.0005
Heptachlor epoxide	0.008	<0.0005	<0.0005
Hexachlorobenzene	0.13	<0.05	<0.05
Hexachlorobutadiene	0.5	<0.05	<0.05
Hexachloroethane	3	<0.05	<0.05
Lead	5	**0.024**	<0.05
Lindane	0.4	<0.0005	<0.0005
Mercury	0.2	**0.00037**	<0.01
Methoxychlor	10	<0.001	<0.001
Methyl ethyl ketone	200	<0.1	<0.1
Nitrobenzene	2	<0.05	<0.05
Pentachlorophenol	100	<0.25	<0.25
Pyridine	5	<0.1	<0.1
Selenium	1	**0.014**	<0.05
Silver	5	<0.01	<0.01
Tetrachloroethene	0.7	<0.02	<0.02
Trichloroethene	0.5	<0.02	<0.02
2,4,5-TP (Silvex)	1	<0.01	<0.01
2,4,5-Trichlorophenol	400	<0.05	<0.05
2,4,6-Trichlorophenol	2	<0.05	<0.05
Toxaphene	0.5	<0.025	<0.025
Vinyl chloride	0.2	<0.01	<0.01

Bold print shows detectable concentrations.
No results exceed regulatory limits.

APPENDIX A

NOTIFICATION of INTENT: UST PERMANENT CLOSURE or CHANGE IN SERVICE (UST-3 FORM)

Removal of the USTs, which had been abandoned in place in the early 1990's, was discussed in a meeting between the Navy and NCDENR on May 5, 2004 prior to removal activities, therefore a Notification of Intent form (GW/UST-3) to remove the UST was not submitted to the NCDENR, Wilmington Regional Office by the Marine Corp Base.

APPENDIX B

SITE INVESTIGATION REPORT for PERMANENT CLOSURE or CHANGE in SERVICE OF UST (UST-2 FORMS)

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN NC

Return completed form to:
The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:
I.D. #_____
Date Received_____

I. OWNERSHIP OF TANKS

Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville | Onslow
City | County
North Carolina | 28542
State | Zip Code
910-451-5068
Area Code | Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT- 2465
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune | Onslow | 28542
City | County | Zip Code
910- 451-9610
Area Code | Phone Number

III. CONTACT PERSONNEL

Name Nikki Hall | Job Title Environmental Eng. | Tel. No. 910-451-9610
Closure Contractor Ronald Kenyon | Address Alpharetta, Ga | Tel. No. 800-327-9942
Primary Consultant Ronald Kenyon | Address Alpharetta, Ga | Tel. No. 800-327-9942
Lab Accutest Laboratory | Address Orlando, Fl | Tel. No. 407-425-6700

IV. UST INFORMATION / V. EXCAVATION CONDITION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	550	42"x96"	Fuel Oil		x		x		x
2	550	42"x96"	Fuel Oil		x		x		x

VI. ADDITIONAL INFORMATION

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

PERMANENT CLOSURE
(For Removal or Abandonment-in-Place)

- [x] Contact local fire marshal
- [x] Notify DWM Regional Office before abandonment
- [x] Drain and flush piping into tank
- [x] Remove all product and residuals from tank
- [x] Excavate down to tank
- [x] Clean and inspect tank
- [x] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps, and all other tank fixtures
- [x] Cap or plug all lines except the vent and fill lines
- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 5/06/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used --specify_____

REMOVAL

- [x] Create vent hole
- [x] Label tank
- [x] Dispose of tank in approved manner. Final tank destination:

J & E Salvage
Jacksonville, NC

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

name and official title of owner or owner's authorized representative	Signature	Date Signed

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

Return completed form to:
The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:
I.D. #_____
Date Received_____

I. OWNERSHIP OF TANKS

Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville — Onslow
City — County
North Carolina — 28542
State — Zip Code
910-451-5068
Area Code — Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT- 2471
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune — Onslow — 28542
City — County — Zip Code
910- 451-9610
Area Code — Phone Number

III. CONTACT PERSONNEL

Name Nikki Hall — Job Title Environmental Eng. — Tel. No. 910-451-9610
Closure Contractor Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Primary Consultant Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Lab Accutest Laboratory — Address Orlando, Fl — Tel. No. 407-425-6700

IV. UST INFORMATION / V. EXCAVATION CONDITION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	550	42"x96"	Fuel Oil		x		x		x

VI. ADDITIONAL INFORMATION

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

PERMANENT CLOSURE
(For Removal or Abandonment-in-Place)

- [x] Contact local fire marshal
- [x] Notify DWM Regional Office before abandonment
- [x] Drain and flush piping into tank
- [x] Remove all product and residuals from tank
- [x] Excavate down to tank
- [x] Clean and inspect tank
- [x] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps, and all other tank fixtures
- [x] Cap or plug all lines except the vent and fill lines
- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 05/07/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used --specify_____

REMOVAL

- [x] Create vent hole
- [x] Label tank
- [x] Dispose of tank in approved manner. Final tank destination:

J & E Salvage
Jacksonville, NC

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

Print name and official title of owner or owner's authorized representative	Signature	Date Signed

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

Return completed form to:
The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:
I.D. #_____
Date Received_____

I. OWNERSHIP OF TANKS

Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville — Onslow
City — County
North Carolina — 28542
State — Zip Code
910-451-5068
Area Code — Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT-2463
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune — Onslow — 28542
City — County — Zip Code
910- 451-9610
Area Code — Phone Number

III. CONTACT PERSONNEL

Name	Nikki Hall	Job Title	Environmental Eng.	Tel. No.	910-451-9610
Closure Contractor	Ronald Kenyon	Address	Alpharetta, Ga	Tel. No.	800-327-9942
Primary Consultant	Ronald Kenyon	Address	Alpharetta, Ga	Tel. No.	800-327-9942
Lab	Accutest Laboratory	Address	Orlando, Fl	Tel. No.	407-425-6700

IV. UST INFORMATION / V. EXCAVATION CONDITION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	550	42"x96"	Fuel Oil		x		x		x

VI. ADDITIONAL INFORMATION

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

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(For Removal or Abandonment-in-Place)

- [x] Contact local fire marshal
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- [x] Excavate down to tank
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- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 05/10/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used –specify_____

REMOVAL

- [x] Create vent hole
- [x] Label tank
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J & E Salvage
Jacksonville, NC

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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

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Commanding General, MCB
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PSC Box 20004
Street Address
Jacksonville — Onslow
City — County
North Carolina — 28542
State — Zip Code
910-451-5068
Area Code — Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT- 2461
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune — Onslow — 28542
City — County — Zip Code
910- 451-9610
Area Code — Phone Number

III. CONTACT PERSONNEL

Name	Nikki Hall	Job Title	Environmental Eng.	Tel. No.	910-451-9610
Closure Contractor	Ronald Kenyon	Address	Alpharetta, Ga	Tel. No.	800-327-9942
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1	550	42"x96"	Fuel Oil		x		x		x

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- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 05/10/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used --specify_____

REMOVAL

- [x] Create vent hole
- [x] Label tank
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Jacksonville, NC

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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

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PSC Box 20004
Street Address
Jacksonville | Onslow
City | County
North Carolina | 28542
State | Zip Code
910-451-5068
Area Code | Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT-2459
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune | Onslow | 28542
City | County | Zip Code
910- 451-9610
Area Code | Phone Number

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Name Nikki Hall — Job Title Environmental Eng. — Tel. No. 910-451-9610
Closure Contractor Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Primary Consultant Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Lab Accutest Laboratory — Address Orlando, Fl — Tel. No. 407-425-6700

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1	550	42"x96"	Fuel Oil		x		x		x

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- [x] Cap or plug all lines except the vent and fill lines
- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 05/19/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used --specify_____

REMOVAL

- [x] Create vent hole
- [x] Label tank
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J & E Salvage
Jacksonville, NC

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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

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Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville — Onslow
City — County
North Carolina — 28542
State — Zip Code
910-451-5068
Area Code — Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT-2469
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune — Onslow — 28542
City — County — Zip Code
910- 451-9610
Area Code — Phone Number

III. CONTACT PERSONNEL

Name Nikki Hall — Job Title Environmental Eng. — Tel. No. 910-451-9610
Closure Contractor Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Primary Consultant Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
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- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 5/24/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used –specify_____

REMOVAL

- [x] Create vent hole
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Jacksonville, NC

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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

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STATE USE ONLY:
I.D. #_____
Date Received_____

I. OWNERSHIP OF TANKS

Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville | Onslow
City | County
North Carolina | 28542
State | Zip Code
910-451-5068
Area Code | Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT- 2467
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune | Onslow | 28542
City | County | Zip Code
910- 451-9610
Area Code | Phone Number

III. CONTACT PERSONNEL

Name Nikki Hall — Job Title Environmental Eng. — Tel. No. 910-451-9610
Closure Contractor Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
Primary Consultant Ronald Kenyon — Address Alpharetta, Ga — Tel. No. 800-327-9942
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- [x] Purge the tank of all product and flammable vapors
- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 5/24/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used --specify_____

REMOVAL

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J & E Salvage
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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN **NC**

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STATE USE ONLY:
I.D. #_____
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I. OWNERSHIP OF TANKS

Commanding General, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
PSC Box 20004
Street Address
Jacksonville Onslow
City County
North Carolina 28542
State Zip Code
910-451-5068
Area Code Phone Number

II. LOCATION OF TANKS

Tarawa Terrace Shopping Center
Facility Name or Company
Building TT-2457
Facility ID # (If known)
Iwo Jima Blvd & Tarawa Blvd
Street Address
Camp Lejeune Onslow 28542
City County Zip Code
910- 451-9610
Area Code Phone Number

III. CONTACT PERSONNEL

Name Nikki Hall Job Title Environmental Eng. Tel. No. 910-451-9610
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1	1,000	54"x120"	Fuel Oil		x		x	x	

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- [x] Cut one or more large holes in the tank
- [x] Backfill the area

Date tank(s) Permanently Closed: 5/26/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used –specify_____

REMOVAL

- [x] Create vent hole
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UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN NC

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Building TT- 2475
Facility ID # (If known)
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1	1,000	54"x120"	Fuel Oil		x		x	x	

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- [x] Backfill the area

Date tank(s) Permanently Closed: 5/27/04

Date of Change in-service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening
- [ ] Plug or cap all openings
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used –specify_____

REMOVAL

- [x] Create vent hole
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APPENDIX C

SITE SPECIFIC HEALTH and SAFETY PLAN (HASP) ADDENDUM

Site Specific Health & Safety Plan
Amendment Documentation

Project Name: MCB-Camp Lejeune:
TARAWA TERRACE BUILDINGS
TT2463/2473 UST REMOVAL

Project No. 102463

Amendment No. 19 **Date:** 3/8/04

The Amendment Addresses the Following Sections:

Section 2.2	Scope of Work
Section 4.1	Chemical Hazards
Section 4.3	Physical Hazards
Section 6.0	Protective Equipment
Section 8.0	Air Monitoring

Task(s) Amendment Affects:

Additional work was awarded expanding the current scope of work to include the removal of 10 Underground Storage Tanks, ranging in size from 300-500 gallons. It is presumed the tanks contained heating fuel oil for the adjacent businesses.

Reason For Amendment:

The additional work was not addressed in original Site Specific Health and Safety Plan

Amendment:

Section 2.2: Scope of Work

This amendment to the site specific health and safety plan will address the following focused tasks for the underground storage tank removal:

- Remove, decontaminate and dispose of UST. Remove concrete from tank (if present) for proper disposal.
- Remove, decontaminate and dispose of any associated UST piping.
- Remove and dispose of any free product discovered.
- Excavate, stockpile, and manage soils on-site until T&D load-out.
- Collect soil samples for verification and disposal.

Section 4.1: Chemical Hazards

Chemical hazards on this portion of the project are those associated with the breakdown products of fuel oil. A Corrective Action Plan (CAP) prepared by Richard Catlin and Associates, Inc. (CATLIN), dated September 12, 1996, identified the contaminants of concern benzene, ethylbenzene, acenaphthene, xylenes, bis(2-ethylhexyl)phthalate, fluorene, naphthalene, pyrene, and phenanthrene.

Summary of Site Contaminants

CHEMICAL	EXPOSURE ROUTES	PEL/TLV	HEALTH HAZARDS/ PHYSICAL HAZARDS
Benzene	Inhalation Ingestion, Skin & Eye Contact	OSHA PEL= 1 ppm STEL= 5 ppm	• Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen] • Strong oxidizers, many fluorides & perchlorates, nitric acid
Ethylbenzene	Inhalation, Ingestion. Skin & Eye Contact	OSHA PEL= 100ppm STEL=125 ppm	• Irritation of eyes, skin, mucous membrane, headache, dermatitis, narcosis, coma • Flammable Liquid; Avoid strong oxidizers.
Xylenes	Inhalation, Ingestion. Skin & Eye Contact	OSHA PEL= 100ppm STEL= 150ppm	• Irritation of eyes, skin, nose, and throat; dizziness, excitement, drowsiness, incoordination, staggering gait, corneal vacuolization; anorexia, nausea, vomiting, abdominal pain, dermatitis. • Avoid strong oxidizers and strong acids.
Bis(2-ethylhexyl) phthalate	Inhalation, Ingestion. Skin & Eye Contact	ACGIH TLV= 5.0 mg/m^3	• May cause skin and eye irritation, irritation of mucous membranes, upper respiratory irritation. • Avoid strong oxidizers
Coal Tar Pitch Volatiles: acenapthene fluorene, naphthalene, pyrene, and phenanthrene	Inhalation, Skin & Eye Contact	OSHA PEL= 0.1mg/m^3	• Irritation of skin, dermatitis, bronchitis, [potential occupational carcinogen] • Avoid strong oxidizers

Section 4.3: Physical Hazards

Physical hazards on this site include heavy equipment operation, deep excavations, contact with above/underground utilities, and the potential for explosive/combustible atmospheres in and around the tanks.

- Review attached Activity Hazard Analysis for excavation, removal and decontamination of tanks and piping, removal of product, and sampling prior to beginning operations.
- Removal/disconnecting of power sources that may be present will require adherence to HS-315, Control of Hazardous Energy Sources.
- Obtain a hot work permit and conduct all hot work in accordance with HS-314.
- Utilize spark and explosion proof equipment.
- Deep excavations present confined space hazards. In the event entry is necessary, conduct work in accordance with HS-315.
- Isolate equipment swing areas and maintain safe distances to eliminate potential for injury from flying debris during operation of the hoe-ram in the event tanks are filled with concrete.
- All above and underground utilities shall be identified and marked by the appropriate authority, as required by HS-308, prior to the initiation of intrusive activities. Utility mark-out documentation shall be completed prior to beginning all demolition activities.

Section 6.0: Personal Protective Equipment:

PPE to be utilized will consist of the following:

Task	Initial PPE Level	Upgrade PPE Level	Skin Protection	Respiratory Protection	Other PPE
Remove, decontaminate, and dispose of tanks and concrete; Remove, decontaminate, and dispose of piping	Modified Level 'D'	Not Anticipated	Leather-work gloves; Utilize poly-coated Tyvek or Rain Suits for decontamination; Tyvek® coveralls may be used to prevent gross contamination.	None	Hard-hat, steel-toe work boots, hearing protection >85 dBA. Metatarsal and shin guards are required when operating a pressure washer. Utilize goggles and face shield when pressure washing.
Remove and dispose of free product	Modified Level 'D'	Not Anticipated	Butyl Rubber Gloves for handling product and equipment contaminated with free product; Poly Coated Tyvek,	None	Hard-hat, steel-toe work boots, hearing protection >85 dBA. Face shields when disconnecting hose.

Task	Initial PPE Level	Upgrade PPE Level	Skin Protection	Respiratory Protection	Other PPE
			boot covers		
Excavate, stockpile, and manage soils on-site until T&D load-out.	Level D	Not Anticipated	Leather work gloves.	None	Hard-hat, steel-toe work boots, eye protection and hearing protection >85 dBA.
Collect soil samples for verification and disposal	Level D	Not Anticipated	Nitrile sample gloves	None	Hard-hat, steel-toe work boots, eye protection and hearing protection >85 dBA.

Section 8.0 Air Monitoring:

Air monitoring will be conducted in order to characterize personnel exposures and fugitive emissions from site contaminants. The principle contaminants are the breakdown products associated with fuel oil consisting of benzene, ethylbenzene, acenaphthene, xylenes, bis(2-ethylhexyl)phthalate, fluorene, naphthalene, pyrene, and phenanthrene. An FID will be utilized to conduct air monitoring in the breathing zone and work area during all excavation and removal of tanks, piping, soils, and removal of free product.

Monitoring will be conducted to detect oxygen levels and the presence of explosive vapors in the work area with a combustible gas/oxygen meter.

If the tanks are filled with concrete, the concrete will be broken down into manageable pieces for disposal. This process may generate dusts containing silica. A Data RAM will be used to monitor for airborne particulates in the work area during this process.

Direct Reading Air Monitoring Requirements

Monitoring Device	Monitoring Location/ Personnel	Monitoring Frequency	Action Level	Action
FID	Breathing zone/Equipment Operator (EO) and Recovery Technician (RT) during the excavation and removal of tanks, piping, soils, and removal of free	Continuously during excavation activities. Monitoring will be performed during sampling and soil relocation activities at the discretion of the SSO	1.0 ppm* 1.0- 30.0 ppm* No benzene present >30.0 ppm*	Colorimetric tubes for Benzene. Level D Stop work and contact Health and Safety Coordinator

Monitoring Device	Monitoring Location/ Personnel	Monitoring Frequency	Action Level	Action
	product			
Colorimetric Tubes-Benzene	Breathing zone/Equipment Operator (EO) and Recovery Technician (RT) during the excavation and removal of tanks, piping, soils and removal of free product.	Sustained PID readings of 1 ppm or greater	<1.0 ppm* >1.0 ppm*	Level D Stop work and contact Health and Safety Coordinator
Multi-Gas Detector	Work area during tank/piping removal. Work area in the event entry into excavation is necessary	Duration of operations. Prior to entry; and continuously during entry	Oxygen ≥ 19.5 % and ≤ 22.5%; LEL <10% Oxygen < 19.5% and >22.5%; LEL ≥ 10%	Monitor continuously and watch for levels to fluctuate Stop Work, evacuate area and contact Health and Safety Coordinator.
Data Ram	Work area/breathing zone of Equipment Operator and Recovery Technician during concrete breaking	Initially and then periodically at the discretion of the SSO	<0.5 mg/m^3 >0.5 mg/m^3	Level D Dust control such as wetting. If dust control is not effective stop work and contact Health and Safety Coordinator.

*Sustained readings above background.

Completed by: Kym Edelman,
Health and Safety Coordinator

Approved by: David Mummert, CIH
Health and Safety Manager

ATTACHMENT 1
HEALTH-AND-SAFETY PLAN CERTIFICATION

By signing this document, I am stating that I have read and understand the Site Health and Safety Plan Amendment No. 19 for personnel and visitors entering MCB-Camp Lejeune; Tarawa Terrace Buildings TT2463/2473 UST Removal.

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REPRESENTING	NAME (PRINT)	SIGNATURE	DATE

ATTACHMENT 2

Material Safety Data Sheets

1) benzene
2) ethylbenzene
3) acenaphthene
4) xylenes
5) bis(2-ethylhexyl)phthalate
6) fluorine
7) naphthalene
8) pyrene
9) phenanthrene
10) fuel oil

ATTACHMENT 3

Activity Hazard Analysis

ACTIVITY HAZARD ANALYSIS FOR TANK REMOVAL, CLEANING, AND DISPOSAL; REMOVAL OF CONCRETE IF PRESENT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Excavation of Tank	Underground/ Overhead Utilities	• Identify all utilities around the site before work commences • Cease work immediately if unknown utility markers are uncovered • Use manual excavation within 3 feet of known utilities • Utility clearance shall conform with 29 CFR 1926.955 (high voltage >700 kv) 15 feet phase to ground clearance; 31 feet phase to phase clearance		
	Excavation Wall Collapse	• Construct diversion ditches or dikes to prevent surface water from entering excavation • Provide good drainage of area adjacent to excavation • Collect ground water/rain water from excavation and dispose of properly • Store excavated material at least 2 feet from the edge of the excavation; prevent excessive loading of the excavation face • Provide sufficient stairs, ladders, or ramps when workers enter excavations over 4 feet in depth • Place ladders no more than 25 feet apart laterally • Treat excavations over 4 feet deep as confined spaces • Complete confined space permit entry procedure • Monitor atmosphere for flammable/toxic vapors, and oxygen deficiency • Slope, bench, shore, or sheet excavations over 5 feet deep if worker entry is required • Assign a competent person to inspect, decide soil classification, proper sloping, the correct shoring, or sheeting • Inspect excavations (when personnel entry is required) daily, whenever conditions change • Provide at least two means of exit for personnel working in excavations.	Hard hat, Safety glasses, Steel toe work boots	
	Struck By/ Against Heavy Equipment	• Wear reflective warning vests when exposed to vehicular traffic • Isolate equipment swing areas	Warning vest, Hard hat, Safety glasses, Steel toe work boots	

ACTIVITY HAZARD ANALYSIS FOR TANK REMOVAL, CLEANING, AND DISPOSAL; REMOVAL OF CONCRETE IF PRESENT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Excavation of Tank (Continued)		• Make eye contact with operators before approaching equipment • Understand and review hand signals		
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads		
	Slips, Trips, Falls	• Clear walkways, work areas of equipment, vegetation, excavated material, tools, and debris • Mark, identify, or barricade other obstructions • Evaluate fall hazards above 4 ft.; use fall protection equipment (harness/lanyard), standard guardrails or other fall protection systems when working on elevated platforms above 6 ft.		
	Sharp Objects	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges or objects • Maintain all hand and power tools in a safe condition • Keep guards in place during use	Wizard or similar cut resistant gloves	
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period) • Assess noise level with sound level meter if possibility exists that level may exceed 85dBA TWA	Ear plugs	
	Inhalation and Contact with Hazardous Substances	• Provide workers proper skin, eye and respiratory protection based on the exposure hazards present • Review hazardous properties of site contaminants with workers before operations begin • Monitor breathing zone air to determine levels of contaminants	Leather work gloves. Butyl Rubber gloves if free product is encountered.	LEL/O_2, FID, Colorimetric Tubes for Benzene
	High/Low Ambient Temperature	• Monitor for Heat/Cold stress in accordance with Shaw Health and Safety Procedures # HS400, HS401 • Provide fluids to prevent worker dehydration	Insulated Clothing (subject to ambient temperature)	Meteorological Equipment

ACTIVITY HAZARD ANALYSIS FOR TANK REMOVAL, CLEANING, AND DISPOSAL; REMOVAL OF CONCRETE IF PRESENT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Tank Cleaning (cont'd)		• Follow work/rest schedules.		
	Fire/ Explosion	• Eliminate sources of ignition from the work area • Prohibit smoking • Provide ABC (or equivalent) fire extinguishers in all work, flammable storage areas and with fuel powered generators and compressors • Store flammable liquids in well ventilated areas • Prohibit storage, transfer of flammable liquids in plastic containers • Post "NO SMOKING" signs • Store combustible materials away from flammables • Complete hot work permit in accordance with HS-314.	Portable fire extinguisher	LEL/O_2
	Flammable, Toxic, Oxygen deficient Atmospheres	• Test vessel atmosphere for flammable/toxic vapors, and oxygen deficiency • De-energize, lock-out and tag all energized equipment • Review hazardous properties of site contaminants with employees before work starts • Review emergency procedures before work commences	Portable fire extinguisher	LEL/O_2
	Burns	• Wear proper work gloves, face shield/safety goggles, and leather apron to protect workers from skin burns when welding, cutting, and burning	Face shield, Safety goggles	
	Sharp Objects	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges or objects • Maintain all hand and power tools in a safe condition • Keep guards in place during use	Leather gloves	
	Inhalation and Contact with Hazardous Substances, & Splashes	• Provide workers proper skin, eye and respiratory protection based on the exposure hazards present • Review hazardous properties of site contaminants with workers before operations begin • Wear hard hats, safety glasses with side shields, or goggles with splash shields and steel-toe safety boots	PVC rain suit or poly-coated Tyvek®, inner sample gloves, outer butyl rubber gloves, boot covers, full-face shield and goggles.	

ACTIVITY HAZARD ANALYSIS FOR TANK REMOVAL, CLEANING, AND DISPOSAL; REMOVAL OF CONCRETE IF PRESENT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
	Burns (use of Hotsy), Lacerations	• Wear proper gloves, face shield/safety goggles, shin and toe guards, and splash suits to protect workers from skin burns and injury when operating laser (high pressure washers) • Tape gloves to PPE sleeves to lessen the possibility of hot water entering gloves • Use hand tools to loosen connections and position body to avoid pressure discharge • Wear shin and toe guards to protect from burns, lacerations and similar injuries	Goggles and face shield, shin and toe guards	
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads • Avoid actions/activities that contribute to overexertion • Warm up muscles before engaging in manual lifting activities • Review lifting posture/techniques regularly at safety meetings		
	Sharp Objects/ Cuts and Punctures	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges/objects or working with hand tools • Maintain all hand and power tools in a safe condition • Keep guards in place during use • Guard or pad metal edges of objects frequently used (access panels, etc.) or manipulated/bypassed during maintenance • Position heavy objects to avoid manipulation while cleaning • Get assistance and dry glove surfaces to improve grip during object manipulation while cleaning	Leather gloves, Goggles and face shield, shin and toe guards	
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period)	Hearing protection	
Removal of Concrete	Struck by/ Against Heavy Equipment, Flying Debris, Protruding Objects	• Wear reflective warning vests when exposed to vehicular traffic • Isolate equipment swing areas when hoe-ram is in use. • Make eye contact with operators before approaching equipment	Warning vests, Hard hat, Safety glasses	

ACTIVITY HAZARD ANALYSIS FOR TANK REMOVAL, CLEANING, AND DISPOSAL; REMOVAL OF CONCRETE IF PRESENT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
		• Barricade or enclose the area where the hoe-ram is in use. • Restrict entry to the work area to authorized personnel during activities • Wear hard hats, safety glasses with side shields, and steel-toe safety boots		
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads		
	Sharp Objects	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges or objects • Maintain all hand and power tools in a safe condition • Keep guards in place during use	Leather gloves	
	Inhalation and Contact with Hazardous Substances	• Provide workers proper skin, eye and respiratory protection based on the exposure hazards present • Review hazardous properties of site contaminants with workers before operations begin • Keep concrete wet to avoid generation of dust. • Monitor breathing zone air to determine levels of dust	Leather work gloves.	Data Ram
EQUIPMENT REQUIRED		**INSPECTION REQUIREMENTS**	**TRAINING REQUIREMENTS**	
• Heavy Equipment • Hoe Ram • Air Monitoring Equipment • Pressure Sprayer • Hand and power tools		• Equipment inspections • Inspection of all emergency equipment (i.e.: first aid kits, fire extinguishers)	• Review SSHP • Review requirements of HS-314, Hot Work in Hazardous Locations • Review site-specific AHA with all task personnel • Review Health and Safety Procedures • Review site specific contamination • Review operation manuals for the pumps and related equipment	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL, DECON, AND DISPOSE OF PIPING				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Remove, decon and dispose of piping	Underground/ Overhead Utilities	• Identify all utilities around the site before work commences • Cease work immediately if unknown utility markers are uncovered • Use manual excavation within 3 feet of known utilities • Utility clearance shall conform with 29 CFR 1926.955 (high voltage >700 kv) 15 feet phase to ground clearance; 31 feet phase to phase clearance		
	Excavation Wall Collapse	• Construct diversion ditches or dikes to prevent surface water from entering excavation • Provide good drainage of area adjacent to excavation • Collect ground water/rain water from excavation and dispose of properly • Store excavated material at least 2 feet from the edge of the excavation; prevent excessive loading of the excavation face • Complete excavation permits daily when excavation activities occur • Provide sufficient stairs, ladders, or ramps when workers enter excavations over 4 feet in depth • Place ladders no more than 25 feet apart laterally • Treat excavations over 4 feet deep as confined spaces • Complete confined space permit entry procedure • Monitor atmosphere for flammable/toxic vapors, and oxygen deficiency • Slope, bench, shore, or sheet excavations over 5 feet deep if worker entry is required • Assign a competent person to inspect, decide soil classification, proper sloping, the correct shoring, or sheeting • Inspect excavations (when personnel entry is required) daily, whenever conditions change • Provide at least two means of exit for personnel working in excavations.	Hard hat, Safety glasses, Steel toe work boots	
	Struck By/ Against	• Wear reflective warning vests when exposed to vehicular traffic	Warning vest, Hard hat, Safety glasses,	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL, DECON, AND DISPOSE OF PIPING				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Remove, decon, and dispose of piping (Continued)	Heavy Equipment	• Isolate equipment swing areas • Make eye contact with operators before approaching equipment • Understand and review hand signals	Steel toe work boots	
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads		
	Slips, Trips, Falls	• Clear walkways, work areas of equipment, vegetation, excavated material, tools, and debris • Mark, identify, or barricade other obstructions • Evaluate fall hazards above 4 ft		
	Caught In/ Between Moving Parts	• Identify and understand parts of equipment which may cause crushing, pinching, rotating or similar injuries • Assure guards are in place to protect from these parts of equipment during operation • Provide and use proper work gloves when the possibility of crush, pinch, or other injury may be caused by moving/stationary edges or objects • Maintain all equipment in a safe condition • Keep all guards in place during use • De-energize and lock-out machinery before maintenance or service		
	Sharp Objects	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges or objects • Maintain all hand and power tools in a safe condition • Keep guards in place during use	Wizard or similar cut resistant gloves	
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period) • Assess noise level with sound level meter if possibility exists that level may exceed 85dBA TWA	Ear plugs	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL, DECON, AND DISPOSE OF PIPING				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Remove, Decon, and Dispose of Piping (Continued)	High/Low Ambient Temperature	• Monitor for Heat/Cold stress in accordance with Shaw Health and Safety Procedures # HS400, HS401 • Provide fluids to prevent worker dehydration • Follow work/rest schedule in Section 3.3.1/3.3.2 of the HASP	Insulated Clothing (subject to ambient temperature)	Meteorological Equipment
	Inhalation and Contact with Hazardous Substances, & Splashes	• Provide workers proper skin, eye and respiratory protection based on the exposure hazards present • Review hazardous properties of site contaminants with workers before operations begin • Wear hard hats, safety glasses with side shields, or goggles with splash shields and steel-toe safety boots	PVC rain suit or poly-coated Tyvek®, inner sample gloves, outer butyl rubber gloves, boot covers, full-face shield and goggles.	FID; O2/LEL
	Burns (use of Hotsy), Lacerations	• Wear proper gloves, face shield/safety goggles, shin and toe guards, and splash suits to protect workers from skin burns and injury when operating laser (high pressure washers) • Tape gloves to PPE sleeves to lessen the possibility of hot water entering gloves • Use hand tools to loosen connections and position body to avoid pressure discharge • Wear shin and toe guards to protect from burns, lacerations and similar injuries	Goggles and face shield, shin and toe guards	
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads • Avoid actions/activities that contribute to overexertion • Warm up muscles before engaging in manual lifting activities • Review lifting posture/techniques regularly at safety meetings		
	Sharp Objects/ Cuts and Punctures	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges/objects or working with hand tools • Maintain all hand and power tools in a safe condition • Keep guards in place during use • Guard or pad metal edges of objects frequently used (access panels, etc.) or manipulated/bypassed during maintenance	Leather gloves, Goggles and face shield, shin and toe guards	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL, DECON, AND DISPOSE OF PIPING				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
		• Position heavy objects to avoid manipulation while cleaning • Get assistance and dry glove surfaces to improve grip during object manipulation while cleaning		
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period)	Hearing protection	
EQUIPMENT REQUIRED		**INSPECTION REQUIREMENTS**	**TRAINING REQUIREMENTS**	
• Heavy Equipment • Air Monitoring Equipment • Pressure Sprayer • Hand and power tools		• Equipment inspections • Inspection of all emergency equipment (i.e.: first aid kits, fire extinguishers)	• Review SSHP • Review requirements of HS-314, Hot Work in Hazardous Locations • • Review site-specific AHA with all task personnel • Review Health and Safety Procedures • Review site specific contamination • Review operation manuals for the pumps and related equipment	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL OF FREE PRODUCT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
Vac Truck Operations	Inhalation and Contact with Hazardous Substances, Splash, Spill and Pressurized Line Discharge	• Provide workers proper skin, eye and respiratory protection based on the exposure hazards present • Review hazardous properties of site contaminants with workers before operations begin • Monitor breathing zone air to determine levels of contaminants	Tyvek coveralls, butyl rubber gloves, latex or neoprene boots, splash shields, and safety goggles	LEL/O_2, FID
	Fire/ Explosion from Ignition of flammable vapors	• Test atmospheres with combustible gas meter in areas where flammable materials are handled • Eliminate sources of ignition from the work area • Prohibit smoking • Post "NO SMOKING" signs • Shut-off all fuel powered equipment during refueling • Use grounding and bonding during to eliminate static discharge during vac truck operations • Prohibit storage, transfer of flammable liquids in plastic containers • Vent vac-truck air discharge downwind, away from vehicle engine, work areas • Provide ABC (or equivalent) fire extinguishers in all work and flammable storage areas • Store combustible materials away from flammables		LEL/O_2
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period) • Assess noise level with sound level meter if possibility exists that level may exceed 85dBA TWA	Ear plugs	
	Struck by/ Against Heavy Equipment, Protruding Objects	• Wear reflective warning vests when exposed to vehicular traffic • Isolate equipment swing areas • Make eye contact with operators before approaching equipment	Warning vests, hard hat, goggles and face shield, steel toe work boots	

ACTIVITY HAZARD ANALYSIS FOR REMOVAL OF FREE PRODUCT				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Air Monitoring Devices**
		• Wire tie hose connections closed • Release head pressure before opening hose connections • Barricade or enclose work areas • Restrict entry to the work area to authorized personnel • Wear hard hats, safety goggles and splash shields, and steel-toe safety boots		
	Sharp Objects	• Wear cut resistant work gloves when the possibility of lacerations or other injury may be caused by sharp edges or objects • Maintain all hand and power tools in a safe condition • Keep guards in place during use	Leather gloves	
	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads		
	Slips, Trips, Falls	• Clear walkways, work areas, of equipment, vegetation, excavated material, tools and debris • Mark, identify, or barricade other obstructions • Use fall protection working on Vac-truck catwalks (above 6 feet)		
	High/Low Ambient Temperature	• Monitor for Heat/Cold stress in accordance with Shaw Health and Safety Procedures # HS400, HS401 • Provide fluids to prevent worker dehydration • Follow work/rest schedules.	Insulated Clothing (subject to ambient temperature)	Meteorological Equipment
EQUIPMENT REQUIRED		**INSPECTION REQUIREMENTS**	**TRAINING REQUIREMENTS**	
• Heavy Equipment • Vac Truck • Air Monitoring Equipment • Hand and power tools		• Equipment inspections • Inspection of all emergency equipment (i.e.: first aid kits, fire extinguishers)	• Review SSHP • Review site-specific AHA with all task personnel • Review Health and Safety Procedures • Review site specific contamination • Review operation manuals for the pumps and related equipment	

ACTIVITY HAZARD ANALYSIS FOR SOIL EXCAVATION, STOCKPILING, AND MANAGING SOILS				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Monitoring Devices**
Soil Excavation/ Stockpiling/ Managing Soils	Underground/ Overhead Utilities	• Identify all utilities at the site before work commences • Complete the Underground Utility permit in accordance with Shaw Health and Safety Procedure HS308 • Cease work immediately if unknown utility markers are uncovered		
	Struck By/ Against Heavy Equipment	• Wear reflective warning vests when exposed to vehicular traffic • Isolate equipment swing areas • Make eye contact with operators before approaching equipment • Understand and review hand signals • Step away from equipment when bucket adjustments are made. • Park equipment in areas where operator can see clearly to dismount equipment • Use "spotters when backing. • Ensure the equipment has operable back-up alarms	Reflective vest, hard hat, safety glasses and steel toe work boots	

ACTIVITY HAZARD ANALYSIS FOR SOIL EXCAVATION, STOCKPILING, AND MANAGING SOILS				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Monitoring Devices**
	Excavation Wall Collapse	• Construct diversion ditches or dikes to prevent surface water from entering excavation • Provide good drainage of area adjacent to excavation • Collect ground water/rain water from excavation and dispose of properly • Store excavated material at least 2 feet from the edge of the excavation; prevent excessive loading of the excavation face • Complete excavation permit daily when excavation activities occur • Provide sufficient stairs, ladders, or ramps when workers enter excavations over 4 feet in depth • Place ladders no more than 25 feet apart laterally • Treat excavations over 4 feet deep as confined spaces • Complete confined space permit entry procedure • Monitor atmosphere for flammable/toxic vapors, and oxygen deficiency • Slope, bench, shore, or sheet excavations over 5 feet deep if worker entry is required • Assign a competent person to inspect, decide soil classification, proper sloping, the correct shoring, or sheeting • Inspect excavations (when personnel entry is required) daily, whenever conditions change • Provide at least two means of exit for personnel working in excavations.	Hard hat, Safety glasses, Steel toe work boots	
	Inhalation and Contact with Hazardous Substances or landfill gases	• Review hazardous properties of site contaminants with workers before sampling operations begin • Provide workers proper skin, eye and respiratory protection based on the exposure hazards present.		LEL/O_2/, FID
	High Noise Levels	• Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period)	Hearing protection	

ACTIVITY HAZARD ANALYSIS FOR SOIL EXCAVATION, STOCKPILING, AND MANAGING SOILS

Task Breakdown	Potential Hazards	Critical Safety Practices	Personal Protective Clothing and Equipment	Monitoring Devices
	Slips, Trips, Falls	• Clear, walkways of equipment, vegetation, tools and debris • Mark, identify, or barricade other obstructions • Exit equipment slowly and maintain three point contact • Clean boot soles before climbing on equipment • Watch footing on the side of the embankment • Park heavy equipment on level ground to avoid potential sprains/strains when ascending/descending		
Soil Excavation/ Stockpiling/ Managing Soils (continued)	Handling Heavy Objects	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. Maximum per person manual lifting) • Avoid carrying heavy objects above shoulder level • Warm up muscles before engaging in manual lifting	Warning vests, hard hat, safety glasses and steel toe work boots	
	High Ambient Temperature	• Provide fluids to prevent worker dehydration • Monitor for heat stress in accordance with Health and Safety Procedure HS400.		Meteorological Equipment
	Equipment failure	• Perform daily maintenance inspections on operating equipment • Inspect dump trucks before use		
Manual Excavation	Struck/Struck By	• Use the right tool for the task at hand • Maintain personal balance when performing manual excavation • Concentrate on the work task being performed	Reflective vests	
	Overexertion	• Use the right tool for the task at hand • Avoid actions/activities that produce overexertion		
	Horseplay	• Prohibit horseplay on all project sites • Review rules about horseplay with subcontract supervisors and workers • Remind workers not to respond/participate in horseplay started by others		

EQUIPMENT REQUIRED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
• Excavator • Shovels, probes • Dump trucks • Air monitoring equipment	• Daily equipment inspections as per manufacturers requirements • Excavation inspection/permit • Inspection of all emergency equipment (i.e.: first aid kits, fire extinguishers)	• Review AHA with all task personnel • Review Site Specific Health and Safety Plan. • Review operations/safety manuals for all equipment utilized • Review site specific chemical hazards

ACTIVITY HAZARD ANALYSIS FOR COLLECTING SOIL SAMPLES				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Monitoring Devices**
Sampling	Handling Heavy Objects (coolers)	• Observe proper lifting techniques • Obey sensible lifting limits (60 lb. maximum per person manual lifting) • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads		
	Slips, Trips, Falls	• Clear walkways, work areas of equipment, tools, vegetation, excavated material, and debris • Mark, identify, or barricade other obstructions		
	Spills	• Wear splash protection as necessary to prevent dermal contact • Ensure spill cleanup equipment/material on hand/ready for use (i.e.: Baking soda to neutralize and sample preservative spills) • Cleanup spills immediately	Full face shield /guard and goggles	
	Inhalation and Contact with Hazardous Substances or exhaust gases	• Review hazardous properties of site contaminants with workers before operations begin • Monitor breathing zone air and work area to determine levels of contaminants • Dampen material using light water spray to prevent fugitive dust emissions • Entry into the excavation will require adherence to HS-300, Confined Spaces.	Sample gloves, Hard Hat, Tyvek to prevent gross contamination	LEL/O2, FID
	Excavation Wall Collapse	• Construct diversion ditches or dikes to prevent surface water from entering excavation • Provide good drainage of area adjacent to excavation • Collect ground water/rain water from excavation and dispose of properly • Store excavated material at least 2 feet from the edge of the excavation; prevent excessive loading	Hard hat, Safety glasses, Steel toe work boots	

ACTIVITY HAZARD ANALYSIS FOR COLLECTING SOIL SAMPLES				
Task Breakdown	**Potential Hazards**	**Critical Safety Practices**	**Personal Protective Clothing and Equipment**	**Monitoring Devices**
Sampling (continued)		of the excavation face • Provide sufficient stairs, ladders, or ramps when workers enter excavations over 4 feet in depth • Place ladders no more than 25 feet apart laterally • Treat excavations over 4 feet deep as confined spaces • Complete confined space permit entry procedure • Monitor atmosphere for flammable/toxic vapors, and oxygen deficiency • Slope, bench, shore, or sheet excavations over 5 feet deep if worker entry is required • Assign a competent person to inspect, decide soil classification, proper sloping, the correct shoring, or sheeting • Inspect excavations (when personnel entry is required) daily, whenever conditions change • Provide at least two means of exit for personnel working in excavations.		
	High/Low Ambient Temperature	• Monitor for Heat / Cold stress in accordance with Shaw Health and Safety Procedures HS400, HS401 • Provide fluids to prevent worker dehydration • Take adequate rest periods in a cool/warm shaded area • During rest breaks, replenish body fluids by drinking plenty of fluids (water and Gatorade type liquids). Do not drink caffeinated beverages • Remove PPE if possible during rest periods • Include plenty of salt in your food intake, however, do not take salt tablets	Insulated Clothing (subject to ambient temperature)	Meteorological Equipment

EQUIPMENT REQUIRED	**INSPECTION REQUIREMENTS**	**TRAINING REQUIREMENTS**
• Sample supplies • Air Monitoring Equipment	• Daily equipment inspections as per manufacturers requirements • Inspection of all emergency equipment (i.e.: first aid kits, fire extinguishers)	• Review AHA with all task personnel • Review Site Specific Health and Safety Plan • Excavation Competent Person • Confined Space Training

APPENDIX D

CERTIFICATE of FUEL OIL UST DISPOSAL DOCUMENTATION

J & E SALVAGE CO.
2012 BLUE CREEK ROAD
JACKSONVILLE, NORTH CAROLINA 28540

John Darlington
RES. (910) 346-5168

(910) 347-JUNK
5865

FAX (910) 938-3736

To Whom it may concern,
All metals from TT2463 were dropped off at J+E Salvage on July 23, 2004 for recycling.
If you have any question on this matter please contact me at the number above.

Thank you,
Melissa White

APPENDIX E

SOIL and CONCRETE DISPOSAL MANIFESTS

Marine Corps Base, Camp Lejeune 04608
Non-Hazardous Waste Shipping Document

Document #:_____

Site: Terawa Terrace

Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES & J Enterprises Inc.
1555 Holland Rd Autryville N.C 28318 (910) 567-6138

US EPA ID Number:_____

Destination's Name, Mailing Address & Telephone Number: ES & J Enterprises Inc.
1555 Holland Rd Autryville, N.C 28318 (910) 567-6138

US EPA ID Number:_____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated soil non-hazardous	01	DT	32890	lbs
20.56 Tons.			41120	
(22 Tons min)				

Container/Tag Number:
Lab: Tk # 4 Tag # ZB 29332

Profile #:

Additional Information and Discrepancy Indication:
COL # 547 4447 Gross weight # 71200

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Bobby Rowe	Bobby Rowe	7/29/04
Accepting Facility	Signature:	Date:
ES & J	Rick Upm	7.29.04

Return Original form to Generator

☆ U.S. GOVERNMENT PRINTING OFFICE: 1996—743-497

Marine Corps Base, Camp Lejeune 04598
Non-Hazardous Waste Shipping Document

Document #: _____

Site: Tarawa Terrace

Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES + J Enterprises Inc
1555 Holland Rd Autryville N.C. 28318 (910) 567 6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: ES + J Enterprises Inc.
1555 Holland Rd Autryville N.C. 28318 (910) 567-6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated soil non-hazardous	OC1	DT	79,800	lbs
23.18 Tons			46360	

Container/Tag Number:
Lab: Trk# 6 Tag# ZB 29346

Profile #:

Additional Information and Discrepancy Indication:
CDL# 2944183NC weight = 79,800 lbs

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID Cox	David Cox	7-29-04
Transporter's Name DARRELL Smith	Signature: Darrell Smith	Date: 7-29-04
Accepting Facility	Signature:	Date:
ES & J.	Rick Winn	7-29-04

Return Original form to Generator

☆U.S. GOVERNMENT PRINTING OFFICE: 1996—743-497

Marine Corps Base, Camp Lejeune 04599
Non-Hazardous Waste Shipping Document

Document #: _____

Site: Tarawa Terrace

Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES+J Enterprises Inc
1555 Holland Rd Autryville N.C 28318 (910) 567-6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: ES+J Enterprise Inc
1555 Holland Rd Autryville MC, 28318 (910) 567-6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated soil non-hazardous 23.72 Tons,	001	DT	79860	lbs
			47440	

Container/Tag Number:
Lab: Tnk # T3 Tag # ZB28641

Profile #:

Additional Information and Discrepancy Indication:
PO- #20132696 weight 79,860 lbs

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
David Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Larry E. Parks	Larry E. Parks	7-29-04
Accepting Facility	Signature:	Date:
ES & J	Rick Winn	7-29-04

Return Original form to Generator

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Marine Corps Base, Camp Lejeune
Non-Hazardous Waste Shipping Document

04600

Document #:_____

Site: Terawa Terrace

Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES+J enterprises Inc.
1555 Holland Rd Autryville N.C. 28318 (910) 567 6138

US EPA ID Number:_____

Destination's Name, Mailing Address & Telephone Number: ES+J Enterprises Inc
1555 Holland Rd Autryville N.C. 28318 (910) 567 6138

US EPA ID Number:_____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH contaminent soil non-hazardous	001	BT	80000	lbs
25.3 Tons.			50600	

Container/Tag Number:
Lab: Trk # 4 Trc # ZB 29332

Profile #:

Additional Information and Discrepancy Indication:
COC # 5474447 weight = 80000 lbs

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
David Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Bobby Rowe	Bobby Rowe	7/29/04
Accepting Facility	Signature:	Date:
ESEJ	Rick [illegible]	7-2004

Return Original form to Generator

☆U.S. GOVERNMENT PRINTING OFFICE: 1998—743-497

Marine Corps Base, Camp Lejeune 04601
Non-Hazardous Waste Shipping Document

Document #:_____

Site: TARAWA Terrace | Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ESJ Enterprises Inc.
1555 Holland Rd Autryville N.C 28318 (910)567-6158

US EPA ID Number:

Destination's Name, Mailing Address & Telephone Number: ESJ Enterprises Inc
1555 Holland Rd Autryville N.C 28318 (910-567-6138

US EPA ID Number:

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated Soil Non-Hazardous	001	PT	79800	LBS
39.25 Tons			48500	LBS

Container/Tag Number:
Lab: Tk # 160 TAS # ZB 27929

Profile #:

Additional Information and Discrepancy Indication:
CDL # 3753391 weight = 79,800

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Johnny Tanner	Johnny Tanner	7-29-04
Accepting Facility	Signature:	Date:
Rick Wms. ESEJ	Rick Wms	7.2904

Return Original form to Generator

☆U.S. GOVERNMENT PRINTING OFFICE: 1996—743-497

Marine Corps Base, Camp Lejeune 04602
Non-Hazardous Waste Shipping Document

Document #: _____

Site: Terawa Terrace | Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: E S & J Enterprises . Inc
1555 Holland Rd. Autryville N.C. 28318 (910) 567-6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: E S & J Enterprises, Inc
1555 Holland Rd Autryville N.C. 28318 (910) 567-6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated soil - non hazardous	01	DT	80000	lbs

Container/Tag Number:
Lab: TRK # 161 Tag # ZB 27927

Profile #:

Additional Information and Discrepancy Indication:
CDL # 5420419 weight = 80,000

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Lloyd Stevens	[signature]	7-29-04
Accepting Facility	Signature:	Date:
ESEJ	Rick Winn	7-29-04

Return Original form to Generator

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Marine Corps Base, Camp Lejeune 04606
Non-Hazardous Waste Shipping Document

Document #: _____

Site: Terawa Terrace

Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES & J Enterprises Inc.
1555 Holland Rd Autryille N.C. 28318 (910) 567 6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: ES+J Enterprises Inc
1555 Holland Rd autryille N.C. 28318 (910) 567 6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
TPH Contaminated Soil non-hazardous	004	DT	45340	lbs
24.01 Tons,			48020	

Container/Tag Number:
Lab: Tnk # 160 Tag # ZB 27929

Profile #:

Additional Information and Discrepancy Indication:
COL # 3753391 Gross weight = 78280

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID COX	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Johnny Tanner	Johnny Tanner	7-29-04
Accepting Facility	Signature:	Date:
ES & J	Rick Winn	7-29-04

Return Original form to Generator

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Marine Corps Base, Camp Lejeune
Non-Hazardous Waste Shipping Document

04607

Document #: _____

Site: Terawa Terrace | Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES & J Enterprises Inc
1555 Holland Rd Autryville N.C 28318 (910) 567 6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: ES&J Enterprises Inc
1555 Holland Rd Autryville N.C 28318 (910) 567 6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers Number	Containers Type	Total Quantity	Units
T&H contaminated soil non-hazardous	001	DT	35260	lbs
18.94 Tons (22 TON min)			37880	

Container/Tag Number:
Lab: Tnk # 6 Tag # ZB 29346

Profile #:

Additional Information and Discrepancy Indication:
Cnt # 2:44183 Gross weight =

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name DARRELL Smith	Signature: Darrell Smith	Date: 7.29.04
DAVID Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Accepting Facility	Signature:	Date:
ES & J	Reid Wm	7.29.04

Return Original form to Generator

☆ U.S. GOVERNMENT PRINTING OFFICE: 1996—743-497

Marine Corps Base, Camp Lejeune 04609
Non-Hazardous Waste Shipping Document

Document #: _____

Site: Terawa Terrace | Page 1 of

Generator's Name & Mailing Address: COMMANDING GENERAL
AC/S, I&E (EMD)
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NC 28542-0004

US EPA ID Number: NC6170022580

Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: ES&J Enterprises Inc
1555 Holland Rd. Autryille, N.C. 28318 (910) 567-6138

US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: ES&J Enterprises Inc
1555 Holland Rd. Autryille N.C. 28318 (910) 567-6138

US EPA ID Number: _____

Waste Shipping Name and Description	Containers Number	Containers Type	Total Quantity	Units
TPH contaminated soil non hazardous	001	DT	22840	lbs
1391 Tons (22 Tons min)			27820	

Container/Tag Number:
Lab: Trk # T3 Tag # ZB 28641

Profile #:

Additional Information and Discrepancy Indication:
001 #20132696

GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
DAVID Cox	David Cox	7-29-04
Transporter's Name	Signature:	Date:
Larry E. Parks	Larry E. Parks	7-29-04
Accepting Facility	Signature:	Date:
ES&J	Rik Wm	7-29-04

Return Original form to Generator

☆ U.S. GOVERNMENT PRINTING OFFICE: 1998—743-497

WASTE INDUSTRIES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

04603 HDC

If waste is asbestos waste, complete Sections I, II, III, and IV.
If waste is NOT asbestos waste, complete only Sections I, II, and III.

No. 600591

Section I. GENERATOR (Generator completes all of Section I)

a. Generator Name: COMMANDING GENERAL ACIS
PSC BOX 20004
c. Address: CAMP LEJEUNE, NC
910-451-1482

b. Generating Location: COMMANDING GENERAL ACIS
PSC BOX 20004
d. Address: CAMP LEJEUNE, NC
910-451-1482

e. Phone No.: _____ f. Phone No.: _____

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: GENE JONES h. Owner's Phone No.: _____

i. WI WASTE CODE: 2 1 | D 0 5 0 7 | E3-4037 | Containers

CONCRETE CONTAMINATED W/ TPH

j. Description of Waste: _____

k. Quantity: 55220 | Units: P | No.: 01 | TYPE: T

45860

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M^3 - CUBIC METERS
Y^3 - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

K David Cox — David Cox — 07/29/04

Generator Authorized Agent Name / Signature / Shipment Date

Section II. TRANSPORTER (Generator completes all; Transporter I completes a-g; Transporter II completes h-n)

TRANSPORTER I

a. Name: MACGRADING TRUCKING
b. Address: PO BOX 376 AUTRYVILLE, NC 28318
c. Driver Name/Title: 910-531-4719 Gene Timberlake (PRINT / TYPE)
d. Phone No.: _____ e. Truck No.: 41
f. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials.
g. _____ (Driver Signature) 07/29/04 (Shipment Date)

TRANSPORTER II

h. Name: _____
i. Address: _____
j. Driver Name/Title: _____ (PRINT / TYPE)
k. Phone No.: _____ l. Truck No.: _____
m. Vehicle License No./State: _____
Acknowledgement of Receipt of Materials.
n. _____ (Driver Signature) _____ (Shipment Date)

Section III. DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: SAMPSON CO. LANDFILL
b. Physical Address: 7434 ROSEBORO HWY. ROSEBORO, NC 28382
c. Phone No.: 910-525-4132
d. Mailing Address: 7434 ROSEBORO HWY ROSEBORO, NC 28382

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. SAMPSON CO. LANDFILL — _____ — 07/29/04

Name of Authorized Agent / Signature / Receipt Date

Section IV. ASBESTOS (Generator complete a-d, f-g; Operator* completes e-g)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
c. Operator's* Address: _____
d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____

WASTE INDUSTRIES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

04604

If waste is asbestos waste, complete Sections I, II, III, and IV.
If waste is NOT asbestos waste, complete only Sections I, II, and III.

No. 600592

Section I. GENERATOR (Generator completes all of Section I.)

a. Generator Name: COMMANDING GENERAL ATTN

b. Generating Location: COMMANDING GENERAL AC/S

c. Address: PSC BOX 20004
CAMP LEJUENE, NC
910 451-1482

d. Address: PSC BOX 20004
CAMP LEJUENE, NC
910-451-1482

e. Phone No.:

f. Phone No.:

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: GENE JONES

h. Owner's Phone No.:

i. WI WASTE CODE: 2 1 | 3 0 6 | 7 | E3-490

j. Description of Waste: CONCRETE CONTAMINATED W/ TPH

k. Quantity: 40460 | Units: P | No. of Containers: 01 | TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M^3 - CUBIC METERS
Y^3 - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

DAVID COX — Generator Authorized Agent Name

Signature

07 29 04 — Shipment Date

Section II TRANSPORTER (Generator completes a-g, Transporter I completes e-g, Transporter II completes h-n.)

TRANSPORTER I

a. Name: MACGRADING TRUCKING

b. Address: PO BOX 376
AUTRYVILLE, NC 28318

c. Driver Name/Title: Robert W. Williams — PRINT / TYPE
910-231-4713

d. Phone No.:

e. Truck No.: 45

f. Vehicle License No./State:

Acknowledgement of Receipt of Materials.

g. Driver Signature

07 29 04 — Shipment Date

TRANSPORTER II

h. Name:

i. Address:

j. Driver Name/Title: — PRINT / TYPE

k. Phone No.:

l. Truck No.:

m. Vehicle License No./State:

Acknowledgement of Receipt of Materials.

n. Driver Signature

Shipment Date

Section III DESTINATION (Generator completes a-d, destination site completes e-f.)

a. Site Name: SAMPSON CO. LANDFILL

c. Phone No.: 910-526-4152

b. Physical Address: 1404 ROWAN MILL ROAD, CLINTON, NC 28328

d. Mailing Address: 1404 ROWAN MILL ROAD, CLINTON, NC 28328

e. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. SAMPSON CO. LANDFILL — Name of Authorized Agent

Signature

Receipt Date

Section IV ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name:

b. Operator's* Phone No.:

c. Operator's* Address:

d. Special Handling Instructions and additional information:

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title

Signature

Shipment Date

APPENDIX G

CONFIRMATION SOIL SAMPLE LABORATORY ANALYTICAL REPORTS

Southeast
ACCUTEST.
Laboratories

06/17/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2457

102463

Accutest Job Number: F24532

Sampling Date: 06/02/04

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 50

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24532

Camp Lejeune-TT2457
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F24532-1	06/02/04	12:30	MM	06/03/04	SO	Soil	2457-F2457-001
F24532-2	06/02/04	12:40	MM	06/03/04	SO	Soil	2457-NW-002
F24532-3	06/02/04	12:50	MM	06/03/04	SO	Soil	2457-EW-003
F24532-4	06/02/04	13:00	MM	06/03/04	SO	Soil	2457-WW-004
F24532-5	06/02/04	13:10	MM	06/03/04	SO	Soil	2457-SW-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8260B SW846 5035	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025887.D	1	06/10/04	NAF	06/03/04 13:17	n/a	VH967
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	3200	1600	ug/kg	
71-43-2	Benzene	ND	320	130	ug/kg	
75-27-4	Bromodichloromethane	ND	320	130	ug/kg	
75-25-2	Bromoform	ND	320	130	ug/kg	
108-90-7	Chlorobenzene	ND	320	130	ug/kg	
75-00-3	Chloroethane	ND	320	130	ug/kg	
67-66-3	Chloroform	ND	320	130	ug/kg	
75-15-0	Carbon disulfide	ND	320	130	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	130	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	130	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	320	190	ug/kg	
107-06-2	1,2-Dichloroethane	ND	320	130	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	130	ug/kg	
124-48-1	Dibromochloromethane	ND	320	130	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	320	130	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	130	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	320	130	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	130	ug/kg	
100-41-4	Ethylbenzene	135	320	130	ug/kg	J
591-78-6	2-Hexanone	ND	1600	630	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	1600	630	ug/kg	
74-83-9	Methyl bromide	ND	320	130	ug/kg	
74-87-3	Methyl chloride	ND	320	130	ug/kg	
75-09-2	Methylene chloride	ND	630	320	ug/kg	
78-93-3	Methyl ethyl ketone	ND	1600	630	ug/kg	
100-42-5	Styrene	ND	320	130	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	130	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	130	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	130	ug/kg	
127-18-4	Tetrachloroethylene	ND	320	130	ug/kg	
108-88-3	Toluene	ND	320	130	ug/kg	
79-01-6	Trichloroethylene	ND	320	130	ug/kg	

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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8260B SW846 5035	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	320	160	ug/kg	
1330-20-7	Xylene (total)	ND	950	280	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		78-123%
2037-26-5	Toluene-D8	99%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	95%		74-125%

(a) Methanol extract analysis required due to matrix interference (non-target analytes present above calibration range). En core sampler was not properly capped; results are considered minimum values.

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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021860.D	1	06/09/04	ME	06/08/04	OP10619	SL1173
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1100	650	ug/kg	
95-57-8	2-Chlorophenol	ND	220	44	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	44	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	44	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	44	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	87	ug/kg	
95-48-7	2-Methylphenol	ND	220	44	ug/kg	
	3&4-Methylphenol	ND	220	44	ug/kg	
88-75-5	2-Nitrophenol	ND	220	44	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	440	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	440	ug/kg	
108-95-2	Phenol	ND	220	44	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	44	ug/kg	
83-32-9	Acenaphthene	ND	220	220	ug/kg	
208-96-8	Acenaphthylene	ND	220	44	ug/kg	
120-12-7	Anthracene	ND	220	44	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	44	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	44	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	44	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	87	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	44	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	44	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	440	110	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	44	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	44	ug/kg	
106-47-8	4-Chloroaniline	ND	870	330	ug/kg	
86-74-8	Carbazole	ND	220	44	ug/kg	
218-01-9	Chrysene	ND	220	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	44	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	87	ug/kg	

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RL = Reporting Limit
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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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	44	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	44	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	44	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	87	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	87	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	220	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	87	ug/kg	
132-64-9	Dibenzofuran	72.1	220	44	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	440	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	440	220	ug/kg	
84-66-2	Diethyl phthalate	ND	440	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	440	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	220	ug/kg	
206-44-0	Fluoranthene	ND	220	44	ug/kg	
86-73-7	Fluorene	239	220	44	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	44	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	87	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	87	ug/kg	
67-72-1	Hexachloroethane	ND	220	87	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	87	ug/kg	
78-59-1	Isophorone	ND	220	44	ug/kg	
91-57-6	2-Methylnaphthalene	1050	220	44	ug/kg	
88-74-4	2-Nitroaniline	ND	440	110	ug/kg	
99-09-2	3-Nitroaniline	ND	440	110	ug/kg	
100-01-6	4-Nitroaniline	ND	440	110	ug/kg	
91-20-3	Naphthalene	174	220	44	ug/kg	J
98-95-3	Nitrobenzene	ND	220	44	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	87	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	44	ug/kg	
85-01-8	Phenanthrene	459	220	44	ug/kg	
129-00-0	Pyrene	ND	220	87	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		45-114%
4165-62-2	Phenol-d5	79%		44-124%
118-79-6	2,4,6-Tribromophenol	87%		50-128%

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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		41-123%
321-60-8	2-Fluorobiphenyl	74%		46-122%
1718-51-0	Terphenyl-d14	91%		45-135%

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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013548.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.14 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	320	130	ug/kg	
100-41-4	Ethylbenzene	ND	320	160	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	960	320	ug/kg	
91-20-3	Naphthalene	705	640	350	ug/kg	
108-88-3	Toluene	ND	960	320	ug/kg	
	m,p-Xylene	ND	1300	480	ug/kg	
95-47-6	o-Xylene	ND	640	320	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4800	2600	ug/kg	
	C9- C12 Aliphatics (Unadj.)	28300	3500	1900	ug/kg	
	C9- C10 Aromatics (Unadj.)	18000	1300	640	ug/kg	
	C5- C8 Aliphatics	ND	4800	2600	ug/kg	
	C9- C12 Aliphatics	10300	3500	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	92%		70-130%
460-00-4	BFB	100%		70-130%

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:	2457-F2457-001		
Lab Sample ID:	F24532-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	76.2
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13763.D	4	06/16/04	SM	06/07/04	OP10612	GZF639
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1700	680	ug/kg	
208-96-8	Acenaphthylene	ND	1700	680	ug/kg	
120-12-7	Anthracene	ND	1700	680	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1700	680	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1700	680	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1700	680	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1700	680	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1700	680	ug/kg	
218-01-9	Chrysene	ND	1700	680	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1700	680	ug/kg	
206-44-0	Fluoranthene	ND	1700	680	ug/kg	
86-73-7	Fluorene	ND	1700	680	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1700	680	ug/kg	
91-57-6	2-Methylnaphthalene	1700	1700	680	ug/kg	
91-20-3	Naphthalene	ND	1700	680	ug/kg	
85-01-8	Phenanthrene	ND	1700	680	ug/kg	
129-00-0	Pyrene	ND	1700	680	ug/kg	
	C11-C22 Aromatics (Unadj.)	129000	34000	34000	ug/kg	
	C9-C18 Aliphatics	280000	34000	34000	ug/kg	
	C11-C22 Aromatics	126000	34000	34000	ug/kg	
	C19-C36 Aliphatics	84700	34000	34000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	72%		40-140%
580-13-2	2-Bromonaphthalene	84%		40-140%
84-15-1	o-Terphenyl	91%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%

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:	2457-NW-002		
Lab Sample ID:	F24532-2	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	78.5
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013549.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.37 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	890	300	ug/kg	
91-20-3	Naphthalene	490	590	330	ug/kg	J
108-88-3	Toluene	ND	890	300	ug/kg	
	m,p-Xylene	ND	1200	440	ug/kg	
95-47-6	o-Xylene	ND	590	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4400	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	23300	3300	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	14800	1200	590	ug/kg	
	C5- C8 Aliphatics	ND	4400	2400	ug/kg	
	C9- C12 Aliphatics	8520	3300	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	78%		70-130%
460-00-4	BFB	79%		70-130%

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:	2457-NW-002		
Lab Sample ID:	F24532-2	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.5
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13718.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	23200	8300	8300	ug/kg	
	C9-C18 Aliphatics	42600	8300	8300	ug/kg	
	C11-C22 Aromatics	23200	8300	8300	ug/kg	
	C19-C36 Aliphatics	15600	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	44%		40-140%
580-13-2	2-Bromonaphthalene	97%		40-140%
84-15-1	o-Terphenyl	76%		40-140%
321-60-8	2-Fluorobiphenyl	83%		40-140%

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:	2457-EW-003		
Lab Sample ID:	F24532-3	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	78.9
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013551.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.30 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	370	150	ug/kg	
100-41-4	Ethylbenzene	ND	370	180	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1100	370	ug/kg	
91-20-3	Naphthalene	ND	740	410	ug/kg	
108-88-3	Toluene	ND	1100	370	ug/kg	
	m,p-Xylene	ND	1500	550	ug/kg	
95-47-6	o-Xylene	ND	740	370	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	5500	2900	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1500	740	ug/kg	
	C5- C8 Aliphatics	ND	5500	2900	ug/kg	
	C9- C12 Aliphatics	ND	4100	2200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	90%		70-130%

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:	2457-EW-003		
Lab Sample ID:	F24532-3	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.9
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13719.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	352	420	170	ug/kg	J
56-55-3	Benzo(a)anthracene	465	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	409	420	170	ug/kg	J
205-99-2	Benzo(b)fluoranthene	464	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	221	420	170	ug/kg	J
207-08-9	Benzo(k)fluoranthene	321	420	170	ug/kg	J
218-01-9	Chrysene	441	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	1110	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	235	420	170	ug/kg	J
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	970	420	170	ug/kg	
129-00-0	Pyrene	1130	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	11700	8400	8400	ug/kg	
	C9-C18 Aliphatics	ND	8400	8400	ug/kg	
	C11-C22 Aromatics	ND	8400	8400	ug/kg	
	C19-C36 Aliphatics	ND	8400	8400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	66%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	90%		40-140%
321-60-8	2-Fluorobiphenyl	87%		40-140%

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:	2457-WW-004		
Lab Sample ID:	F24532-4	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	80.3
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013552.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.63 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	110	ug/kg	
100-41-4	Ethylbenzene	ND	280	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	830	280	ug/kg	
91-20-3	Naphthalene	ND	550	300	ug/kg	
108-88-3	Toluene	ND	830	280	ug/kg	
	m,p-Xylene	ND	1100	410	ug/kg	
95-47-6	o-Xylene	ND	550	280	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	2840	3000	1700	ug/kg	J
	C9- C10 Aromatics (Unadj.)	ND	1100	550	ug/kg	
	C5- C8 Aliphatics	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics	2520	3000	1700	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	89%		70-130%

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:	2457-WW-004		
Lab Sample ID:	F24532-4	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	80.3
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13720.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	410	160	ug/kg	
208-96-8	Acenaphthylene	ND	410	160	ug/kg	
120-12-7	Anthracene	ND	410	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	160	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	160	ug/kg	
218-01-9	Chrysene	ND	410	160	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	160	ug/kg	
206-44-0	Fluoranthene	ND	410	160	ug/kg	
86-73-7	Fluorene	ND	410	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	160	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	160	ug/kg	
91-20-3	Naphthalene	ND	410	160	ug/kg	
85-01-8	Phenanthrene	ND	410	160	ug/kg	
129-00-0	Pyrene	ND	410	160	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8200	8200	ug/kg	
	C9-C18 Aliphatics	ND	8200	8200	ug/kg	
	C11-C22 Aromatics	ND	8200	8200	ug/kg	
	C19-C36 Aliphatics	ND	8200	8200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	41%		40-140%
580-13-2	2-Bromonaphthalene	90%		40-140%
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%

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:	2457-SW-005		
Lab Sample ID:	F24532-5	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	81.1
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013553.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.33 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	290	120	ug/kg	
100-41-4	Ethylbenzene	ND	290	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	870	290	ug/kg	
91-20-3	Naphthalene	ND	580	320	ug/kg	
108-88-3	Toluene	ND	870	290	ug/kg	
	m,p-Xylene	ND	1200	430	ug/kg	
95-47-6	o-Xylene	ND	580	290	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3200	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	580	ug/kg	
	C5- C8 Aliphatics	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics	ND	3200	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	91%		70-130%

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:	2457-SW-005		
Lab Sample ID:	F24532-5	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	81.1
Project:	Camp Lejeune-TT2457		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13721.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	410	160	ug/kg	
208-96-8	Acenaphthylene	ND	410	160	ug/kg	
120-12-7	Anthracene	ND	410	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	160	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	160	ug/kg	
218-01-9	Chrysene	ND	410	160	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	160	ug/kg	
206-44-0	Fluoranthene	ND	410	160	ug/kg	
86-73-7	Fluorene	ND	410	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	160	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	160	ug/kg	
91-20-3	Naphthalene	ND	410	160	ug/kg	
85-01-8	Phenanthrene	ND	410	160	ug/kg	
129-00-0	Pyrene	ND	410	160	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8100	8100	ug/kg	
	C9-C18 Aliphatics	ND	8100	8100	ug/kg	
	C11-C22 Aromatics	ND	8100	8100	ug/kg	
	C19-C36 Aliphatics	ND	8100	8100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	93%		40-140%
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

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

Southeast
ACCUTEST.
Laboratories

05/21/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2459

102463

Accutest Job Number: F24237

Sampling Date: 05/18/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 21

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24237

Camp Lejeune-TT2459
Project No: 102463

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F24237-1	05/18/04	11:40 MM	05/19/04	SO	Soil	2459-NB-001
F24237-2	05/18/04	11:50 MM	05/19/04	SO	Soil	2459-SB-002
F24237-3	05/18/04	00:00 MM	05/19/04	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2459-NB-001		
Lab Sample ID:	F24237-1	Date Sampled:	05/18/04
Matrix:	SO - Soil	Date Received:	05/19/04
Method:	SW846 8015 SW846 5035	Percent Solids:	79.9
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013255.D	1	05/20/04	NJ	05/19/04 12:45	n/a	GUV795
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.87 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	31.0	5.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94% [a]		62-135%
460-00-4	4-Bromofluorobenzene	60% [b]		62-135%
98-08-8	aaa-Trifluorotoluene	92%		65-118%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2459-NB-001		
Lab Sample ID:	F24237-1	Date Sampled:	05/18/04
Matrix:	SO - Soil	Date Received:	05/19/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	79.9
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13394.D	20	05/20/04	SM	05/20/04	OP10482	GZF621
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	800	200	120	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2459-SB-002		
Lab Sample ID:	F24237-2	Date Sampled:	05/18/04
Matrix:	SO - Soil	Date Received:	05/19/04
Method:	SW846 8015 SW846 5035	Percent Solids:	80.4
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013245.D	1	05/20/04	NJ	05/19/04 12:45	n/a	GUV795
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.69 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	74.8	55	27	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		62-135%
98-08-8	aaa-Trifluorotoluene	85%		65-118%

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:	2459-SB-002		
Lab Sample ID:	F24237-2	Date Sampled:	05/18/04
Matrix:	SO - Soil	Date Received:	05/19/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	80.4
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13395.D	40	05/20/04	SM	05/20/04	OP10482	GZF621
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3280	410	250	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	TRIP BLANK		
Lab Sample ID:	F24237-3	Date Sampled:	05/18/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/19/04
Method:	SW846 8015	Percent Solids:	n/a
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH007500.D	1	05/19/04	NJ	n/a	n/a	GHH341
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-127%
98-08-8	aaa-Trifluorotoluene	73%		65-124%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Southeast
ACCUTEST.
Laboratories

06/10/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2459

102463

Accutest Job Number: F24297

Sampling Date: 05/20/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 70

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24297

Camp Lejeune-TT2459
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F24297-1	05/20/04	11:35	MM	05/21/04	SO	Soil	2459-F-001
F24297-2	05/20/04	11:40	MM	05/21/04	SO	Soil	2459-NW-002
F24297-3	05/20/04	11:45	MM	05/21/04	SO	Soil	2459-EW-003
F24297-4	05/20/04	11:50	MM	05/21/04	SO	Soil	2459-WW-004
F24297-5	05/20/04	11:55	MM	05/21/04	SO	Soil	2459-SW-005
F24297-6	05/20/04	12:00	MM	05/21/04	SO	Soil	2459-SWD-006
F24297-7	05/20/04	00:00	MM	05/21/04	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025688.D	1	06/01/04	NAF	05/21/04 13:50	n/a	VH959
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.37 g	5.0 ml	25.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9200	4600	ug/kg	
71-43-2	Benzene	ND	920	370	ug/kg	
75-27-4	Bromodichloromethane	ND	920	370	ug/kg	
75-25-2	Bromoform	ND	920	370	ug/kg	
108-90-7	Chlorobenzene	ND	920	370	ug/kg	
75-00-3	Chloroethane	ND	920	370	ug/kg	
67-66-3	Chloroform	ND	920	370	ug/kg	
75-15-0	Carbon disulfide	ND	920	370	ug/kg	
56-23-5	Carbon tetrachloride	ND	920	370	ug/kg	
75-34-3	1,1-Dichloroethane	ND	920	370	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	920	550	ug/kg	
107-06-2	1,2-Dichloroethane	ND	920	370	ug/kg	
78-87-5	1,2-Dichloropropane	ND	920	370	ug/kg	
124-48-1	Dibromochloromethane	ND	920	370	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	920	370	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	920	370	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	920	370	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	920	370	ug/kg	
100-41-4	Ethylbenzene	3680	920	370	ug/kg	
591-78-6	2-Hexanone	ND	4600	1800	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	4600	1800	ug/kg	
74-83-9	Methyl bromide	ND	920	370	ug/kg	
74-87-3	Methyl chloride	ND	920	370	ug/kg	
75-09-2	Methylene chloride	ND	1800	1800	ug/kg	
78-93-3	Methyl ethyl ketone	ND	4600	1800	ug/kg	
100-42-5	Styrene	ND	920	370	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	920	370	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	920	370	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	920	370	ug/kg	
127-18-4	Tetrachloroethylene	ND	920	370	ug/kg	
108-88-3	Toluene	ND	920	370	ug/kg	
79-01-6	Trichloroethylene	ND	920	370	ug/kg	

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:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	920	460	ug/kg	
1330-20-7	Xylene (total)	3140	2800	830	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		78-123%
2037-26-5	Toluene-D8	117%		71-137%
460-00-4	4-Bromofluorobenzene	115%		61-157%
17060-07-0	1,2-Dichloroethane-D4	94%		74-125%

(a) Methanol extract analysis required due to matrix interference (internal and surrogate standard failure).

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021672.D	20	05/27/04	ME	05/25/04	OP10516	SL1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	19000	11000	ug/kg	
95-57-8	2-Chlorophenol	ND	3800	760	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3800	760	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3800	760	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3800	760	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	19000	7600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	7600	1500	ug/kg	
95-48-7	2-Methylphenol	ND	3800	760	ug/kg	
	3&4-Methylphenol	ND	3800	760	ug/kg	
88-75-5	2-Nitrophenol	ND	3800	760	ug/kg	
100-02-7	4-Nitrophenol	ND	19000	7600	ug/kg	
87-86-5	Pentachlorophenol	ND	19000	7600	ug/kg	
108-95-2	Phenol	ND	3800	760	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3800	760	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3800	760	ug/kg	
83-32-9	Acenaphthene	2370	3800	760	ug/kg	J
208-96-8	Acenaphthylene	ND	3800	760	ug/kg	
120-12-7	Anthracene	ND	3800	760	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3800	760	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3800	760	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3800	760	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3800	1500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3800	760	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	3800	760	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	7600	1900	ug/kg	
100-51-6	Benzyl Alcohol	ND	3800	760	ug/kg	
91-58-7	2-Chloronaphthalene	ND	3800	760	ug/kg	
106-47-8	4-Chloroaniline	ND	15000	5700	ug/kg	
86-74-8	Carbazole	ND	3800	760	ug/kg	
218-01-9	Chrysene	ND	3800	760	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	3800	760	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	3800	1500	ug/kg	

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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:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	3800	760	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	3800	760	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	3800	760	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3800	760	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3800	760	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3800	3800	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3800	1500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	7600	3800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3800	1500	ug/kg	
132-64-9	Dibenzofuran	2160	3800	760	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	7600	1900	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	7600	3800	ug/kg	
84-66-2	Diethyl phthalate	ND	7600	1900	ug/kg	
131-11-3	Dimethyl phthalate	ND	7600	1900	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	7600	3800	ug/kg	
206-44-0	Fluoranthene	ND	3800	760	ug/kg	
86-73-7	Fluorene	4480	3800	760	ug/kg	
118-74-1	Hexachlorobenzene	ND	3800	760	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3800	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3800	1500	ug/kg	
67-72-1	Hexachloroethane	ND	3800	1500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3800	1500	ug/kg	
78-59-1	Isophorone	ND	3800	760	ug/kg	
91-57-6	2-Methylnaphthalene	53400	3800	760	ug/kg	
88-74-4	2-Nitroaniline	ND	7600	1900	ug/kg	
99-09-2	3-Nitroaniline	ND	7600	1900	ug/kg	
100-01-6	4-Nitroaniline	ND	7600	1900	ug/kg	
91-20-3	Naphthalene	16400	3800	760	ug/kg	
98-95-3	Nitrobenzene	ND	3800	760	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	3800	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	3800	3800	ug/kg	
85-01-8	Phenanthrene	8340	3800	760	ug/kg	
129-00-0	Pyrene	ND	3800	1500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3800	760	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [a]		45-114%
4165-62-2	Phenol-d5	0% [a]		44-124%
118-79-6	2,4,6-Tribromophenol	0% [a]		50-128%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	0% [a]		41-123%
321-60-8	2-Fluorobiphenyl	0% [a]		46-122%
1718-51-0	Terphenyl-d14	0% [a]		45-135%

(a) Outside control limits due to dilution.

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:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013499.D	1	06/04/04	NJ	n/a	n/a	GUV810
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.67 g	5.0 ml	1.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	26000	10000	ug/kg	
100-41-4	Ethylbenzene	ND	26000	13000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	78000	26000	ug/kg	
91-20-3	Naphthalene	ND	52000	29000	ug/kg	
108-88-3	Toluene	ND	78000	26000	ug/kg	
	m,p-Xylene	ND	100000	39000	ug/kg	
95-47-6	o-Xylene	ND	52000	26000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	390000	210000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	477000	290000	160000	ug/kg	
	C9- C10 Aromatics (Unadj.)	173000	100000	52000	ug/kg	
	C5- C8 Aliphatics	ND	390000	210000	ug/kg	
	C9- C12 Aliphatics	304000	290000	160000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	157% [a]		70-130%
460-00-4	BFB	138% [a]		70-130%

(a) Outside control limits due to dilution.

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:	2459-F-001		
Lab Sample ID:	F24297-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	85.0
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13535.D	80	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	31000	12000	ug/kg	
208-96-8	Acenaphthylene	ND	31000	12000	ug/kg	
120-12-7	Anthracene	ND	31000	12000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31000	12000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31000	12000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31000	12000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31000	12000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31000	12000	ug/kg	
218-01-9	Chrysene	ND	31000	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31000	12000	ug/kg	
206-44-0	Fluoranthene	ND	31000	12000	ug/kg	
86-73-7	Fluorene	ND	31000	12000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31000	12000	ug/kg	
91-57-6	2-Methylnaphthalene	72200	31000	12000	ug/kg	
91-20-3	Naphthalene	15700	31000	12000	ug/kg	J
85-01-8	Phenanthrene	ND	31000	12000	ug/kg	
129-00-0	Pyrene	ND	31000	12000	ug/kg	
	C11-C22 Aromatics (Unadj.)	2030000	620000	620000	ug/kg	
	C9-C18 Aliphatics	2040000	620000	620000	ug/kg	
	C11-C22 Aromatics	1930000	620000	620000	ug/kg	
	C19-C36 Aliphatics	ND	620000	620000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2459-NW-002		
Lab Sample ID:	F24297-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	76.5
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013535.D	1	06/07/04	NJ	n/a	n/a	GUV812
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.32 g	5.0 ml	50.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	610	250	ug/kg	
100-41-4	Ethylbenzene	369	610	310	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1800	610	ug/kg	
91-20-3	Naphthalene	2480	1200	680	ug/kg	
108-88-3	Toluene	ND	1800	610	ug/kg	
	m,p-Xylene	ND	2500	920	ug/kg	
95-47-6	o-Xylene	ND	1200	610	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	9200	4900	ug/kg	
	C9- C12 Aliphatics (Unadj.)	73000	6800	3700	ug/kg	
	C9- C10 Aromatics (Unadj.)	48200	2500	1200	ug/kg	
	C5- C8 Aliphatics	ND	9200	4900	ug/kg	
	C9- C12 Aliphatics	23800	6800	3700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	94%		70-130%

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:	2459-NW-002		
Lab Sample ID:	F24297-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	76.5
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13536.D	4	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1700	690	ug/kg	
208-96-8	Acenaphthylene	ND	1700	690	ug/kg	
120-12-7	Anthracene	ND	1700	690	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1700	690	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1700	690	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1700	690	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1700	690	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1700	690	ug/kg	
218-01-9	Chrysene	ND	1700	690	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1700	690	ug/kg	
206-44-0	Fluoranthene	ND	1700	690	ug/kg	
86-73-7	Fluorene	ND	1700	690	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1700	690	ug/kg	
91-57-6	2-Methylnaphthalene	2890	1700	690	ug/kg	
91-20-3	Naphthalene	ND	1700	690	ug/kg	
85-01-8	Phenanthrene	ND	1700	690	ug/kg	
129-00-0	Pyrene	ND	1700	690	ug/kg	
	C11-C22 Aromatics (Unadj.)	98700	34000	34000	ug/kg	
	C9-C18 Aliphatics	221000	34000	34000	ug/kg	
	C11-C22 Aromatics	94200	34000	34000	ug/kg	
	C19-C36 Aliphatics	35300	34000	34000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	76%		40-140%
580-13-2	2-Bromonaphthalene	76%		40-140%
84-15-1	o-Terphenyl	110%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%

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:	2459-EW-003		
Lab Sample ID:	F24297-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	79.9
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013519.D	1	06/05/04	NJ	n/a	n/a	GUV811
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	900	300	ug/kg	
91-20-3	Naphthalene	ND	600	330	ug/kg	
108-88-3	Toluene	ND	900	300	ug/kg	
	m,p-Xylene	ND	1200	450	ug/kg	
95-47-6	o-Xylene	ND	600	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	3670	3300	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	1180	1200	600	ug/kg	J
	C5- C8 Aliphatics	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics	2490	3300	1800	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	84%		70-130%
460-00-4	BFB	83%		70-130%

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:	2459-EW-003		
Lab Sample ID:	F24297-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.9
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13537.D	1	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	410	170	ug/kg	
208-96-8	Acenaphthylene	ND	410	170	ug/kg	
120-12-7	Anthracene	ND	410	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	170	ug/kg	
218-01-9	Chrysene	ND	410	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	170	ug/kg	
206-44-0	Fluoranthene	ND	410	170	ug/kg	
86-73-7	Fluorene	ND	410	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	170	ug/kg	
91-20-3	Naphthalene	ND	410	170	ug/kg	
85-01-8	Phenanthrene	ND	410	170	ug/kg	
129-00-0	Pyrene	ND	410	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	9780	8300	8300	ug/kg	
	C9-C18 Aliphatics	17100	8300	8300	ug/kg	
	C11-C22 Aromatics	9680	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	91%		40-140%
84-15-1	o-Terphenyl	93%		40-140%
321-60-8	2-Fluorobiphenyl	93%		40-140%

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:	2459-WW-004		
Lab Sample ID:	F24297-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	79.1
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013520.D	1	06/05/04	NJ	n/a	n/a	GUV811
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	3100	1200	ug/kg	
100-41-4	Ethylbenzene	2030	3100	1500	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	9200	3100	ug/kg	
91-20-3	Naphthalene	13000	6100	3400	ug/kg	
108-88-3	Toluene	ND	9200	3100	ug/kg	
	m,p-Xylene	ND	12000	4600	ug/kg	
95-47-6	o-Xylene	ND	6100	3100	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	46000	24000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	306000	34000	18000	ug/kg	
	C9- C10 Aromatics (Unadj.)	205000	12000	6100	ug/kg	
	C5- C8 Aliphatics	ND	46000	24000	ug/kg	
	C9- C12 Aliphatics	96600	34000	18000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	79%		70-130%
460-00-4	BFB	71%		70-130%

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:	2459-WW-004		
Lab Sample ID:	F24297-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.1
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13538.D	40	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	17000	6700	ug/kg	
208-96-8	Acenaphthylene	ND	17000	6700	ug/kg	
120-12-7	Anthracene	ND	17000	6700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	17000	6700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	17000	6700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	17000	6700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	17000	6700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	17000	6700	ug/kg	
218-01-9	Chrysene	ND	17000	6700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	17000	6700	ug/kg	
206-44-0	Fluoranthene	ND	17000	6700	ug/kg	
86-73-7	Fluorene	ND	17000	6700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	17000	6700	ug/kg	
91-57-6	2-Methylnaphthalene	44200	17000	6700	ug/kg	
91-20-3	Naphthalene	9840	17000	6700	ug/kg	J
85-01-8	Phenanthrene	7100	17000	6700	ug/kg	J
129-00-0	Pyrene	ND	17000	6700	ug/kg	
	C11-C22 Aromatics (Unadj.)	1100000	330000	330000	ug/kg	
	C9-C18 Aliphatics	3750000	330000	330000	ug/kg	
	C11-C22 Aromatics	1030000	330000	330000	ug/kg	
	C19-C36 Aliphatics	520000	330000	330000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2459-SW-005		
Lab Sample ID:	F24297-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	78.8
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013504.D	1	06/04/04	NJ	n/a	n/a	GUV810
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.71 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	110	ug/kg	
100-41-4	Ethylbenzene	ND	280	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	830	280	ug/kg	
91-20-3	Naphthalene	ND	560	310	ug/kg	
108-88-3	Toluene	ND	830	280	ug/kg	
	m,p-Xylene	ND	1100	420	ug/kg	
95-47-6	o-Xylene	ND	560	280	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4200	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	560	ug/kg	
	C5- C8 Aliphatics	ND	4200	2200	ug/kg	
	C9- C12 Aliphatics	ND	3100	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	90%		70-130%

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:	2459-SW-005		
Lab Sample ID:	F24297-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.8
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13539.D	1	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8400	8400	ug/kg	
	C9-C18 Aliphatics	13900	8400	8400	ug/kg	
	C11-C22 Aromatics	ND	8400	8400	ug/kg	
	C19-C36 Aliphatics	8610	8400	8400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	58%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	87%		40-140%

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:	2459-SWD-006		
Lab Sample ID:	F24297-6	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	78.1
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013505.D	1	06/04/04	NJ	n/a	n/a	GUV810
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	910	300	ug/kg	
91-20-3	Naphthalene	ND	600	330	ug/kg	
108-88-3	Toluene	ND	910	300	ug/kg	
	m,p-Xylene	ND	1200	450	ug/kg	
95-47-6	o-Xylene	ND	600	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3300	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	600	ug/kg	
	C5- C8 Aliphatics	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics	ND	3300	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	91%		70-130%

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:	2459-SWD-006		
Lab Sample ID:	F24297-6	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.1
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF13540.D	1	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2	ZF13696.D	1	06/10/04	SM	06/07/04	OP10612	GZF636

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2	30.1 g	2.0 ml

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	430	170	ug/kg	
208-96-8	Acenaphthylene	ND [b]	430	170	ug/kg	
120-12-7	Anthracene	ND [b]	430	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND [b]	430	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND [b]	430	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND [b]	430	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND [b]	430	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND [b]	430	170	ug/kg	
218-01-9	Chrysene	ND [b]	430	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND [b]	430	170	ug/kg	
206-44-0	Fluoranthene	ND [b]	430	170	ug/kg	
86-73-7	Fluorene	ND [b]	430	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND [b]	430	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND [b]	430	170	ug/kg	
91-20-3	Naphthalene	ND [b]	430	170	ug/kg	
85-01-8	Phenanthrene	ND [b]	430	170	ug/kg	
129-00-0	Pyrene	ND [b]	430	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND [b]	8500	8500	ug/kg	
	C9-C18 Aliphatics [c]	9440 [b]	8500	8500	ug/kg	J
	C11-C22 Aromatics	ND [b]	8500	8500	ug/kg	
	C19-C36 Aliphatics	ND [b]	8500	8500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	23%	52%	40-140%
580-13-2	2-Bromonaphthalene	81%	90%	40-140%
84-15-1	o-Terphenyl	31%	82%	40-140%
321-60-8	2-Fluorobiphenyl	82%	89%	40-140%

(a) Confirmation run.
(b) Result is from Run# 2
(c) Estimated value due to contamination from fractionation cartridges.

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:	TRIP BLANK		
Lab Sample ID:	F24297-7	Date Sampled:	05/20/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/21/04
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023770.D	1	06/01/04	KW	n/a	n/a	VC1025
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.50	ug/l	
75-25-2	Bromoform	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F24297-7	Date Sampled:	05/20/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/21/04
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT2459		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		86-115%
17060-07-0	1,2-Dichloroethane-D4	103%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

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:	TRIP BLANK		
Lab Sample ID:	F24297-7	Date Sampled:	05/20/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-TT2459		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013422.D	1	06/02/04	NJ	n/a	n/a	GUV805
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	15	5.0	ug/l	
91-20-3	Naphthalene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	15	5.0	ug/l	
	m,p-Xylene	ND	20	7.5	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	75	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	20	10	ug/l	
	C5- C8 Aliphatics	ND	75	50	ug/l	
	C9- C12 Aliphatics	ND	55	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	110%		70-130%
460-00-4	BFB	104%		70-130%

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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Southeast
ACCUTEST.
Laboratories

05/17/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2461

102463

Accutest Job Number: F24034

Sampling Date: 05/10/04

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 31

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24034

Camp Lejeune-TT2461
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F24034-1	05/10/04	14:15	MM	05/11/04	SO	Soil	2461-NB-001
F24034-2	05/10/04	14:20	MM	05/11/04	SO	Soil	2461-SB-002
F24034-3	05/10/04	16:00	MM	05/11/04	SO	Soil	2463-NB-001
F24034-4	05/10/04	16:10	MM	05/11/04	SO	Soil	2463-SB-002
F24034-5	05/10/04	00:00	MM	05/11/04	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2461-NB-001		
Lab Sample ID:	F24034-1	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 SW846 5035	Percent Solids:	80.7
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013080.D	1	05/11/04	NJ	05/11/04 12:10	n/a	GUV786
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.59 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	88.8	28	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	62%		62-135%
98-08-8	aaa-Trifluorotoluene	86%		65-118%

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:	2461-NB-001		
Lab Sample ID:	F24034-1	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	80.7
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13250.D	40	05/12/04	SM	05/12/04	OP10405	GZF614
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1520	400	240	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2461-SB-002		
Lab Sample ID:	F24034-2	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 SW846 5035	Percent Solids:	78.7
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013081.D	1	05/12/04	NJ	05/11/04 12:10	n/a	GUV786
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.60 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	63.4	28	14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		62-135%
98-08-8	aaa-Trifluorotoluene	86%		65-118%

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:	2461-SB-002		
Lab Sample ID:	F24034-2	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	78.7
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13251.D	40	05/13/04	SM	05/12/04	OP10405	GZF614
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	837	410	250	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2463-NB-001		
Lab Sample ID:	F24034-3	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 SW846 5035	Percent Solids:	82.0
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013089.D	1	05/12/04	NJ	05/11/04 12:10	n/a	GUV787
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.24 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	229	49	24	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	63%		62-135%
98-08-8	aaa-Trifluorotoluene	80%		65-118%

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:	2463-NB-001		
Lab Sample ID:	F24034-3	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	82.0
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13252.D	100	05/13/04	SM	05/12/04	OP10405	GZF614
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5230	990	590	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2463-SB-002		
Lab Sample ID:	F24034-4	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 SW846 5035	Percent Solids:	79.5
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013083.D	1	05/12/04	NJ	05/11/04 12:10	n/a	GUV786
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.77 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	116	55	27	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		62-135%
98-08-8	aaa-Trifluorotoluene	80%		65-118%

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:	2463-SB-002		
Lab Sample ID:	F24034-4	Date Sampled:	05/10/04
Matrix:	SO - Soil	Date Received:	05/11/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	79.5
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13253.D	200	05/13/04	SM	05/12/04	OP10405	GZF614
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5680	2100	1200	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	TRIP BLANK		
Lab Sample ID:	F24034-5	Date Sampled:	05/10/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/11/04
Method:	SW846 8015	Percent Solids:	n/a
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH007298.D	1	05/12/04	NJ	n/a	n/a	GHH338
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.0934	0.10	0.050	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-127%
98-08-8	aaa-Trifluorotoluene	85%		65-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Southeast
ACCUTEST.
Laboratories

06/04/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2461

102463

Accutest Job Number: F24295

Sampling Date: 05/20/04

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

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

Shaw E & I, Inc.

Job No: F24295

Camp Lejeune-TT2461
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F24295-1	05/20/04	10:50	MM	05/21/04	SO	Soil	2461-F-001
F24295-2	05/20/04	10:55	MM	05/21/04	SO	Soil	2461-NW-002
F24295-3	05/20/04	11:00	MM	05/21/04	SO	Soil	2461-EW-003
F24295-4	05/20/04	11:05	MM	05/21/04	SO	Soil	2461-WW-004
F24295-5	05/20/04	11:10	MM	05/21/04	SO	Soil	2461-SW-005
F24295-6	05/20/04	11:15	MM	05/21/04	SO	Soil	2461-FD-006

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025651.D	1	05/27/04	NAF	05/21/04 11:45	n/a	VH957
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.45 g	5.0 ml	50.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5300	2600	ug/kg	
71-43-2	Benzene	ND	530	210	ug/kg	
75-27-4	Bromodichloromethane	ND	530	210	ug/kg	
75-25-2	Bromoform	ND	530	210	ug/kg	
108-90-7	Chlorobenzene	ND	530	210	ug/kg	
75-00-3	Chloroethane	ND	530	210	ug/kg	
67-66-3	Chloroform	ND	530	210	ug/kg	
75-15-0	Carbon disulfide	ND	530	210	ug/kg	
56-23-5	Carbon tetrachloride	ND	530	210	ug/kg	
75-34-3	1,1-Dichloroethane	ND	530	210	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	530	320	ug/kg	
107-06-2	1,2-Dichloroethane	ND	530	210	ug/kg	
78-87-5	1,2-Dichloropropane	ND	530	210	ug/kg	
124-48-1	Dibromochloromethane	ND	530	210	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	530	210	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	530	210	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	530	210	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	530	210	ug/kg	
100-41-4	Ethylbenzene	426	530	210	ug/kg	J
591-78-6	2-Hexanone	ND	2600	1100	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	2600	1100	ug/kg	
74-83-9	Methyl bromide	ND	530	210	ug/kg	
74-87-3	Methyl chloride	ND	530	210	ug/kg	
75-09-2	Methylene chloride	ND	1100	530	ug/kg	
78-93-3	Methyl ethyl ketone	ND	2600	1100	ug/kg	
100-42-5	Styrene	ND	530	210	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	530	210	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	530	210	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	530	210	ug/kg	
127-18-4	Tetrachloroethylene	ND	530	210	ug/kg	
108-88-3	Toluene	ND	530	210	ug/kg	
79-01-6	Trichloroethylene	ND	530	210	ug/kg	

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	530	260	ug/kg	
1330-20-7	Xylene (total)	635	1600	470	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		78-123%
2037-26-5	Toluene-D8	100%		71-137%
460-00-4	4-Bromofluorobenzene	136%		61-157%
17060-07-0	1,2-Dichloroethane-D4	94%		74-125%

(a) Methanol extract analysis required due to matrix interference (non-target analytes present above calibration range).

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021668.D	8	05/27/04	ME	05/25/04	OP10516	SL1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	7600	4600	ug/kg	
95-57-8	2-Chlorophenol	ND	1500	300	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1500	300	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1500	300	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1500	300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7600	3000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3000	610	ug/kg	
95-48-7	2-Methylphenol	ND	1500	300	ug/kg	
	3&4-Methylphenol	ND	1500	300	ug/kg	
88-75-5	2-Nitrophenol	ND	1500	300	ug/kg	
100-02-7	4-Nitrophenol	ND	7600	3000	ug/kg	
87-86-5	Pentachlorophenol	ND	7600	3000	ug/kg	
108-95-2	Phenol	ND	1500	300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1500	300	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1500	300	ug/kg	
83-32-9	Acenaphthene	1270	1500	300	ug/kg	J
208-96-8	Acenaphthylene	ND	1500	300	ug/kg	
120-12-7	Anthracene	ND	1500	300	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1500	300	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1500	300	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1500	300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1500	610	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1500	300	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	3000	760	ug/kg	
100-51-6	Benzyl Alcohol	ND	1500	300	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	300	ug/kg	
106-47-8	4-Chloroaniline	ND	6100	2300	ug/kg	
86-74-8	Carbazole	ND	1500	300	ug/kg	
218-01-9	Chrysene	ND	1500	300	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	610	ug/kg	

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	300	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	300	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1500	300	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	300	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1500	1500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1500	610	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3000	1500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1500	610	ug/kg	
132-64-9	Dibenzofuran	795	1500	300	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	3000	760	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	3000	1500	ug/kg	
84-66-2	Diethyl phthalate	ND	3000	760	ug/kg	
131-11-3	Dimethyl phthalate	ND	3000	760	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	3000	1500	ug/kg	
206-44-0	Fluoranthene	ND	1500	300	ug/kg	
86-73-7	Fluorene	2720	1500	300	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	610	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1500	610	ug/kg	
67-72-1	Hexachloroethane	ND	1500	610	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1500	610	ug/kg	
78-59-1	Isophorone	ND	1500	300	ug/kg	
91-57-6	2-Methylnaphthalene	6120	1500	300	ug/kg	
88-74-4	2-Nitroaniline	ND	3000	760	ug/kg	
99-09-2	3-Nitroaniline	ND	3000	760	ug/kg	
100-01-6	4-Nitroaniline	ND	3000	760	ug/kg	
91-20-3	Naphthalene	1170	1500	300	ug/kg	J
98-95-3	Nitrobenzene	ND	1500	300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	610	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	300	ug/kg	
85-01-8	Phenanthrene	2650	1500	300	ug/kg	
129-00-0	Pyrene	ND	1500	610	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		45-114%
4165-62-2	Phenol-d5	73%		44-124%
118-79-6	2,4,6-Tribromophenol	77%		50-128%

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		41-123%
321-60-8	2-Fluorobiphenyl	74%		46-122%
1718-51-0	Terphenyl-d14	74%		45-135%

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013427.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.47 g	5.0 ml	1.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	26000	10000	ug/kg	
100-41-4	Ethylbenzene	ND	26000	13000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	79000	26000	ug/kg	
91-20-3	Naphthalene	ND	52000	29000	ug/kg	
108-88-3	Toluene	ND	79000	26000	ug/kg	
	m,p-Xylene	ND	100000	39000	ug/kg	
95-47-6	o-Xylene	ND	52000	26000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	390000	210000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	1240000	290000	160000	ug/kg	
	C9- C10 Aromatics (Unadj.)	579000	100000	52000	ug/kg	
	C5- C8 Aliphatics	ND	390000	210000	ug/kg	
	C9- C12 Aliphatics	658000	290000	160000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	129%		70-130%
460-00-4	BFB	129%		70-130%

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:	2461-F-001		
Lab Sample ID:	F24295-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	87.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13523.D	50	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	19000	7600	ug/kg	
208-96-8	Acenaphthylene	ND	19000	7600	ug/kg	
120-12-7	Anthracene	ND	19000	7600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	19000	7600	ug/kg	
50-32-8	Benzo(a)pyrene	ND	19000	7600	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	19000	7600	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	19000	7600	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	19000	7600	ug/kg	
218-01-9	Chrysene	ND	19000	7600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	19000	7600	ug/kg	
206-44-0	Fluoranthene	ND	19000	7600	ug/kg	
86-73-7	Fluorene	ND	19000	7600	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19000	7600	ug/kg	
91-57-6	2-Methylnaphthalene	14100	19000	7600	ug/kg	J
91-20-3	Naphthalene	ND	19000	7600	ug/kg	
85-01-8	Phenanthrene	ND	19000	7600	ug/kg	
129-00-0	Pyrene	ND	19000	7600	ug/kg	
	C11-C22 Aromatics (Unadj.)	2030000	380000	380000	ug/kg	
	C9-C18 Aliphatics	4080000	380000	380000	ug/kg	
	C11-C22 Aromatics	2010000	380000	380000	ug/kg	
	C19-C36 Aliphatics	ND	380000	380000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2461-NW-002		
Lab Sample ID:	F24295-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	74.5
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013322.D	1	05/25/04	NJ	n/a	n/a	GUV798
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.37 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	3100	1200	ug/kg	
100-41-4	Ethylbenzene	ND	3100	1600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	9400	3100	ug/kg	
91-20-3	Naphthalene	6600	6200	3400	ug/kg	
108-88-3	Toluene	ND	9400	3100	ug/kg	
	m,p-Xylene	ND	12000	4700	ug/kg	
95-47-6	o-Xylene	ND	6200	3100	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	47000	25000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	226000	34000	19000	ug/kg	
	C9- C10 Aromatics (Unadj.)	114000	12000	6200	ug/kg	
	C5- C8 Aliphatics	ND	47000	25000	ug/kg	
	C9- C12 Aliphatics	113000	34000	19000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	82%		70-130%

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:	2461-NW-002		
Lab Sample ID:	F24295-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	74.5
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13524.D	4	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1800	700	ug/kg	
208-96-8	Acenaphthylene	ND	1800	700	ug/kg	
120-12-7	Anthracene	ND	1800	700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1800	700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1800	700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1800	700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1800	700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1800	700	ug/kg	
218-01-9	Chrysene	ND	1800	700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1800	700	ug/kg	
206-44-0	Fluoranthene	ND	1800	700	ug/kg	
86-73-7	Fluorene	ND	1800	700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1800	700	ug/kg	
91-57-6	2-Methylnaphthalene	2060	1800	700	ug/kg	
91-20-3	Naphthalene	ND	1800	700	ug/kg	
85-01-8	Phenanthrene	ND	1800	700	ug/kg	
129-00-0	Pyrene	ND	1800	700	ug/kg	
	C11-C22 Aromatics (Unadj.)	85600	35000	35000	ug/kg	
	C9-C18 Aliphatics	245000	35000	35000	ug/kg	
	C11-C22 Aromatics	82400	35000	35000	ug/kg	
	C19-C36 Aliphatics	ND	35000	35000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%
84-15-1	o-Terphenyl	89%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%

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:	2461-EW-003		
Lab Sample ID:	F24295-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	78.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013323.D	1	05/25/04	NJ	n/a	n/a	GUV798
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.63 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	110	ug/kg	
100-41-4	Ethylbenzene	ND	280	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	850	280	ug/kg	
91-20-3	Naphthalene	491	570	310	ug/kg	J
108-88-3	Toluene	ND	850	280	ug/kg	
	m,p-Xylene	ND	1100	430	ug/kg	
95-47-6	o-Xylene	ND	570	280	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	32900	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	18100	1100	570	ug/kg	
	C5- C8 Aliphatics	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics	14700	3100	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	93%		70-130%
460-00-4	BFB	104%		70-130%

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:	2461-EW-003		
Lab Sample ID:	F24295-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13499.D	1	05/29/04	ME	05/25/04	OP10518	GZF628
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	207	420	170	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	29400	8400	8400	ug/kg	
	C9-C18 Aliphatics	93300	8400	8400	ug/kg	
	C11-C22 Aromatics	28800	8400	8400	ug/kg	
	C19-C36 Aliphatics	14500	8400	8400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	67%		40-140%
580-13-2	2-Bromonaphthalene	82%		40-140%
84-15-1	o-Terphenyl	87%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%

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:	2461-WW-004		
Lab Sample ID:	F24295-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	76.4
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013324.D	1	05/25/04	NJ	n/a	n/a	GUV798
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.07 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2700	1100	ug/kg	
100-41-4	Ethylbenzene	ND	2700	1300	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	8100	2700	ug/kg	
91-20-3	Naphthalene	5670	5400	3000	ug/kg	
108-88-3	Toluene	ND	8100	2700	ug/kg	
	m,p-Xylene	ND	11000	4000	ug/kg	
95-47-6	o-Xylene	ND	5400	2700	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	40000	22000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	252000	30000	16000	ug/kg	
	C9- C10 Aromatics (Unadj.)	129000	11000	5400	ug/kg	
	C5- C8 Aliphatics	ND	40000	22000	ug/kg	
	C9- C12 Aliphatics	123000	30000	16000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	87%		70-130%
460-00-4	BFB	81%		70-130%

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:	2461-WW-004		
Lab Sample ID:	F24295-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	76.4
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13500.D	1	05/29/04	ME	05/25/04	OP10518	GZF628
Run #2	ZF13593.D	2	06/04/04	ME	05/25/04	OP10518	GZF632

	Initial Weight	Final Volume
Run #1	30.7 g	2.0 ml
Run #2	30.7 g	2.0 ml

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	430	170	ug/kg	
208-96-8	Acenaphthylene	ND	430	170	ug/kg	
120-12-7	Anthracene	ND	430	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	430	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	430	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	430	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	430	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	430	170	ug/kg	
218-01-9	Chrysene	ND	430	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	430	170	ug/kg	
206-44-0	Fluoranthene	ND	430	170	ug/kg	
86-73-7	Fluorene	218	430	170	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	430	170	ug/kg	
91-57-6	2-Methylnaphthalene	624	430	170	ug/kg	
91-20-3	Naphthalene	ND	430	170	ug/kg	
85-01-8	Phenanthrene	ND	430	170	ug/kg	
129-00-0	Pyrene	ND	430	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	29200	8500	8500	ug/kg	
	C9-C18 Aliphatics	105000 [a]	17000	17000	ug/kg	
	C11-C22 Aromatics	28000	8500	8500	ug/kg	
	C19-C36 Aliphatics	16600	8500	8500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	79%	76%	40-140%
580-13-2	2-Bromonaphthalene	61%	58%	40-140%
84-15-1	o-Terphenyl	86%	83%	40-140%
321-60-8	2-Fluorobiphenyl	77%	75%	40-140%

(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:	2461-SW-005		
Lab Sample ID:	F24295-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	79.1
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013428.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	890	300	ug/kg	
91-20-3	Naphthalene	ND	600	330	ug/kg	
108-88-3	Toluene	ND	890	300	ug/kg	
	m,p-Xylene	ND	1200	450	ug/kg	
95-47-6	o-Xylene	ND	600	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3300	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	600	ug/kg	
	C5- C8 Aliphatics	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics	ND	3300	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	88%		70-130%
460-00-4	BFB	88%		70-130%

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:	2461-SW-005		
Lab Sample ID:	F24295-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.1
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13501.D	1	05/29/04	ME	05/25/04	OP10518	GZF628
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8300	8300	ug/kg	
	C9-C18 Aliphatics	9150	8300	8300	ug/kg	
	C11-C22 Aromatics	ND	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	62%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%
84-15-1	o-Terphenyl	86%		40-140%
321-60-8	2-Fluorobiphenyl	92%		40-140%

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:	2461-FD-006		
Lab Sample ID:	F24295-6	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	88.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013432.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.68 g	5.0 ml	1.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	25000	10000	ug/kg	
100-41-4	Ethylbenzene	ND	25000	12000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	75000	25000	ug/kg	
91-20-3	Naphthalene	ND	50000	27000	ug/kg	
108-88-3	Toluene	ND	75000	25000	ug/kg	
	m,p-Xylene	ND	100000	37000	ug/kg	
95-47-6	o-Xylene	ND	50000	25000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	370000	200000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	1270000	270000	150000	ug/kg	
	C9- C10 Aromatics (Unadj.)	608000	100000	50000	ug/kg	
	C5- C8 Aliphatics	ND	370000	200000	ug/kg	
	C9- C12 Aliphatics	622000	270000	150000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	187% [a]		70-130%
460-00-4	BFB	176% [a]		70-130%

(a) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2461-FD-006		
Lab Sample ID:	F24295-6	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	88.3
Project:	Camp Lejeune-TT2461		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13525.D	80	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	29000	12000	ug/kg	
208-96-8	Acenaphthylene	ND	29000	12000	ug/kg	
120-12-7	Anthracene	ND	29000	12000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29000	12000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29000	12000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29000	12000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29000	12000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29000	12000	ug/kg	
218-01-9	Chrysene	ND	29000	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29000	12000	ug/kg	
206-44-0	Fluoranthene	ND	29000	12000	ug/kg	
86-73-7	Fluorene	ND	29000	12000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29000	12000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	29000	12000	ug/kg	
91-20-3	Naphthalene	ND	29000	12000	ug/kg	
85-01-8	Phenanthrene	ND	29000	12000	ug/kg	
129-00-0	Pyrene	ND	29000	12000	ug/kg	
	C11-C22 Aromatics (Unadj.)	1190000	590000	590000	ug/kg	
	C9-C18 Aliphatics	5010000	590000	590000	ug/kg	
	C11-C22 Aromatics	1180000	590000	590000	ug/kg	
	C19-C36 Aliphatics	ND	590000	590000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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

Southeast
ACCUTEST.
Laboratories

06/04/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT 2463

102463

Accutest Job Number: F24298

Sampling Date: 05/20/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 51

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24298

Camp Lejeune-TT 2463
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F24298-1	05/20/04	09:30	MM	05/21/04	SO	Soil	2463-F-001
F24298-2	05/20/04	09:35	MM	05/21/04	SO	Soil	2463-NW-002
F24298-3	05/20/04	09:40	MM	05/21/04	SO	Soil	2463-EW-003
F24298-4	05/20/04	09:45	MM	05/21/04	SO	Soil	2463-WW-004
F24298-5	05/20/04	09:50	MM	05/21/04	SO	Soil	2463-SW-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025689.D	1	06/01/04	NAF	05/21/04 15:00	n/a	VH959
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.11 g	5.0 ml	25.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12000	6100	ug/kg	
71-43-2	Benzene	ND	1200	490	ug/kg	
75-27-4	Bromodichloromethane	ND	1200	490	ug/kg	
75-25-2	Bromoform	ND	1200	490	ug/kg	
108-90-7	Chlorobenzene	ND	1200	490	ug/kg	
75-00-3	Chloroethane	ND	1200	490	ug/kg	
67-66-3	Chloroform	ND	1200	490	ug/kg	
75-15-0	Carbon disulfide	ND	1200	490	ug/kg	
56-23-5	Carbon tetrachloride	ND	1200	490	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1200	490	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	1200	730	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1200	490	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1200	490	ug/kg	
124-48-1	Dibromochloromethane	ND	1200	490	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	1200	490	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1200	490	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	1200	490	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1200	490	ug/kg	
100-41-4	Ethylbenzene	943	1200	490	ug/kg	J
591-78-6	2-Hexanone	ND	6100	2400	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	6100	2400	ug/kg	
74-83-9	Methyl bromide	ND	1200	490	ug/kg	
74-87-3	Methyl chloride	ND	1200	490	ug/kg	
75-09-2	Methylene chloride	ND	2400	2400	ug/kg	
78-93-3	Methyl ethyl ketone	ND	6100	2400	ug/kg	
100-42-5	Styrene	ND	1200	490	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1200	490	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1200	490	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1200	490	ug/kg	
127-18-4	Tetrachloroethylene	ND	1200	490	ug/kg	
108-88-3	Toluene	ND	1200	490	ug/kg	
79-01-6	Trichloroethylene	ND	1200	490	ug/kg	

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:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1200	610	ug/kg	
1330-20-7	Xylene (total)	1910	3600	1100	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		78-123%
2037-26-5	Toluene-D8	101%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	93%		74-125%

(a) Methanol extract analysis required due to matrix interference (internal and surrogate standard failure).

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:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021673.D	4	05/27/04	ME	05/25/04	OP10516	SL1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	4100	2400	ug/kg	
95-57-8	2-Chlorophenol	ND	810	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	810	160	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	810	160	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	810	160	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4100	1600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1600	320	ug/kg	
95-48-7	2-Methylphenol	ND	810	160	ug/kg	
	3&4-Methylphenol	ND	810	160	ug/kg	
88-75-5	2-Nitrophenol	ND	810	160	ug/kg	
100-02-7	4-Nitrophenol	ND	4100	1600	ug/kg	
87-86-5	Pentachlorophenol	ND	4100	1600	ug/kg	
108-95-2	Phenol	ND	810	160	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	810	160	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	810	160	ug/kg	
83-32-9	Acenaphthene	1620	810	160	ug/kg	
208-96-8	Acenaphthylene	ND	810	160	ug/kg	
120-12-7	Anthracene	327	810	160	ug/kg	J
56-55-3	Benzo(a)anthracene	ND	810	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	810	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	810	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	810	320	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	810	160	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	810	160	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1600	410	ug/kg	
100-51-6	Benzyl Alcohol	ND	810	160	ug/kg	
91-58-7	2-Chloronaphthalene	ND	810	160	ug/kg	
106-47-8	4-Chloroaniline	ND	3200	1200	ug/kg	
86-74-8	Carbazole	ND	810	160	ug/kg	
218-01-9	Chrysene	ND	810	160	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	810	160	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	810	320	ug/kg	

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

Report of Analysis

Client Sample ID:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	810	160	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	810	160	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	810	160	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	810	160	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	810	160	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	810	810	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	810	320	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1600	810	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	810	320	ug/kg	
132-64-9	Dibenzofuran	1240	810	160	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1600	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1600	810	ug/kg	
84-66-2	Diethyl phthalate	ND	1600	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	1600	410	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1600	810	ug/kg	
206-44-0	Fluoranthene	ND	810	160	ug/kg	
86-73-7	Fluorene	2940	810	160	ug/kg	
118-74-1	Hexachlorobenzene	ND	810	160	ug/kg	
87-68-3	Hexachlorobutadiene	ND	810	320	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	810	320	ug/kg	
67-72-1	Hexachloroethane	ND	810	320	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	810	320	ug/kg	
78-59-1	Isophorone	ND	810	160	ug/kg	
91-57-6	2-Methylnaphthalene	18400	810	160	ug/kg	
88-74-4	2-Nitroaniline	ND	1600	410	ug/kg	
99-09-2	3-Nitroaniline	ND	1600	410	ug/kg	
100-01-6	4-Nitroaniline	ND	1600	410	ug/kg	
91-20-3	Naphthalene	2540	810	160	ug/kg	
98-95-3	Nitrobenzene	ND	810	160	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	810	320	ug/kg	
86-30-6	N-Nitrosodiphenylamine	2840	810	160	ug/kg	
85-01-8	Phenanthrene	5270	810	160	ug/kg	
129-00-0	Pyrene	721	810	320	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	810	160	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		45-114%
4165-62-2	Phenol-d5	82%		44-124%
118-79-6	2,4,6-Tribromophenol	80%		50-128%

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:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		41-123%
321-60-8	2-Fluorobiphenyl	81%		46-122%
1718-51-0	Terphenyl-d14	86%		45-135%

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:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013439.D	1	06/03/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.69 g	5.0 ml	2.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	14000	5500	ug/kg	
100-41-4	Ethylbenzene	ND	14000	6800	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	41000	14000	ug/kg	
91-20-3	Naphthalene	26400	27000	15000	ug/kg	J
108-88-3	Toluene	ND	41000	14000	ug/kg	
	m,p-Xylene	ND	55000	20000	ug/kg	
95-47-6	o-Xylene	ND	27000	14000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	678000	150000	82000	ug/kg	
	C9- C10 Aromatics (Unadj.)	364000	55000	27000	ug/kg	
	C5- C8 Aliphatics	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics	292000	150000	82000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	94%		70-130%
460-00-4	BFB	91%		70-130%

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:	2463-F-001		
Lab Sample ID:	F24298-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	80.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13569.D	40	06/03/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	16000	6500	ug/kg	
208-96-8	Acenaphthylene	ND	16000	6500	ug/kg	
120-12-7	Anthracene	ND	16000	6500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	16000	6500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	16000	6500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	16000	6500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	16000	6500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	16000	6500	ug/kg	
218-01-9	Chrysene	ND	16000	6500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	16000	6500	ug/kg	
206-44-0	Fluoranthene	ND	16000	6500	ug/kg	
86-73-7	Fluorene	7550	16000	6500	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	16000	6500	ug/kg	
91-57-6	2-Methylnaphthalene	27800	16000	6500	ug/kg	
91-20-3	Naphthalene	ND	16000	6500	ug/kg	
85-01-8	Phenanthrene	ND	16000	6500	ug/kg	
129-00-0	Pyrene	ND	16000	6500	ug/kg	
	C11-C22 Aromatics (Unadj.)	1380000	330000	330000	ug/kg	
	C9-C18 Aliphatics	2850000	330000	330000	ug/kg	
	C11-C22 Aromatics	1330000	330000	330000	ug/kg	
	C19-C36 Aliphatics	405000	330000	330000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2463-NW-002		
Lab Sample ID:	F24298-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	82.3
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013452.D	1	06/03/04	NJ	n/a	n/a	GUV807
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.19 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	3600	1400	ug/kg	
100-41-4	Ethylbenzene	ND	3600	1800	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	11000	3600	ug/kg	
91-20-3	Naphthalene	9730	7200	4000	ug/kg	
108-88-3	Toluene	ND	11000	3600	ug/kg	
	m,p-Xylene	ND	14000	5400	ug/kg	
95-47-6	o-Xylene	ND	7200	3600	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	54000	29000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	261000	40000	22000	ug/kg	
	C9- C10 Aromatics (Unadj.)	163000	14000	7200	ug/kg	
	C5- C8 Aliphatics	ND	54000	29000	ug/kg	
	C9- C12 Aliphatics	94500	40000	22000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	103%		70-130%
460-00-4	BFB	114%		70-130%

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:	2463-NW-002		
Lab Sample ID:	F24298-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	82.3
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13549.D	40	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	16000	6400	ug/kg	
208-96-8	Acenaphthylene	ND	16000	6400	ug/kg	
120-12-7	Anthracene	ND	16000	6400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	16000	6400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	16000	6400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	16000	6400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	16000	6400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	16000	6400	ug/kg	
218-01-9	Chrysene	ND	16000	6400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	16000	6400	ug/kg	
206-44-0	Fluoranthene	ND	16000	6400	ug/kg	
86-73-7	Fluorene	ND	16000	6400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	16000	6400	ug/kg	
91-57-6	2-Methylnaphthalene	20200	16000	6400	ug/kg	
91-20-3	Naphthalene	ND	16000	6400	ug/kg	
85-01-8	Phenanthrene	ND	16000	6400	ug/kg	
129-00-0	Pyrene	ND	16000	6400	ug/kg	
	C11-C22 Aromatics (Unadj.)	1180000	320000	320000	ug/kg	
	C9-C18 Aliphatics	2560000	320000	320000	ug/kg	
	C11-C22 Aromatics	1150000	320000	320000	ug/kg	
	C19-C36 Aliphatics	383000	320000	320000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2463-EW-003		
Lab Sample ID:	F24298-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	84.4
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013458.D	1	06/03/04	NJ	n/a	n/a	GUV807
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.61 g	5.0 ml	20.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1300	530	ug/kg	
100-41-4	Ethylbenzene	ND	1300	660	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4000	1300	ug/kg	
91-20-3	Naphthalene	2060	2600	1500	ug/kg	J
108-88-3	Toluene	ND	4000	1300	ug/kg	
	m,p-Xylene	ND	5300	2000	ug/kg	
95-47-6	o-Xylene	ND	2600	1300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	20000	11000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	78100	15000	7900	ug/kg	
	C9- C10 Aromatics (Unadj.)	44200	5300	2600	ug/kg	
	C5- C8 Aliphatics	ND	20000	11000	ug/kg	
	C9- C12 Aliphatics	33300	15000	7900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	102%		70-130%
460-00-4	BFB	107%		70-130%

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:	2463-EW-003		
Lab Sample ID:	F24298-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	84.4
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13550.D	10	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3900	1600	ug/kg	
208-96-8	Acenaphthylene	ND	3900	1600	ug/kg	
120-12-7	Anthracene	ND	3900	1600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3900	1600	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3900	1600	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3900	1600	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3900	1600	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3900	1600	ug/kg	
218-01-9	Chrysene	ND	3900	1600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3900	1600	ug/kg	
206-44-0	Fluoranthene	ND	3900	1600	ug/kg	
86-73-7	Fluorene	2730	3900	1600	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3900	1600	ug/kg	
91-57-6	2-Methylnaphthalene	12200	3900	1600	ug/kg	
91-20-3	Naphthalene	1930	3900	1600	ug/kg	J
85-01-8	Phenanthrene	2790	3900	1600	ug/kg	J
129-00-0	Pyrene	ND	3900	1600	ug/kg	
	C11-C22 Aromatics (Unadj.)	652000	78000	78000	ug/kg	
	C9-C18 Aliphatics	722000	78000	78000	ug/kg	
	C11-C22 Aromatics	632000	78000	78000	ug/kg	
	C19-C36 Aliphatics	115000	78000	78000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	58%		40-140%
580-13-2	2-Bromonaphthalene	134%		40-140%
84-15-1	o-Terphenyl	204% [a]		40-140%
321-60-8	2-Fluorobiphenyl	116%		40-140%

(a) Outside control limits due to dilution.

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:	2463-WW-004		
Lab Sample ID:	F24298-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	79.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013442.D	1	06/03/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.55 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	110	ug/kg	
100-41-4	Ethylbenzene	ND	280	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	850	280	ug/kg	
91-20-3	Naphthalene	ND	570	310	ug/kg	
108-88-3	Toluene	ND	850	280	ug/kg	
	m,p-Xylene	ND	1100	420	ug/kg	
95-47-6	o-Xylene	ND	570	280	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4200	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	570	ug/kg	
	C5- C8 Aliphatics	ND	4200	2300	ug/kg	
	C9- C12 Aliphatics	ND	3100	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	86%		70-130%
460-00-4	BFB	86%		70-130%

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:	2463-WW-004		
Lab Sample ID:	F24298-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.6
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13570.D	1	06/03/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	410	160	ug/kg	
208-96-8	Acenaphthylene	ND	410	160	ug/kg	
120-12-7	Anthracene	ND	410	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	160	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	160	ug/kg	
218-01-9	Chrysene	ND	410	160	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	160	ug/kg	
206-44-0	Fluoranthene	ND	410	160	ug/kg	
86-73-7	Fluorene	ND	410	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	160	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	160	ug/kg	
91-20-3	Naphthalene	ND	410	160	ug/kg	
85-01-8	Phenanthrene	ND	410	160	ug/kg	
129-00-0	Pyrene	ND	410	160	ug/kg	
	C11-C22 Aromatics (Unadj.)	37900	8200	8200	ug/kg	
	C9-C18 Aliphatics	87700	8200	8200	ug/kg	
	C11-C22 Aromatics	37900	8200	8200	ug/kg	
	C19-C36 Aliphatics	24000	8200	8200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	73%		40-140%
580-13-2	2-Bromonaphthalene	88%		40-140%
84-15-1	o-Terphenyl	96%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%

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:	2463-SW-005		
Lab Sample ID:	F24298-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	73.1
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013443.D	1	06/03/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.43 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	310	130	ug/kg	
100-41-4	Ethylbenzene	ND	310	160	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	940	310	ug/kg	
91-20-3	Naphthalene	ND	630	350	ug/kg	
108-88-3	Toluene	ND	940	310	ug/kg	
	m,p-Xylene	ND	1300	470	ug/kg	
95-47-6	o-Xylene	ND	630	310	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3500	1900	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1300	630	ug/kg	
	C5- C8 Aliphatics	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics	ND	3500	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	85%		70-130%
460-00-4	BFB	85%		70-130%

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:	2463-SW-005		
Lab Sample ID:	F24298-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	73.1
Project:	Camp Lejeune-TT 2463		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13553.D	1	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	450	180	ug/kg	
208-96-8	Acenaphthylene	ND	450	180	ug/kg	
120-12-7	Anthracene	ND	450	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	450	180	ug/kg	
50-32-8	Benzo(a)pyrene	ND	450	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	450	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	450	180	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	450	180	ug/kg	
218-01-9	Chrysene	ND	450	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	450	180	ug/kg	
206-44-0	Fluoranthene	ND	450	180	ug/kg	
86-73-7	Fluorene	ND	450	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	450	180	ug/kg	
91-57-6	2-Methylnaphthalene	ND	450	180	ug/kg	
91-20-3	Naphthalene	ND	450	180	ug/kg	
85-01-8	Phenanthrene	ND	450	180	ug/kg	
129-00-0	Pyrene	ND	450	180	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8900	8900	ug/kg	
	C9-C18 Aliphatics	ND	8900	8900	ug/kg	
	C11-C22 Aromatics	ND	8900	8900	ug/kg	
	C19-C36 Aliphatics	ND	8900	8900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	68%		40-140%
580-13-2	2-Bromonaphthalene	86%		40-140%
84-15-1	o-Terphenyl	88%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%

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

Southeast
ACCUTEST.
Laboratories

05/13/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2465

102463

Accutest Job Number: F23939

Sampling Date: 05/06/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 33

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F23939

Camp Lejeune-TT2465
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F23939-1	05/06/04	10:30	MM	05/07/04	SO	Soil	2465-WTN-001
F23939-2	05/06/04	10:35	MM	05/07/04	SO	Soil	2465-WTS-002
F23939-3	05/06/04	10:45	MM	05/07/04	SO	Soil	2465-ETN-003
F23939-4	05/06/04	10:50	MM	05/07/04	SO	Soil	2465-ETS-004
F23939-5	05/06/04	10:48	MM	05/07/04	SO	Soil	2465-ETND-005
F23939-6	05/06/04	00:00	MM	05/07/04	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2465-WTN-001		
Lab Sample ID:	F23939-1	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 SW846 5035	Percent Solids:	85.5
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013015.D	1	05/08/04	NJ	05/07/04 11:40	n/a	GUV783
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.09 g	5.0 ml	1.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	497	480	240	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		62-135%
98-08-8	aaa-Trifluorotoluene	97%		65-118%

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:	2465-WTN-001		
Lab Sample ID:	F23939-1	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	85.5
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13146.D	100	05/08/04	SKW	05/07/04	OP10369	GZF610
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	11500	970	580	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2465-WTS-002		
Lab Sample ID:	F23939-2	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 SW846 5035	Percent Solids:	84.1
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013035.D	1	05/10/04	NJ	05/07/04 11:40	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.85 g	5.0 ml	5.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	557	100	51	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	68%		62-135%
98-08-8	aaa-Trifluorotoluene	87%		65-118%

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:	2465-WTS-002		
Lab Sample ID:	F23939-2	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	84.1
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13147.D	100	05/08/04	SKW	05/07/04	OP10369	GZF610
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	12400	990	590	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2465-ETN-003		
Lab Sample ID:	F23939-3	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 SW846 5035	Percent Solids:	82.5
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013036.D	1	05/10/04	NJ	05/07/04 11:40	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.89 g	5.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	231	26	13	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	73% [a]		62-135%
460-00-4	4-Bromofluorobenzene	42% [b]		62-135%
98-08-8	aaa-Trifluorotoluene	89%		65-118%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2465-ETN-003		
Lab Sample ID:	F23939-3	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	82.5
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13148.D	50	05/08/04	SKW	05/07/04	OP10369	GZF610
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	3590	500	300	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2465-ETS-004		
Lab Sample ID:	F23939-4	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 SW846 5035	Percent Solids:	83.9
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013037.D	1	05/10/04	NJ	05/07/04 11:40	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.80 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	386	51	26	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79% [a]		62-135%
460-00-4	4-Bromofluorobenzene	55% [b]		62-135%
98-08-8	aaa-Trifluorotoluene	94%		65-118%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2465-ETS-004		
Lab Sample ID:	F23939-4	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	83.9
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13149.D	100	05/08/04	SKW	05/07/04	OP10369	GZF610
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	6570	980	590	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2465-ETND-005		
Lab Sample ID:	F23939-5	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 SW846 5035	Percent Solids:	81.8
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013038.D	1	05/10/04	NJ	05/07/04 11:40	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.97 g	5.0 ml	25.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	210	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	71% [a]		62-135%
460-00-4	4-Bromofluorobenzene	41% [b]		62-135%
98-08-8	aaa-Trifluorotoluene	89%		65-118%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2465-ETND-005		
Lab Sample ID:	F23939-5	Date Sampled:	05/06/04
Matrix:	SO - Soil	Date Received:	05/07/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	81.8
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13150.D	100	05/08/04	SKW	05/07/04	OP10369	GZF610
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5850	1000	600	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	TRIP BLANK		
Lab Sample ID:	F23939-6	Date Sampled:	05/06/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/07/04
Method:	SW846 8015	Percent Solids:	n/a
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH007264.D	1	05/11/04	NJ	n/a	n/a	GHH337
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		65-127%
98-08-8	aaa-Trifluorotoluene	86%		65-124%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Southeast
ACCUTEST Laboratories

06/04/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2465

102463

Accutest Job Number: F24296

Sampling Date: 05/20/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 51

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24296

Camp Lejeune-TT2465
Project No: 102463

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F24296-1	05/20/04	10:05 MM	05/21/04	SO	Soil	2465-F-001
F24296-2	05/20/04	10:10 MM	05/21/04	SO	Soil	2465-NW-002
F24296-3	05/20/04	10:15 MM	05/21/04	SO	Soil	2465-EW-003
F24296-4	05/20/04	10:20 MM	05/21/04	SO	Soil	2465-WW-004
F24296-5	05/20/04	10:25 MM	05/21/04	SO	Soil	2465-SW-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025690.D	1	06/01/04	NAF	05/21/04 12:20	n/a	VH959
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.37 g	5.0 ml	50.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5700	2900	ug/kg	
71-43-2	Benzene	ND	570	230	ug/kg	
75-27-4	Bromodichloromethane	ND	570	230	ug/kg	
75-25-2	Bromoform	ND	570	230	ug/kg	
108-90-7	Chlorobenzene	ND	570	230	ug/kg	
75-00-3	Chloroethane	ND	570	230	ug/kg	
67-66-3	Chloroform	ND	570	230	ug/kg	
75-15-0	Carbon disulfide	ND	570	230	ug/kg	
56-23-5	Carbon tetrachloride	ND	570	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	570	230	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	570	340	ug/kg	
107-06-2	1,2-Dichloroethane	ND	570	230	ug/kg	
78-87-5	1,2-Dichloropropane	ND	570	230	ug/kg	
124-48-1	Dibromochloromethane	ND	570	230	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	570	230	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	570	230	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	570	230	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	570	230	ug/kg	
100-41-4	Ethylbenzene	416	570	230	ug/kg	J
591-78-6	2-Hexanone	ND	2900	1100	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	2900	1100	ug/kg	
74-83-9	Methyl bromide	ND	570	230	ug/kg	
74-87-3	Methyl chloride	ND	570	230	ug/kg	
75-09-2	Methylene chloride	ND	1100	1100	ug/kg	
78-93-3	Methyl ethyl ketone	ND	2900	1100	ug/kg	
100-42-5	Styrene	ND	570	230	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	570	230	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	570	230	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	570	230	ug/kg	
127-18-4	Tetrachloroethylene	ND	570	230	ug/kg	
108-88-3	Toluene	ND	570	230	ug/kg	
79-01-6	Trichloroethylene	ND	570	230	ug/kg	

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8260B SW846 5035	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	570	290	ug/kg	
1330-20-7	Xylene (total)	669	1700	510	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		78-123%
2037-26-5	Toluene-D8	100%		71-137%
460-00-4	4-Bromofluorobenzene	113%		61-157%
17060-07-0	1,2-Dichloroethane-D4	94%		74-125%

(a) Methanol extract analysis required due to matrix interference (internal and surrogate standard failure).

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021669.D	4	05/27/04	ME	05/25/04	OP10516	SL1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	4000	2400	ug/kg	
95-57-8	2-Chlorophenol	ND	790	160	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	790	160	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	790	160	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	790	160	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4000	1600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1600	320	ug/kg	
95-48-7	2-Methylphenol	ND	790	160	ug/kg	
	3&4-Methylphenol	ND	790	160	ug/kg	
88-75-5	2-Nitrophenol	686	790	160	ug/kg	J
100-02-7	4-Nitrophenol	ND	4000	1600	ug/kg	
87-86-5	Pentachlorophenol	ND	4000	1600	ug/kg	
108-95-2	Phenol	ND	790	160	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	790	160	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	790	160	ug/kg	
83-32-9	Acenaphthene	236	790	160	ug/kg	J
208-96-8	Acenaphthylene	ND	790	160	ug/kg	
120-12-7	Anthracene	ND	790	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	790	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	790	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	790	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	790	320	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	790	160	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	790	160	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1600	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	790	160	ug/kg	
91-58-7	2-Chloronaphthalene	ND	790	160	ug/kg	
106-47-8	4-Chloroaniline	ND	3200	1200	ug/kg	
86-74-8	Carbazole	ND	790	160	ug/kg	
218-01-9	Chrysene	ND	790	160	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	790	160	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	790	320	ug/kg	

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	790	160	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	790	160	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	790	160	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	790	160	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	790	160	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	790	320	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	790	320	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1600	790	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	790	320	ug/kg	
132-64-9	Dibenzofuran	239	790	160	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	1600	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1600	790	ug/kg	
84-66-2	Diethyl phthalate	ND	1600	400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1600	400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1600	790	ug/kg	
206-44-0	Fluoranthene	ND	790	160	ug/kg	
86-73-7	Fluorene	503	790	160	ug/kg	J
118-74-1	Hexachlorobenzene	ND	790	160	ug/kg	
87-68-3	Hexachlorobutadiene	ND	790	320	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	790	320	ug/kg	
67-72-1	Hexachloroethane	ND	790	320	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	790	320	ug/kg	
78-59-1	Isophorone	ND	790	160	ug/kg	
91-57-6	2-Methylnaphthalene	781	790	160	ug/kg	J
88-74-4	2-Nitroaniline	ND	1600	400	ug/kg	
99-09-2	3-Nitroaniline	ND	1600	400	ug/kg	
100-01-6	4-Nitroaniline	ND	1600	400	ug/kg	
91-20-3	Naphthalene	231	790	160	ug/kg	J
98-95-3	Nitrobenzene	ND	790	160	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	790	320	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	790	160	ug/kg	
85-01-8	Phenanthrene	ND	790	160	ug/kg	
129-00-0	Pyrene	ND	790	320	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	790	160	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		45-114%
4165-62-2	Phenol-d5	72%		44-124%
118-79-6	2,4,6-Tribromophenol	76%		50-128%

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		41-123%
321-60-8	2-Fluorobiphenyl	74%		46-122%
1718-51-0	Terphenyl-d14	69%		45-135%

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013433.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.73 g	5.0 ml	2.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	13000	5300	ug/kg	
100-41-4	Ethylbenzene	ND	13000	6700	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	40000	13000	ug/kg	
91-20-3	Naphthalene	16100	27000	15000	ug/kg	J
108-88-3	Toluene	ND	40000	13000	ug/kg	
	m,p-Xylene	ND	53000	20000	ug/kg	
95-47-6	o-Xylene	ND	27000	13000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	1000000	150000	80000	ug/kg	
	C9- C10 Aromatics (Unadj.)	612000	53000	27000	ug/kg	
	C5- C8 Aliphatics	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics	383000	150000	80000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	116%		70-130%
460-00-4	BFB	104%		70-130%

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:	2465-F-001		
Lab Sample ID:	F24296-1	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	81.6
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13528.D	40	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	16000	6500	ug/kg	
208-96-8	Acenaphthylene	ND	16000	6500	ug/kg	
120-12-7	Anthracene	ND	16000	6500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	16000	6500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	16000	6500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	16000	6500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	16000	6500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	16000	6500	ug/kg	
218-01-9	Chrysene	ND	16000	6500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	16000	6500	ug/kg	
206-44-0	Fluoranthene	ND	16000	6500	ug/kg	
86-73-7	Fluorene	ND	16000	6500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	16000	6500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	16000	6500	ug/kg	
91-20-3	Naphthalene	ND	16000	6500	ug/kg	
85-01-8	Phenanthrene	ND	16000	6500	ug/kg	
129-00-0	Pyrene	ND	16000	6500	ug/kg	
	C11-C22 Aromatics (Unadj.)	478000	320000	320000	ug/kg	
	C9-C18 Aliphatics	3160000	320000	320000	ug/kg	
	C11-C22 Aromatics	478000	320000	320000	ug/kg	
	C19-C36 Aliphatics	ND	320000	320000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2465-NW-002		
Lab Sample ID:	F24296-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	81.1
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013434.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.81 g	5.0 ml	2.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	13000	5300	ug/kg	
100-41-4	Ethylbenzene	ND	13000	6600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	40000	13000	ug/kg	
91-20-3	Naphthalene	ND	27000	15000	ug/kg	
108-88-3	Toluene	ND	40000	13000	ug/kg	
	m,p-Xylene	ND	53000	20000	ug/kg	
95-47-6	o-Xylene	ND	27000	13000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	677000	150000	80000	ug/kg	
	C9- C10 Aromatics (Unadj.)	342000	53000	27000	ug/kg	
	C5- C8 Aliphatics	ND	200000	110000	ug/kg	
	C9- C12 Aliphatics	329000	150000	80000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	99%		70-130%
460-00-4	BFB	114%		70-130%

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:	2465-NW-002		
Lab Sample ID:	F24296-2	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	81.1
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13530.D	20	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	8000	3200	ug/kg	
208-96-8	Acenaphthylene	ND	8000	3200	ug/kg	
120-12-7	Anthracene	ND	8000	3200	ug/kg	
56-55-3	Benzo(a)anthracene	ND	8000	3200	ug/kg	
50-32-8	Benzo(a)pyrene	ND	8000	3200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	8000	3200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	8000	3200	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	8000	3200	ug/kg	
218-01-9	Chrysene	ND	8000	3200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8000	3200	ug/kg	
206-44-0	Fluoranthene	ND	8000	3200	ug/kg	
86-73-7	Fluorene	ND	8000	3200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	8000	3200	ug/kg	
91-57-6	2-Methylnaphthalene	14900	8000	3200	ug/kg	
91-20-3	Naphthalene	ND	8000	3200	ug/kg	
85-01-8	Phenanthrene	ND	8000	3200	ug/kg	
129-00-0	Pyrene	ND	8000	3200	ug/kg	
	C11-C22 Aromatics (Unadj.)	440000	160000	160000	ug/kg	
	C9-C18 Aliphatics	1400000	160000	160000	ug/kg	
	C11-C22 Aromatics	425000	160000	160000	ug/kg	
	C19-C36 Aliphatics	ND	160000	160000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2465-EW-003		
Lab Sample ID:	F24296-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	81.7
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013435.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.99 g	5.0 ml	5.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5100	2000	ug/kg	
100-41-4	Ethylbenzene	ND	5100	2600	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	15000	5100	ug/kg	
91-20-3	Naphthalene	10400	10000	5600	ug/kg	
108-88-3	Toluene	ND	15000	5100	ug/kg	
	m,p-Xylene	ND	20000	7700	ug/kg	
95-47-6	o-Xylene	ND	10000	5100	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	77000	41000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	478000	56000	31000	ug/kg	
	C9- C10 Aromatics (Unadj.)	286000	20000	10000	ug/kg	
	C5- C8 Aliphatics	ND	77000	41000	ug/kg	
	C9- C12 Aliphatics	191000	56000	31000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	76%		70-130%
460-00-4	BFB	77%		70-130%

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:	2465-EW-003		
Lab Sample ID:	F24296-3	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	81.7
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13531.D	20	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2	ZF13594.D	40	06/04/04	ME	05/25/04	OP10518	GZF632

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2	30.6 g	2.0 ml

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	8000	3200	ug/kg	
208-96-8	Acenaphthylene	ND	8000	3200	ug/kg	
120-12-7	Anthracene	ND	8000	3200	ug/kg	
56-55-3	Benzo(a)anthracene	ND	8000	3200	ug/kg	
50-32-8	Benzo(a)pyrene	ND	8000	3200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	8000	3200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	8000	3200	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	8000	3200	ug/kg	
218-01-9	Chrysene	ND	8000	3200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8000	3200	ug/kg	
206-44-0	Fluoranthene	ND	8000	3200	ug/kg	
86-73-7	Fluorene	ND	8000	3200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	8000	3200	ug/kg	
91-57-6	2-Methylnaphthalene	11900	8000	3200	ug/kg	
91-20-3	Naphthalene	3280	8000	3200	ug/kg	J
85-01-8	Phenanthrene	ND	8000	3200	ug/kg	
129-00-0	Pyrene	ND	8000	3200	ug/kg	
	C11-C22 Aromatics (Unadj.)	240000	160000	160000	ug/kg	
	C9-C18 Aliphatics	1960000 [a]	320000	320000	ug/kg	
	C11-C22 Aromatics	225000	160000	160000	ug/kg	
	C19-C36 Aliphatics	ND	160000	160000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	64%	0% [b]	40-140%
580-13-2	2-Bromonaphthalene	82%	0% [b]	40-140%
84-15-1	o-Terphenyl	75%	0% [b]	40-140%
321-60-8	2-Fluorobiphenyl	88%	0% [b]	40-140%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

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:	2465-WW-004		
Lab Sample ID:	F24296-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	80.0
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013436.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.00 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2600	1000	ug/kg	
100-41-4	Ethylbenzene	ND	2600	1300	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	7800	2600	ug/kg	
91-20-3	Naphthalene	ND	5200	2900	ug/kg	
108-88-3	Toluene	ND	7800	2600	ug/kg	
	m,p-Xylene	ND	10000	3900	ug/kg	
95-47-6	o-Xylene	ND	5200	2600	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	39000	21000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	128000	29000	16000	ug/kg	
	C9- C10 Aromatics (Unadj.)	68900	10000	5200	ug/kg	
	C5- C8 Aliphatics	ND	39000	21000	ug/kg	
	C9- C12 Aliphatics	59200	29000	16000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	85%		70-130%
460-00-4	BFB	98%		70-130%

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:	2465-WW-004		
Lab Sample ID:	F24296-4	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	80.0
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13533.D	40	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	16000	6500	ug/kg	
208-96-8	Acenaphthylene	ND	16000	6500	ug/kg	
120-12-7	Anthracene	ND	16000	6500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	16000	6500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	16000	6500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	16000	6500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	16000	6500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	16000	6500	ug/kg	
218-01-9	Chrysene	ND	16000	6500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	16000	6500	ug/kg	
206-44-0	Fluoranthene	ND	16000	6500	ug/kg	
86-73-7	Fluorene	ND	16000	6500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	16000	6500	ug/kg	
91-57-6	2-Methylnaphthalene	13500	16000	6500	ug/kg	J
91-20-3	Naphthalene	ND	16000	6500	ug/kg	
85-01-8	Phenanthrene	ND	16000	6500	ug/kg	
129-00-0	Pyrene	ND	16000	6500	ug/kg	
	C11-C22 Aromatics (Unadj.)	374000	330000	330000	ug/kg	
	C9-C18 Aliphatics	2570000	330000	330000	ug/kg	
	C11-C22 Aromatics	355000	330000	330000	ug/kg	
	C19-C36 Aliphatics	ND	330000	330000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2465-SW-005		
Lab Sample ID:	F24296-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP VPH	Percent Solids:	85.0
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013437.D	1	06/02/04	NJ	n/a	n/a	GUV806
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.72 g	5.0 ml	2.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	13000	5100	ug/kg	
100-41-4	Ethylbenzene	ND	13000	6400	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	39000	13000	ug/kg	
91-20-3	Naphthalene	20500	26000	14000	ug/kg	J
108-88-3	Toluene	ND	39000	13000	ug/kg	
	m,p-Xylene	ND	51000	19000	ug/kg	
95-47-6	o-Xylene	ND	26000	13000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	190000	100000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	740000	140000	77000	ug/kg	
	C9- C10 Aromatics (Unadj.)	393000	51000	26000	ug/kg	
	C5- C8 Aliphatics	ND	190000	100000	ug/kg	
	C9- C12 Aliphatics	347000	140000	77000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	85%		70-130%
460-00-4	BFB	89%		70-130%

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:	2465-SW-005		
Lab Sample ID:	F24296-5	Date Sampled:	05/20/04
Matrix:	SO - Soil	Date Received:	05/21/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	85.0
Project:	Camp Lejeune-TT2465		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13534.D	80	05/31/04	ME	05/25/04	OP10518	GZF629
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	31000	12000	ug/kg	
208-96-8	Acenaphthylene	ND	31000	12000	ug/kg	
120-12-7	Anthracene	ND	31000	12000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	31000	12000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	31000	12000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	31000	12000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	31000	12000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	31000	12000	ug/kg	
218-01-9	Chrysene	ND	31000	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31000	12000	ug/kg	
206-44-0	Fluoranthene	ND	31000	12000	ug/kg	
86-73-7	Fluorene	ND	31000	12000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	31000	12000	ug/kg	
91-57-6	2-Methylnaphthalene	34900	31000	12000	ug/kg	
91-20-3	Naphthalene	12900	31000	12000	ug/kg	J
85-01-8	Phenanthrene	ND	31000	12000	ug/kg	
129-00-0	Pyrene	ND	31000	12000	ug/kg	
	C11-C22 Aromatics (Unadj.)	629000	620000	620000	ug/kg	
	C9-C18 Aliphatics	4100000	620000	620000	ug/kg	
	C11-C22 Aromatics	ND	620000	620000	ug/kg	
	C19-C36 Aliphatics	ND	620000	620000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2471-NB-001		
Lab Sample ID:	F23987-1	Date Sampled:	05/07/04
Matrix:	SO - Soil	Date Received:	05/08/04
Method:	SW846 8015	Percent Solids:	82.0
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013052.D	1	05/11/04	NJ	n/a	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.35 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	70.9	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	66% [a]		62-135%
460-00-4	4-Bromofluorobenzene	56% [b]		62-135%
98-08-8	aaa-Trifluorotoluene	81%		65-118%

(a) Result reported from PID.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2471-NB-001		
Lab Sample ID:	F23987-1	Date Sampled:	05/07/04
Matrix:	SO - Soil	Date Received:	05/08/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	82.0
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13210.D	100	05/11/04	SM	05/10/04	OP10385	GZF613
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	7710	1000	600	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		65-118%

(a) Outside control limits due to dilution.

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:	2471-SB-002		
Lab Sample ID:	F23987-2	Date Sampled:	05/07/04
Matrix:	SO - Soil	Date Received:	05/08/04
Method:	SW846 8015	Percent Solids:	88.4
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013053.D	1	05/11/04	NJ	n/a	n/a	GUV784
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.55 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	2.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		62-135%
98-08-8	aaa-Trifluorotoluene	83%		65-118%

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:	2471-SB-002		
Lab Sample ID:	F23987-2	Date Sampled:	05/07/04
Matrix:	SO - Soil	Date Received:	05/08/04
Method:	SW846 8015 M SW846 3550B	Percent Solids:	88.4
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13197.D	1	05/11/04	SM	05/10/04	OP10385	GZF613
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	65.4	9.3	5.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		65-118%

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

Southeast
ACCUTEST.
Laboratories

06/07/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2471

102463

Accutest Job Number: F24344

Sampling Date: 05/21/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 54

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24344

Camp Lejeune-TT2471
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F24344-1	05/21/04	09:40	MM	05/22/04	SO	Soil	2471-F-001
F24344-2	05/21/04	10:10	MM	05/22/04	SO	Soil	2471-NW-002
F24344-3	05/21/04	10:50	MM	05/22/04	SO	Soil	2471-EW-003
F24344-4	05/21/04	11:25	MM	05/22/04	SO	Soil	2471-WW-004
F24344-5	05/21/04	12:00	MM	05/22/04	SO	Soil	2471-SW-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2471-F-001		
Lab Sample ID:	F24344-1	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP VPH	Percent Solids:	86.5
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013506.D	1	06/04/04	NJ	n/a	n/a	GUV810
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.63 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	310	120	ug/kg	
100-41-4	Ethylbenzene	ND	310	160	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	940	310	ug/kg	
91-20-3	Naphthalene	ND	620	340	ug/kg	
108-88-3	Toluene	ND	940	310	ug/kg	
	m,p-Xylene	ND	1200	470	ug/kg	
95-47-6	o-Xylene	ND	620	310	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3400	1900	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	620	ug/kg	
	C5- C8 Aliphatics	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics	ND	3400	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	93%		70-130%
460-00-4	BFB	93%		70-130%

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:	2471-F-001		
Lab Sample ID:	F24344-1	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	86.5
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13554.D	1	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	380	150	ug/kg	
208-96-8	Acenaphthylene	ND	380	150	ug/kg	
120-12-7	Anthracene	ND	380	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	150	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	150	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	150	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	150	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	150	ug/kg	
218-01-9	Chrysene	ND	380	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	150	ug/kg	
206-44-0	Fluoranthene	ND	380	150	ug/kg	
86-73-7	Fluorene	ND	380	150	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	150	ug/kg	
91-20-3	Naphthalene	ND	380	150	ug/kg	
85-01-8	Phenanthrene	ND	380	150	ug/kg	
129-00-0	Pyrene	ND	380	150	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	7700	7700	ug/kg	
	C9-C18 Aliphatics	ND	7700	7700	ug/kg	
	C11-C22 Aromatics	ND	7700	7700	ug/kg	
	C19-C36 Aliphatics	ND	7700	7700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	61%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	84%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%

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:	2471-NW-002		
Lab Sample ID:	F24344-2	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP VPH	Percent Solids:	78.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013536.D	1	06/07/04	NJ	n/a	n/a	GUV812
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.93 g	5.0 ml	25.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1300	520	ug/kg	
100-41-4	Ethylbenzene	ND	1300	640	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	3900	1300	ug/kg	
91-20-3	Naphthalene	1820	2600	1400	ug/kg	J
108-88-3	Toluene	ND	3900	1300	ug/kg	
	m,p-Xylene	ND	5200	1900	ug/kg	
95-47-6	o-Xylene	ND	2600	1300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	19000	10000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	98700	14000	7700	ug/kg	
	C9- C10 Aromatics (Unadj.)	55900	5200	2600	ug/kg	
	C5- C8 Aliphatics	ND	19000	10000	ug/kg	
	C9- C12 Aliphatics	42000	14000	7700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	79%		70-130%
460-00-4	BFB	76%		70-130%

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:	2471-NW-002		
Lab Sample ID:	F24344-2	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13555.D	10	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4200	1700	ug/kg	
208-96-8	Acenaphthylene	ND	4200	1700	ug/kg	
120-12-7	Anthracene	ND	4200	1700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4200	1700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4200	1700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4200	1700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4200	1700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4200	1700	ug/kg	
218-01-9	Chrysene	ND	4200	1700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4200	1700	ug/kg	
206-44-0	Fluoranthene	ND	4200	1700	ug/kg	
86-73-7	Fluorene	ND	4200	1700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4200	1700	ug/kg	
91-57-6	2-Methylnaphthalene	2070	4200	1700	ug/kg	J
91-20-3	Naphthalene	ND	4200	1700	ug/kg	
85-01-8	Phenanthrene	ND	4200	1700	ug/kg	
129-00-0	Pyrene	ND	4200	1700	ug/kg	
	C11-C22 Aromatics (Unadj.)	245000	84000	84000	ug/kg	
	C9-C18 Aliphatics	381000	84000	84000	ug/kg	
	C11-C22 Aromatics	241000	84000	84000	ug/kg	
	C19-C36 Aliphatics	89400	84000	84000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	77%		40-140%
580-13-2	2-Bromonaphthalene	115%		40-140%
84-15-1	o-Terphenyl	126%		40-140%
321-60-8	2-Fluorobiphenyl	124%		40-140%

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:	2471-EW-003		
Lab Sample ID:	F24344-3	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP VPH	Percent Solids:	79.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013537.D	1	06/07/04	NJ	n/a	n/a	GUV812
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.80 g	5.0 ml	50.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	540	220	ug/kg	
100-41-4	Ethylbenzene	ND	540	270	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1600	540	ug/kg	
91-20-3	Naphthalene	873	1100	590	ug/kg	J
108-88-3	Toluene	ND	1600	540	ug/kg	
	m,p-Xylene	ND	2200	810	ug/kg	
95-47-6	o-Xylene	ND	1100	540	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	8100	4300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	39200	5900	3200	ug/kg	
	C9- C10 Aromatics (Unadj.)	23000	2200	1100	ug/kg	
	C5- C8 Aliphatics	ND	8100	4300	ug/kg	
	C9- C12 Aliphatics	16200	5900	3200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	95%		70-130%

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:	2471-EW-003		
Lab Sample ID:	F24344-3	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13578.D	20	06/03/04	ME	05/27/04	OP10532	GZF631
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	8300	3300	ug/kg	
208-96-8	Acenaphthylene	ND	8300	3300	ug/kg	
120-12-7	Anthracene	ND	8300	3300	ug/kg	
56-55-3	Benzo(a)anthracene	ND	8300	3300	ug/kg	
50-32-8	Benzo(a)pyrene	ND	8300	3300	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	8300	3300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	8300	3300	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	8300	3300	ug/kg	
218-01-9	Chrysene	ND	8300	3300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8300	3300	ug/kg	
206-44-0	Fluoranthene	ND	8300	3300	ug/kg	
86-73-7	Fluorene	3620	8300	3300	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	8300	3300	ug/kg	
91-57-6	2-Methylnaphthalene	15200	8300	3300	ug/kg	
91-20-3	Naphthalene	ND	8300	3300	ug/kg	
85-01-8	Phenanthrene	3370	8300	3300	ug/kg	J
129-00-0	Pyrene	ND	8300	3300	ug/kg	
	C11-C22 Aromatics (Unadj.)	820000	170000	170000	ug/kg	
	C9-C18 Aliphatics	1340000	170000	170000	ug/kg	
	C11-C22 Aromatics	795000	170000	170000	ug/kg	
	C19-C36 Aliphatics	281000	170000	170000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	SW846 8260B SW846 5035	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025741.D	1	06/04/04	NAF	05/22/04 13:25	n/a	VH962
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	2.79 g	5.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	6000	3000	ug/kg	
71-43-2	Benzene	ND	600	240	ug/kg	
75-27-4	Bromodichloromethane	ND	600	240	ug/kg	
75-25-2	Bromoform	ND	600	240	ug/kg	
108-90-7	Chlorobenzene	ND	600	240	ug/kg	
75-00-3	Chloroethane	ND	600	240	ug/kg	
67-66-3	Chloroform	ND	600	240	ug/kg	
75-15-0	Carbon disulfide	ND	600	240	ug/kg	
56-23-5	Carbon tetrachloride	ND	600	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	600	240	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	600	360	ug/kg	
107-06-2	1,2-Dichloroethane	ND	600	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	600	240	ug/kg	
124-48-1	Dibromochloromethane	ND	600	240	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	600	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	600	240	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	600	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	600	240	ug/kg	
100-41-4	Ethylbenzene	ND	600	240	ug/kg	
591-78-6	2-Hexanone	ND	3000	1200	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	3000	1200	ug/kg	
74-83-9	Methyl bromide	ND	600	240	ug/kg	
74-87-3	Methyl chloride	ND	600	240	ug/kg	
75-09-2	Methylene chloride	ND	1200	600	ug/kg	
78-93-3	Methyl ethyl ketone	ND	3000	1200	ug/kg	
100-42-5	Styrene	ND	600	240	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	600	240	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	600	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	600	240	ug/kg	
127-18-4	Tetrachloroethylene	ND	600	240	ug/kg	
108-88-3	Toluene	ND	600	240	ug/kg	
79-01-6	Trichloroethylene	ND	600	240	ug/kg	

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	SW846 8260B SW846 5035	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	600	300	ug/kg	
1330-20-7	Xylene (total)	ND	1800	540	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		78-123%
2037-26-5	Toluene-D8	98%		71-137%
460-00-4	4-Bromofluorobenzene	110%		61-157%
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%

(a) Methanol extract analysis required due to matrix interference (non-target analytes present above calibration range).

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021674.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1100	660	ug/kg	
95-57-8	2-Chlorophenol	ND	220	44	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	44	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	44	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	44	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	440	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	440	89	ug/kg	
95-48-7	2-Methylphenol	ND	220	44	ug/kg	
	3&4-Methylphenol	ND	220	44	ug/kg	
88-75-5	2-Nitrophenol	ND	220	44	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	440	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	440	ug/kg	
108-95-2	Phenol	ND	220	44	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	44	ug/kg	
83-32-9	Acenaphthene	86.4	220	44	ug/kg	J
208-96-8	Acenaphthylene	ND	220	44	ug/kg	
120-12-7	Anthracene	ND	220	44	ug/kg	
56-55-3	Benzo(a)anthracene	ND	220	44	ug/kg	
50-32-8	Benzo(a)pyrene	ND	220	44	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	220	44	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	220	89	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	220	44	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	220	44	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	440	110	ug/kg	
100-51-6	Benzyl Alcohol	ND	220	44	ug/kg	
91-58-7	2-Chloronaphthalene	ND	220	44	ug/kg	
106-47-8	4-Chloroaniline	ND	890	330	ug/kg	
86-74-8	Carbazole	ND	220	44	ug/kg	
218-01-9	Chrysene	ND	220	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	220	44	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	220	89	ug/kg	

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	220	44	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	220	44	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	220	44	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	220	44	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	220	44	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	220	89	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	220	89	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	220	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	220	89	ug/kg	
132-64-9	Dibenzofuran	99.5	220	44	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	440	110	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	440	220	ug/kg	
84-66-2	Diethyl phthalate	ND	440	110	ug/kg	
131-11-3	Dimethyl phthalate	ND	440	110	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	220	ug/kg	
206-44-0	Fluoranthene	ND	220	44	ug/kg	
86-73-7	Fluorene	243	220	44	ug/kg	
118-74-1	Hexachlorobenzene	ND	220	44	ug/kg	
87-68-3	Hexachlorobutadiene	ND	220	89	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	220	89	ug/kg	
67-72-1	Hexachloroethane	ND	220	89	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	220	89	ug/kg	
78-59-1	Isophorone	ND	220	44	ug/kg	
91-57-6	2-Methylnaphthalene	467	220	44	ug/kg	
88-74-4	2-Nitroaniline	ND	440	110	ug/kg	
99-09-2	3-Nitroaniline	ND	440	110	ug/kg	
100-01-6	4-Nitroaniline	ND	440	110	ug/kg	
91-20-3	Naphthalene	98.9	220	44	ug/kg	J
98-95-3	Nitrobenzene	ND	220	44	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	220	89	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	44	ug/kg	
85-01-8	Phenanthrene	417	220	44	ug/kg	
129-00-0	Pyrene	ND	220	89	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	220	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		45-114%
4165-62-2	Phenol-d5	78%		44-124%
118-79-6	2,4,6-Tribromophenol	85%		50-128%

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		41-123%
321-60-8	2-Fluorobiphenyl	78%		46-122%
1718-51-0	Terphenyl-d14	85%		45-135%

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP VPH	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013523.D	1	06/05/04	NJ	n/a	n/a	GUV811
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.55 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	910	300	ug/kg	
91-20-3	Naphthalene	785	610	330	ug/kg	
108-88-3	Toluene	ND	910	300	ug/kg	
	m,p-Xylene	ND	1200	450	ug/kg	
95-47-6	o-Xylene	ND	610	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	31800	3300	1800	ug/kg	
	C9- C10 Aromatics (Unadj.)	19500	1200	610	ug/kg	
	C5- C8 Aliphatics	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics	12300	3300	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	96%		70-130%
460-00-4	BFB	103%		70-130%

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:	2471-WW-004		
Lab Sample ID:	F24344-4	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	74.3
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13579.D	4	06/03/04	ME	05/27/04	OP10532	GZF631
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1800	710	ug/kg	
208-96-8	Acenaphthylene	ND	1800	710	ug/kg	
120-12-7	Anthracene	ND	1800	710	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1800	710	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1800	710	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1800	710	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1800	710	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1800	710	ug/kg	
218-01-9	Chrysene	ND	1800	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1800	710	ug/kg	
206-44-0	Fluoranthene	ND	1800	710	ug/kg	
86-73-7	Fluorene	ND	1800	710	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1800	710	ug/kg	
91-57-6	2-Methylnaphthalene	738	1800	710	ug/kg	J
91-20-3	Naphthalene	ND	1800	710	ug/kg	
85-01-8	Phenanthrene	ND	1800	710	ug/kg	
129-00-0	Pyrene	ND	1800	710	ug/kg	
	C11-C22 Aromatics (Unadj.)	105000	36000	36000	ug/kg	
	C9-C18 Aliphatics	218000	36000	36000	ug/kg	
	C11-C22 Aromatics	103000	36000	36000	ug/kg	
	C19-C36 Aliphatics	54200	36000	36000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	77%		40-140%
580-13-2	2-Bromonaphthalene	93%		40-140%
84-15-1	o-Terphenyl	102%		40-140%
321-60-8	2-Fluorobiphenyl	97%		40-140%

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:	2471-SW-005		
Lab Sample ID:	F24344-5	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP VPH	Percent Solids:	79.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013538.D	1	06/07/04	NJ	n/a	n/a	GUV812
Run #2 [a]	UV013524.D	1	06/05/04	NJ	n/a	n/a	GUV811

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.68 g	5.0 ml	20.0 ul
Run #2	5.68 g	5.0 ml	100 ul

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1400	550	ug/kg	
100-41-4	Ethylbenzene	ND	1400	690	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4100	1400	ug/kg	
91-20-3	Naphthalene	4320	2800	1500	ug/kg	
108-88-3	Toluene	ND	4100	1400	ug/kg	
	m,p-Xylene	ND	5500	2100	ug/kg	
95-47-6	o-Xylene	ND	2800	1400	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	21000	11000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	110000	15000	8300	ug/kg	
	C9- C10 Aromatics (Unadj.)	65200	5500	2800	ug/kg	
	C5- C8 Aliphatics	ND	21000	11000	ug/kg	
	C9- C12 Aliphatics	44400	15000	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	83%	95%	70-130%
460-00-4	BFB	78%	107%	70-130%

(a) Confirmation run.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	2471-SW-005		
Lab Sample ID:	F24344-5	Date Sampled:	05/21/04
Matrix:	SO - Soil	Date Received:	05/22/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.7
Project:	Camp Lejeune-TT2471		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13558.D	20	06/02/04	ME	05/27/04	OP10532	GZF630
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	8300	3300	ug/kg	
208-96-8	Acenaphthylene	ND	8300	3300	ug/kg	
120-12-7	Anthracene	ND	8300	3300	ug/kg	
56-55-3	Benzo(a)anthracene	ND	8300	3300	ug/kg	
50-32-8	Benzo(a)pyrene	ND	8300	3300	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	8300	3300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	8300	3300	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	8300	3300	ug/kg	
218-01-9	Chrysene	ND	8300	3300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8300	3300	ug/kg	
206-44-0	Fluoranthene	ND	8300	3300	ug/kg	
86-73-7	Fluorene	4350	8300	3300	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	8300	3300	ug/kg	
91-57-6	2-Methylnaphthalene	18100	8300	3300	ug/kg	
91-20-3	Naphthalene	3410	8300	3300	ug/kg	J
85-01-8	Phenanthrene	4020	8300	3300	ug/kg	J
129-00-0	Pyrene	ND	8300	3300	ug/kg	
	C11-C22 Aromatics (Unadj.)	1070000	170000	170000	ug/kg	
	C9-C18 Aliphatics	1550000	170000	170000	ug/kg	
	C11-C22 Aromatics	1040000	170000	170000	ug/kg	
	C19-C36 Aliphatics	340000	170000	170000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:
102463-TT2471-052004

Shaw Environmental & Infrastructure, Inc.

F24344

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 - TT2471	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
102463	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	MEDEP EPH	MEDEP VPH	8260	8270									Field FID Readings
1	1	2471-F-001	5/21/04	0940		X	Excav 2465 Floor	7	X	X											
2	2	2471-NW-002	5/21/04	1010		X	Excav 2465 North Wall	4	X	X											
3	3	2471-EW-003	5/21/04	1050		X	Excav 2465 East Wall	4	X	X											
4	4	2471-WW-004	5/21/04	1125		X	Excav 2465 West Wall	4	X	X	X	X									
5	5	2471-SW-005	5/21/04	1200		X	Excav 2465 South Wall	4	X	X											
	6																				
	7																				
	8																				
	9																				
	10																				
	11																				

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-5		FedEx 8436 4375 7116	5/21/04	16:00	14 DAY TAT
2				05/21/04		3.4°
3						

F24344: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24344

Client: Shaw Project: TF2471

Date Received: 05/22/04 Time Received: 1000

# of Coolers Received: 1 Cooler Temperatures: 3.4°

Delivery Method: (FedEx) UPS Accutest Courier Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact ?	(Yes)	No	
Chain of Custody Provided ?	(Yes)	No	
COC Match Bottle Label ID's ?	(Yes)	No	
Sample Labels Present on all bottles ?	(Yes)	No	
All Analyses Marked On COC ?	(Yes)	No	
Are All Bottles Intact ?	(Yes)	No	
Samples Preserved Correctly ?	(Yes)	No	
Correct Number of Containers Used ?	(Yes)	No	
Sufficient Sample Volume ?	(Yes)	No	
Trip Blank Provided ?	Yes	(No)	
Trip Blank on COC ?	Yes	(No)	
Trip Blank Intact ?	Yes	No	(N/A)
Trip Blank Matrix ?	Soil	Water	(N/A)
Number of Encores ?	18		
Number of Soil Field Kits ?			

Summary of Comments: 1-3 & 5 Have 3 encores each
#4 Has 6 encores

Signature: [signature] Date: 05/22/04

Review Signature:

ASBD 12/30/03

F24344: Chain of Custody
Page 2 of 2

GC/MS 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: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH962-MB	H025732.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	3.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.5	ug/kg	

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH962-MB	H025732.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	78-123%
2037-26-5	Toluene-D8	115%	71-137%
460-00-4	4-Bromofluorobenzene	103%	61-157%
17060-07-0	1,2-Dichloroethane-D4	99%	74-125%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH962-BS	H025731.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	178	71	51-136
71-43-2	Benzene	50	49.7	99	74-124
75-27-4	Bromodichloromethane	50	48.0	96	74-124
75-25-2	Bromoform	50	40.8	82	79-127
108-90-7	Chlorobenzene	50	49.5	99	78-117
75-00-3	Chloroethane	50	49.2	98	63-147
67-66-3	Chloroform	50	47.7	95	75-121
75-15-0	Carbon disulfide	50	60.5	121	59-148
56-23-5	Carbon tetrachloride	50	50.4	101	67-131
75-34-3	1,1-Dichloroethane	50	49.0	98	71-118
75-35-4	1,1-Dichloroethylene	50	50.7	101	64-126
107-06-2	1,2-Dichloroethane	50	49.0	98	72-120
78-87-5	1,2-Dichloropropane	50	50.6	101	74-126
124-48-1	Dibromochloromethane	50	50.1	100	78-120
156-59-2	cis-1,2-Dichloroethylene	50	48.8	98	75-124
10061-01-5	cis-1,3-Dichloropropene	50	49.5	99	72-120
156-60-5	trans-1,2-Dichloroethylene	50	47.8	96	70-122
10061-02-6	trans-1,3-Dichloropropene	50	49.9	100	75-118
100-41-4	Ethylbenzene	50	49.4	99	77-120
591-78-6	2-Hexanone	250	250	100	68-136
108-10-1	4-Methyl-2-pentanone	250	259	104	69-136
74-83-9	Methyl bromide	50	46.6	93	52-156
74-87-3	Methyl chloride	50	51.8	104	63-142
75-09-2	Methylene chloride	50	63.4	127	51-142
78-93-3	Methyl ethyl ketone	250	217	87	63-138
100-42-5	Styrene	50	42.4	85	74-120
71-55-6	1,1,1-Trichloroethane	50	49.9	100	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	50.6	101	76-121
79-00-5	1,1,2-Trichloroethane	50	48.8	98	77-118
127-18-4	Tetrachloroethylene	50	49.0	98	68-127
108-88-3	Toluene	50	48.8	98	74-118
79-01-6	Trichloroethylene	50	48.9	98	72-122
75-01-4	Vinyl chloride	50	51.9	104	64-144
1330-20-7	Xylene (total)	150	139	93	78-122

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH962-BS	H025731.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	78-123%
2037-26-5	Toluene-D8	98%	71-137%
460-00-4	4-Bromofluorobenzene	100%	61-157%
17060-07-0	1,2-Dichloroethane-D4	98%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24349-7MS	H025747.D	1	06/04/04	NAF	n/a	n/a	VH962
F24349-7MSD	H025748.D	1	06/04/04	NAF	n/a	n/a	VH962
F24349-7 [a]	H025736.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Compound	F24349-7 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		298	118	40	122	39	3	14-140/33
71-43-2	Benzene	ND		59.6	59.7	100	64.2	104	7	63-135/23
75-27-4	Bromodichloromethane	ND		59.6	56.3	94	61.7	100	9	63-126/23
75-25-2	Bromoform	ND		59.6	45.6	76	47.9	78	5	54-109/24
108-90-7	Chlorobenzene	ND		59.6	56.8	95	61.1	99	7	64-130/24
75-00-3	Chloroethane	ND		59.6	61.4	103	63.0	102	3	53-172/28
67-66-3	Chloroform	ND		59.6	58.5	98	62.5	101	7	68-131/24
75-15-0	Carbon disulfide	ND		59.6	72.7	122	78.0	126	7	47-165/29
56-23-5	Carbon tetrachloride	ND		59.6	62.5	105	65.4	106	5	64-148/24
75-34-3	1,1-Dichloroethane	ND		59.6	60.3	101	64.4	104	7	64-130/25
75-35-4	1,1-Dichloroethylene	ND		59.6	61.9	104	67.0	108	8	55-149/28
107-06-2	1,2-Dichloroethane	ND		59.6	53.9	90	58.7	95	9	60-114/22
78-87-5	1,2-Dichloropropane	ND		59.6	59.7	100	66.0	107	10	65-128/23
124-48-1	Dibromochloromethane	ND		59.6	53.9	90	56.9	92	5	60-119/23
156-59-2	cis-1,2-Dichloroethylene	ND		59.6	58.4	98	63.5	103	8	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		59.6	54.2	91	59.5	96	9	57-118/25
156-60-5	trans-1,2-Dichloroethylene	ND		59.6	58.9	99	61.8	100	5	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		59.6	52.3	88	56.7	92	8	58-115/25
100-41-4	Ethylbenzene	ND		59.6	57.7	97	60.6	98	5	63-142/25
591-78-6	2-Hexanone	ND		298	195	65	210	68	7	35-109/34
108-10-1	4-Methyl-2-pentanone	ND		298	215	72	232	75	8	44-99/32
74-83-9	Methyl bromide	ND		59.6	58.8	99	63.5	103	8	38-188/27
74-87-3	Methyl chloride	ND		59.6	63.3	106	68.4	111	8	57-160/29
75-09-2	Methylene chloride	ND		59.6	70.4	118	79.3	128	12	40-183/34
78-93-3	Methyl ethyl ketone	ND		298	163	55	166	54	2	27-112/32
100-42-5	Styrene	ND		59.6	54.9	92	57.0	92	4	54-130/26
71-55-6	1,1,1-Trichloroethane	ND		59.6	62.0	104	65.1	105	5	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		59.6	54.2	91	57.7	93	6	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		59.6	51.4	86	57.0	92	10	60-114/25
127-18-4	Tetrachloroethylene	ND		59.6	56.7	95	56.3	91	1	54-154/27
108-88-3	Toluene	ND		59.6	58.2	98	63.9	103	9	62-142/29
79-01-6	Trichloroethylene	ND		59.6	65.5	110	71.7	116	9	59-143/25
75-01-4	Vinyl chloride	ND		59.6	64.8	109	70.0	113	8	64-165/27
1330-20-7	Xylene (total)	ND		179	169	94	178	96	5	64-142/24

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24349-7MS	H025747.D	1	06/04/04	NAF	n/a	n/a	VH962
F24349-7MSD	H025748.D	1	06/04/04	NAF	n/a	n/a	VH962
F24349-7 [a]	H025736.D	1	06/04/04	NAF	n/a	n/a	VH962

The QC reported here applies to the following samples: Method: SW846 8260B

F24344-4

CAS No.	Surrogate Recoveries	MS	MSD	F24349-7	Limits
1868-53-7	Dibromofluoromethane	96%	96%	97%	78-123%
2037-26-5	Toluene-D8	98%	99%	119%	71-137%
460-00-4	4-Bromofluorobenzene	104%	104%	118%	61-157%
17060-07-0	1,2-Dichloroethane-D4	89%	87%	100%	74-125%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.

GC/MS Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MB	L021662.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	500	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	670	250	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MB	L021662.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	83	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	76%	45-114%
4165-62-2	Phenol-d5	78%	44-124%

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MB	L021662.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	72%	50-128%
4165-60-0	Nitrobenzene-d5	80%	41-123%
321-60-8	2-Fluorobiphenyl	77%	46-122%
1718-51-0	Terphenyl-d14	87%	45-135%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-BS	L021661.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2610	78	43-117
95-57-8	2-Chlorophenol	1670	1380	83	70-102
59-50-7	4-Chloro-3-methyl phenol	1670	1540	92	70-103
120-83-2	2,4-Dichlorophenol	1670	1540	92	70-101
105-67-9	2,4-Dimethylphenol	1670	1390	83	39-100
51-28-5	2,4-Dinitrophenol	3330	2650	80	34-131
534-52-1	4,6-Dinitro-o-cresol	3330	3130	94	55-122
95-48-7	2-Methylphenol	1670	1330	80	66-100
	3&4-Methylphenol	3330	2650	80	68-100
88-75-5	2-Nitrophenol	1670	1440	86	70-102
100-02-7	4-Nitrophenol	3330	3700	111	63-112
87-86-5	Pentachlorophenol	3330	2310	69	58-111
108-95-2	Phenol	1670	1320	79	68-99
95-95-4	2,4,5-Trichlorophenol	1670	1560	94	72-103
88-06-2	2,4,6-Trichlorophenol	1670	1590	95	68-100
83-32-9	Acenaphthene	1670	1620	97	73-100
208-96-8	Acenaphthylene	1670	1650	99	82-111
120-12-7	Anthracene	1670	1650	99	76-106
56-55-3	Benzo(a)anthracene	1670	1640	98	76-105
50-32-8	Benzo(a)pyrene	1670	1710	103	74-116
205-99-2	Benzo(b)fluoranthene	1670	1660	100	73-114
191-24-2	Benzo(g,h,i)perylene	1670	1700	102	67-115
207-08-9	Benzo(k)fluoranthene	1670	1690	101	72-115
101-55-3	4-Bromophenyl phenyl ether	1670	1550	93	76-102
85-68-7	Butyl benzyl phthalate	1670	1510	91	70-111
100-51-6	Benzyl Alcohol	1670	1320	79	69-111
91-58-7	2-Chloronaphthalene	1670	1510	91	73-101
106-47-8	4-Chloroaniline	1670	929	56	18-101
86-74-8	Carbazole	1670	1530	92	74-113
218-01-9	Chrysene	1670	1670	100	76-102
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	61-101
111-44-4	bis(2-Chloroethyl)ether	1670	1260	76	70-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1310	79	61-113
7005-72-3	4-Chlorophenyl phenyl ether	1670	1610	97	75-103
95-50-1	1,2-Dichlorobenzene	1670	1300	78	69-101
541-73-1	1,3-Dichlorobenzene	1670	1240	74	67-100

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-BS	L021661.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1280	77	69-100
121-14-2	2,4-Dinitrotoluene	1670	1620	97	74-112
606-20-2	2,6-Dinitrotoluene	1670	1620	97	74-114
91-94-1	3,3'-Dichlorobenzidine	1670	1020	61	30-102
53-70-3	Dibenzo(a,h)anthracene	1670	1600	96	66-116
132-64-9	Dibenzofuran	1670	1560	94	75-101
84-74-2	Di-n-butyl phthalate	1670	1470	88	75-109
117-84-0	Di-n-octyl phthalate	1670	1450	87	64-128
84-66-2	Diethyl phthalate	1670	1640	98	75-109
131-11-3	Dimethyl phthalate	1670	1580	95	76-106
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1420	85	69-115
206-44-0	Fluoranthene	1670	1570	94	76-112
86-73-7	Fluorene	1670	1690	101	75-105
118-74-1	Hexachlorobenzene	1670	1520	91	76-103
87-68-3	Hexachlorobutadiene	1670	1230	74	62-91
77-47-4	Hexachlorocyclopentadiene	1670	1080	65	33-112
67-72-1	Hexachloroethane	1670	1300	78	68-104
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1630	98	67-119
78-59-1	Isophorone	1670	1380	83	74-103
91-57-6	2-Methylnaphthalene	1670	1350	81	71-100
88-74-4	2-Nitroaniline	1670	1710	103	75-109
99-09-2	3-Nitroaniline	1670	1140	68	47-103
100-01-6	4-Nitroaniline	1670	1460	88	60-113
91-20-3	Naphthalene	1670	1390	83	73-100
98-95-3	Nitrobenzene	1670	1380	83	73-101
621-64-7	N-Nitroso-di-n-propylamine	1670	1240	74	69-104
86-30-6	N-Nitrosodiphenylamine	1670	1590	95	80-113
85-01-8	Phenanthrene	1670	1650	99	76-104
129-00-0	Pyrene	1670	1670	100	70-106
120-82-1	1,2,4-Trichlorobenzene	1670	1400	84	72-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	80%	45-114%
4165-62-2	Phenol-d5	79%	44-124%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-BS	L021661.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	86%	50-128%
4165-60-0	Nitrobenzene-d5	82%	41-123%
321-60-8	2-Fluorobiphenyl	82%	46-122%
1718-51-0	Terphenyl-d14	88%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MS	L021666.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
OP10516-MSD	L021667.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
F24341-3	L021665.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	F24341-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		3590	1580	44	1940	54	20	19-117/34
95-57-8	2-Chlorophenol	ND		1800	1250	70	1310	73	5	54-104/18
59-50-7	4-Chloro-3-methyl phenol	ND		1800	1430	80	1470	82	3	57-107/17
120-83-2	2,4-Dichlorophenol	ND		1800	1430	80	1480	82	3	49-108/20
105-67-9	2,4-Dimethylphenol	ND		1800	1390	77	1460	81	5	42-94/25
51-28-5	2,4-Dinitrophenol	ND		3590	1680	47	1860	52	10	22-114/22
534-52-1	4,6-Dinitro-o-cresol	ND		3590	2460	69	2590	72	5	35-117/25
95-48-7	2-Methylphenol	ND		1800	1220	68	1310	73	7	54-100/18
	3&4-Methylphenol	ND		3590	2450	68	2610	73	6	55-102/18
88-75-5	2-Nitrophenol	ND		1800	1280	71	1320	74	3	48-108/19
100-02-7	4-Nitrophenol	ND		3590	3190	89	3360	94	5	46-116/15
87-86-5	Pentachlorophenol	ND		3590	2250	63	2350	65	4	45-112/16
108-95-2	Phenol	ND		1800	1220	68	1260	70	3	54-104/17
95-95-4	2,4,5-Trichlorophenol	ND		1800	1390	77	1510	84	8	56-108/23
88-06-2	2,4,6-Trichlorophenol	ND		1800	1450	81	1480	82	2	57-102/14
83-32-9	Acenaphthene	ND		1800	1500	84	1560	87	4	57-108/19
208-96-8	Acenaphthylene	ND		1800	1490	83	1550	86	4	60-120/17
120-12-7	Anthracene	92.7	J	1800	1580	83	1630	86	3	68-105/16
56-55-3	Benzo(a)anthracene	204		1800	1620	79	1670	82	3	69-104/24
50-32-8	Benzo(a)pyrene	256		1800	1700	80	1760	84	3	66-114/26
205-99-2	Benzo(b)fluoranthene	302		1800	1690	77	1800	83	6	64-113/19
191-24-2	Benzo(g,h,i)perylene	122	J	1800	1530	78	1630	84	6	44-133/23
207-08-9	Benzo(k)fluoranthene	170	J	1800	1590	79	1640	82	3	63-111/23
101-55-3	4-Bromophenyl phenyl ether	ND		1800	1410	79	1430	80	1	67-102/15
85-68-7	Butyl benzyl phthalate	ND		1800	1340	75	1350	75	1	61-113/16
100-51-6	Benzyl Alcohol	ND		1800	1190	66	1260	70	6	57-111/17
91-58-7	2-Chloronaphthalene	ND		1800	1360	76	1430	80	5	60-103/15
106-47-8	4-Chloroaniline	ND		1800	1020	57	1080	60	6	22-104/27
86-74-8	Carbazole	69.2	J	1800	1440	76	1550	82	7	70-109/21
218-01-9	Chrysene	246		1800	1630	77	1690	80	4	68-102/25
111-91-1	bis(2-Chloroethoxy)methane	ND		1800	1050	58	1080	60	3	50-100/19
111-44-4	bis(2-Chloroethyl)ether	ND		1800	1130	63	1130	63	0	56-105/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		1800	1180	66	1210	67	3	48-112/18
7005-72-3	4-Chlorophenyl phenyl ether	ND		1800	1430	80	1470	82	3	64-105/13
95-50-1	1,2-Dichlorobenzene	ND		1800	1140	63	1180	66	3	55-99/18
541-73-1	1,3-Dichlorobenzene	ND		1800	1080	60	1090	61	1	53-98/19

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MS	L021666.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
OP10516-MSD	L021667.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
F24341-3	L021665.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Compound	F24341-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		1800	1130	63	1150	64	2	55-99/19
121-14-2	2,4-Dinitrotoluene	ND		1800	1370	76	1420	79	4	66-107/14
606-20-2	2,6-Dinitrotoluene	ND		1800	1410	79	1490	83	6	67-110/13
91-94-1	3,3'-Dichlorobenzidine	ND		1800	707	39	723	40	2	25-103/24
53-70-3	Dibenzo(a,h)anthracene	ND		1800	1460	81	1500	84	3	48-130/21
132-64-9	Dibenzofuran	ND		1800	1410	79	1490	83	6	65-102/13
84-74-2	Di-n-butyl phthalate	ND		1800	1360	76	1390	77	2	62-114/16
117-84-0	Di-n-octyl phthalate	ND		1800	1320	74	1340	75	2	61-120/18
84-66-2	Diethyl phthalate	ND		1800	1380	77	1450	81	5	67-104/13
131-11-3	Dimethyl phthalate	ND		1800	1350	75	1420	79	5	66-104/13
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1800	1320	74	1310	73	1	62-115/16
206-44-0	Fluoranthene	480		1800	1760	71	1760	71	0	58-122/22
86-73-7	Fluorene	51.2	J	1800	1530	82	1600	86	4	64-107/21
118-74-1	Hexachlorobenzene	ND		1800	1400	78	1460	81	4	66-103/16
87-68-3	Hexachlorobutadiene	ND		1800	1140	63	1110	62	3	49-90/18
77-47-4	Hexachlorocyclopentadiene	ND		1800	757	42	739	41	2	10-99/34
67-72-1	Hexachloroethane	ND		1800	1160	65	1180	66	2	51-103/19
193-39-5	Indeno(1,2,3-cd)pyrene	137	J	1800	1560	79	1630	83	4	48-132/23
78-59-1	Isophorone	ND		1800	1180	66	1230	69	4	61-104/17
91-57-6	2-Methylnaphthalene	51.1	J	1800	1290	69	1340	72	4	59-99/21
88-74-4	2-Nitroaniline	ND		1800	1460	81	1570	87	7	65-109/14
99-09-2	3-Nitroaniline	ND		1800	1200	67	1270	71	6	44-98/21
100-01-6	4-Nitroaniline	ND		1800	1260	70	1400	78	11	54-109/19
91-20-3	Naphthalene	ND		1800	1270	71	1280	71	1	59-100/21
98-95-3	Nitrobenzene	ND		1800	1230	69	1290	72	5	59-102/18
621-64-7	N-Nitroso-di-n-propylamine	ND		1800	1120	62	1140	63	2	55-106/19
86-30-6	N-Nitrosodiphenylamine	ND		1800	1450	81	1510	84	4	69-116/16
85-01-8	Phenanthrene	285		1800	1710	79	1760	82	3	65-105/24
129-00-0	Pyrene	743		1800	2030	72	2040	72	0	62-107/26
120-82-1	1,2,4-Trichlorobenzene	ND		1800	1250	70	1270	71	2	58-101/17

CAS No.	Surrogate Recoveries	MS	MSD	F24341-3	Limits
367-12-4	2-Fluorophenol	68%	68%	74%	45-114%
4165-62-2	Phenol-d5	68%	68%	76%	44-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10516-MS	L021666.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
OP10516-MSD	L021667.D	1	05/27/04	ME	05/25/04	OP10516	SL1165
F24341-3	L021665.D	1	05/27/04	ME	05/25/04	OP10516	SL1165

The QC reported here applies to the following samples: Method: SW846 8270C

F24344-4

CAS No.	Surrogate Recoveries	MS	MSD	F24341-3	Limits
118-79-6	2,4,6-Tribromophenol	75%	78%	82%	50-128%
4165-60-0	Nitrobenzene-d5	67%	69%	72%	41-123%
321-60-8	2-Fluorobiphenyl	70%	70%	74%	46-122%
1718-51-0	Terphenyl-d14	75%	74%	83%	45-135%

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: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV810-MB	UV013493.D	1	06/04/04	NJ	n/a	n/a	GUV810

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	101%	70-130%
460-00-4	BFB	101%	70-130%

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV811-MB	UV013516.D	1	06/05/04	NJ	n/a	n/a	GUV811

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	105%	70-130%
460-00-4	BFB	103%	70-130%

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV812-MB	UV013531.D	1	06/07/04	NJ	n/a	n/a	GUV812

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-2, F24344-3, F24344-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	108%	70-130%
460-00-4	BFB	107%	70-130%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV810-BS	UV013492.D	1	06/04/04	NJ	n/a	n/a	GUV810

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	3460	87	70-130
100-41-4	Ethylbenzene	4000	3510	88	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	3620	91	70-130
91-20-3	Naphthalene	4000	3610	90	70-130
108-88-3	Toluene	4000	3660	92	70-130
	m,p-Xylene	8000	7470	93	70-130
95-47-6	o-Xylene	4000	3630	91	70-130
	C5- C8 Aliphatics (Unadj.)	24000	22100	92	70-130
	C9- C12 Aliphatics (Unadj.)	24000	21100	88	70-130
	C9- C10 Aromatics (Unadj.)	4000	3680	92	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	110%	70-130%
460-00-4	BFB	107%	70-130%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV811-BS	UV013515.D	1	06/05/04	NJ	n/a	n/a	GUV811

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	3880	97	70-130
100-41-4	Ethylbenzene	4000	3760	94	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	3830	96	70-130
91-20-3	Naphthalene	4000	3080	77	70-130
108-88-3	Toluene	4000	4040	101	70-130
	m,p-Xylene	8000	8020	100	70-130
95-47-6	o-Xylene	4000	3900	98	70-130
	C5- C8 Aliphatics (Unadj.)	24000	24800	103	70-130
	C9- C12 Aliphatics (Unadj.)	24000	22500	94	70-130
	C9- C10 Aromatics (Unadj.)	4000	3810	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	112%	70-130%
460-00-4	BFB	108%	70-130%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV812-BS	UV013530.D	1	06/07/04	NJ	n/a	n/a	GUV812

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-2, F24344-3, F24344-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	4030	101	70-130
100-41-4	Ethylbenzene	4000	3900	98	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	4010	100	70-130
91-20-3	Naphthalene	4000	3430	86	70-130
108-88-3	Toluene	4000	4200	105	70-130
	m,p-Xylene	8000	8310	104	70-130
95-47-6	o-Xylene	4000	4000	100	70-130
	C5- C8 Aliphatics (Unadj.)	24000	25600	107	70-130
	C9- C12 Aliphatics (Unadj.)	24000	23500	98	70-130
	C9- C10 Aromatics (Unadj.)	4000	4120	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	116%	70-130%
460-00-4	BFB	112%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24344-1MS	UV013507.D	1	06/04/04	NJ	n/a	n/a	GUV810
F24344-1MSD	UV013508.D	1	06/05/04	NJ	n/a	n/a	GUV810
F24344-1	UV013506.D	1	06/04/04	NJ	n/a	n/a	GUV810

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-1

CAS No.	Compound	F24344-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		4990	4120	83	4520	91	9	70-130/50
100-41-4	Ethylbenzene	ND		4990	3980	80	4410	88	10	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		4990	4460	89	4830	97	8	70-130/50
91-20-3	Naphthalene	ND		4990	3640	73	4070	82	11	70-130/50
108-88-3	Toluene	ND		4990	4280	86	4720	95	10	70-130/50
	m,p-Xylene	ND		9990	8290	83	9180	92	10	70-130/50
95-47-6	o-Xylene	ND		4990	4100	82	4490	90	9	70-130/50
	C5- C8 Aliphatics (Unadj.)	ND		30000	25300	84	28500	95	12	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		30000	24000	80	26700	89	11	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		4990	4050	81	4170	84	3	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24344-1	Limits
460-00-4	BFB	97%	95%	93%	70-130%
460-00-4	BFB	95%	93%	93%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24344-5MS	UV013526.D	1	06/05/04	NJ	n/a	n/a	GUV811
F24344-5MSD	UV013527.D	1	06/05/04	NJ	n/a	n/a	GUV811
F24344-5 [a]	UV013524.D	1	06/05/04	NJ	n/a	n/a	GUV811

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-4

CAS No.	Compound	F24344-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		4420	3670	83	3910	89	6	70-130/50
100-41-4	Ethylbenzene	ND		4420	3800	86	3930	89	3	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		4420	4160	94	4340	98	4	70-130/50
91-20-3	Naphthalene	4460		4420	9450	113	9390	112	1	70-130/50
108-88-3	Toluene	ND		4420	3890	88	4070	92	5	70-130/50
	m,p-Xylene	ND		8840	7840	89	8120	92	4	70-130/50
95-47-6	o-Xylene	ND		4420	4050	92	4170	94	3	70-130/50
	C5- C8 Aliphatics (Unadj.)	7550		26500	32500	94	33800	99	4	70-130/50
	C9- C12 Aliphatics (Unadj.)	84300		26500	108000	89	111000	101	3	70-130/50
	C9- C10 Aromatics (Unadj.)	56900	E	4420	62100	118	63100	140* [b]	2	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24344-5	Limits
460-00-4	BFB	98%	97%	95%	70-130%
460-00-4	BFB	109%	105%	107%	70-130%

(a) Confirmation run.
(b) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24417-1MS	UV013533.D	1	06/07/04	NJ	n/a	n/a	GUV812
F24417-1MSD	UV013534.D	1	06/07/04	NJ	n/a	n/a	GUV812
F24417-1	UV013532.D	1	06/07/04	NJ	n/a	n/a	GUV812

The QC reported here applies to the following samples: Method: MADEP VPH

F24344-2, F24344-3, F24344-5

CAS No.	Compound	F24417-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20700	18700	91	19200	93	3	70-130/50
100-41-4	Ethylbenzene	ND		20700	18000	87	19100	92	6	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		20700	19900	96	20800	101	4	70-130/50
91-20-3	Naphthalene	1730	J	20700	22200	99	23900	107	7	70-130/50
108-88-3	Toluene	ND		20700	19200	93	20000	97	4	70-130/50
	m,p-Xylene	ND		41300	37700	91	40100	97	6	70-130/50
95-47-6	o-Xylene	ND		20700	18500	90	19500	94	5	70-130/50
	C5- C8 Aliphatics (Unadj.)	ND		124000	124000	100	127000	102	2	70-130/50
	C9- C12 Aliphatics (Unadj.)	136000		124000	235000	80	238000	82	1	70-130/50
	C9- C10 Aromatics (Unadj.)	87900		20700	95700	38* [a]	95500	37* [a]	0	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24417-1	Limits
460-00-4	BFB	96%	89%	92%	70-130%
460-00-4	BFB	89%	82%	84%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MB	ZF13545.D	1	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24344-1, F24344-2, F24344-3, F24344-4, F24344-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	62%	40-140%
580-13-2	2-Bromonaphthalene	90%	40-140%
84-15-1	o-Terphenyl	84%	40-140%
321-60-8	2-Fluorobiphenyl	86%	40-140%

Method Blank Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MB	ZF13575.D	1	06/03/04	ME	05/27/04	OP10532	GZF631

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24344-1, F24344-2, F24344-3, F24344-4, F24344-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	65%	40-140%
580-13-2	2-Bromonaphthalene	94%	40-140%
84-15-1	o-Terphenyl	89%	40-140%
321-60-8	2-Fluorobiphenyl	91%	40-140%

Blank Spike Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-BS	ZF13544.D	1	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24344-1, F24344-2, F24344-3, F24344-4, F24344-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1420	85	40-140
208-96-8	Acenaphthylene	1670	1400	84	40-140
120-12-7	Anthracene	1670	1620	97	40-140
56-55-3	Benzo(a)anthracene	1670	1580	95	40-140
50-32-8	Benzo(a)pyrene	1670	1580	95	40-140
205-99-2	Benzo(b)fluoranthene	1670	1580	95	40-140
191-24-2	Benzo(g,h,i)perylene	1670	1560	94	40-140
207-08-9	Benzo(k)fluoranthene	1670	1580	95	40-140
218-01-9	Chrysene	1670	1620	97	40-140
53-70-3	Dibenzo(a,h)anthracene	1670	1580	95	40-140
206-44-0	Fluoranthene	1670	1590	95	40-140
86-73-7	Fluorene	1670	1500	90	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1550	93	40-140
91-57-6	2-Methylnaphthalene	1670	1360	82	40-140
91-20-3	Naphthalene	1670	1250	75	40-140
85-01-8	Phenanthrene	1670	1570	94	40-140
129-00-0	Pyrene	1670	1990	119	40-140
	C11-C22 Aromatics (Unadj.)	28300	25700	91	40-140
	C9-C18 Aliphatics	10000	10400	104	40-140
	C19-C36 Aliphatics	13300	12100	91	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	57%	40-140%
580-13-2	2-Bromonaphthalene	90%	40-140%
84-15-1	o-Terphenyl	85%	40-140%
321-60-8	2-Fluorobiphenyl	89%	40-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MS	ZF13547.D	40	06/02/04	ME	05/27/04	OP10532	GZF630
OP10532-MSD	ZF13548.D	40	06/02/04	ME	05/27/04	OP10532	GZF630
F24298-1	ZF13569.D	40	06/03/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24344-1, F24344-2, F24344-3, F24344-4, F24344-5

CAS No.	Compound	F24298-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
208-96-8	Acenaphthylene	ND		2050	ND	0*	ND	0*	nc	40-140/50
120-12-7	Anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
56-55-3	Benzo(a)anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
50-32-8	Benzo(a)pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
205-99-2	Benzo(b)fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
191-24-2	Benzo(g,h,i)perylene	ND		2050	ND	0*	ND	0*	nc	40-140/50
207-08-9	Benzo(k)fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
218-01-9	Chrysene	ND		2050	ND	0*	ND	0*	nc	40-140/50
53-70-3	Dibenzo(a,h)anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
206-44-0	Fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
86-73-7	Fluorene	7550	J	2050	9560	98	7740	9* [a]	21	40-140/50
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
91-57-6	2-Methylnaphthalene	27800		2050	28500	34* [a]	21900	-288* [a]	26	40-140/50
91-20-3	Naphthalene	ND		2050	ND	0*	ND	0*	nc	40-140/50
85-01-8	Phenanthrene	ND		2050	7660	374*	ND	0*	200*	40-140/50
129-00-0	Pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
	C11-C22 Aromatics (Unadj.)	1380000		34800	1580000	575* [a]	1120000	-747* [a]	34	40-140/50
	C9-C18 Aliphatics	2850000		12300	2500000	-2849* [a]	2260000	-4803* [a]	10	40-140/50
	C11-C22 Aromatics	1330000		34800	1530000	575* [a]	1080000	-718* [a]	34*	50-150/30 [b]
	C19-C36 Aliphatics	405000		16400	359000	-281* [a]	ND	-2473* [a]	200*	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F24298-1	Limits
3386-33-2	1-Chlorooctadecane	0%* [c]	0%* [c]	0%* [c]	40-140%
580-13-2	2-Bromonaphthalene	0%* [c]	0%* [c]	0%* [c]	40-140%
84-15-1	o-Terphenyl	0%* [c]	0%* [c]	0%* [c]	40-140%
321-60-8	2-Fluorobiphenyl	0%* [c]	0%* [c]	0%* [c]	40-140%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Advisory control limits.
(c) Outside control limits due to dilution.

Duplicate Summary

Job Number: F24344
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2471

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-DUP	ZF13581.D	10	06/03/04	ME	05/27/04	OP10532	GZF631
F24344-5	ZF13558.D	20	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24344-1, F24344-2, F24344-3, F24344-4, F24344-5

CAS No.	Compound	F24344-5 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	4350	J	1610	J	92*	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	18100		6070		100*	
91-20-3	Naphthalene	3410	J	ND		200*	
85-01-8	Phenanthrene	4020	J	ND		200*	
129-00-0	Pyrene	ND		ND		nc	
	C11-C22 Aromatics (Unadj.)	1070000		347000		102*	
	C9-C18 Aliphatics	1550000		457000		109*	
	C11-C22 Aromatics	1040000		337000		102*	
	C19-C36 Aliphatics	340000		108000		104*	

CAS No.	Surrogate Recoveries	DUP	F24344-5	Limits
3386-33-2	1-Chlorooctadecane	61%	0%* [a]	40-140%
580-13-2	2-Bromonaphthalene	108%	0%* [a]	40-140%
84-15-1	o-Terphenyl	136%	0%* [a]	40-140%
321-60-8	2-Fluorobiphenyl	99%	0%* [a]	40-140%

(a) Outside control limits due to dilution.

Southeast
ACCUTEST
Laboratories

06/11/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2469

102463

Accutest Job Number: F24384

Sampling Date: 05/25/04

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 75

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24384

Camp Lejeune-TT2469
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F24384-1	05/25/04	13:30	MM	05/26/04	SO	Soil	2469-F2469-001
F24384-2	05/25/04	13:40	MM	05/26/04	SO	Soil	2467-F2467-002
F24384-3	05/25/04	13:50	MM	05/26/04	SO	Soil	2469-NW-003
F24384-4	05/25/04	14:00	MM	05/26/04	SO	Soil	2469-EW-004
F24384-5	05/25/04	14:10	MM	05/26/04	SO	Soil	2469-WW-005
F24384-6	05/25/04	14:20	MM	05/26/04	SO	Soil	2469-SW-006
F24384-7	05/25/04	00:00	MM	05/26/04	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2469-F2469-001		
Lab Sample ID:	F24384-1	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	85.7
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013542.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.29 g	5.0 ml	1.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	28000	11000	ug/kg	
100-41-4	Ethylbenzene	ND	28000	14000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	83000	28000	ug/kg	
91-20-3	Naphthalene	ND	55000	30000	ug/kg	
108-88-3	Toluene	ND	83000	28000	ug/kg	
	m,p-Xylene	ND	110000	41000	ug/kg	
95-47-6	o-Xylene	ND	55000	28000	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	410000	220000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	545000	300000	170000	ug/kg	
	C9- C10 Aromatics (Unadj.)	206000	110000	55000	ug/kg	
	C5- C8 Aliphatics	ND	410000	220000	ug/kg	
	C9- C12 Aliphatics	330000	300000	170000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	0% [a]		70-130%
460-00-4	BFB	0% [a]		70-130%

(a) Outside control limits due to dilution.

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:	2469-F2469-001		
Lab Sample ID:	F24384-1	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	85.7
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13576.D	50	06/03/04	ME	05/27/04	OP10532	GZF631
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	19000	7600	ug/kg	
208-96-8	Acenaphthylene	ND	19000	7600	ug/kg	
120-12-7	Anthracene	ND	19000	7600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	19000	7600	ug/kg	
50-32-8	Benzo(a)pyrene	ND	19000	7600	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	19000	7600	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	19000	7600	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	19000	7600	ug/kg	
218-01-9	Chrysene	ND	19000	7600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	19000	7600	ug/kg	
206-44-0	Fluoranthene	ND	19000	7600	ug/kg	
86-73-7	Fluorene	9740	19000	7600	ug/kg	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	19000	7600	ug/kg	
91-57-6	2-Methylnaphthalene	14400	19000	7600	ug/kg	J
91-20-3	Naphthalene	ND	19000	7600	ug/kg	
85-01-8	Phenanthrene	ND	19000	7600	ug/kg	
129-00-0	Pyrene	ND	19000	7600	ug/kg	
	C11-C22 Aromatics (Unadj.)	1910000	380000	380000	ug/kg	
	C9-C18 Aliphatics	3570000	380000	380000	ug/kg	
	C11-C22 Aromatics	1880000	380000	380000	ug/kg	
	C19-C36 Aliphatics	657000	380000	380000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	SW846 8260B SW846 5035	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H025655.D	1	05/27/04	NAF	05/26/04 11:15	n/a	VH957
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.88 g	5.0 ml	50.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5500	2800	ug/kg	
71-43-2	Benzene	ND	550	220	ug/kg	
75-27-4	Bromodichloromethane	ND	550	220	ug/kg	
75-25-2	Bromoform	ND	550	220	ug/kg	
108-90-7	Chlorobenzene	ND	550	220	ug/kg	
75-00-3	Chloroethane	ND	550	220	ug/kg	
67-66-3	Chloroform	ND	550	220	ug/kg	
75-15-0	Carbon disulfide	ND	550	220	ug/kg	
56-23-5	Carbon tetrachloride	ND	550	220	ug/kg	
75-34-3	1,1-Dichloroethane	ND	550	220	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	550	330	ug/kg	
107-06-2	1,2-Dichloroethane	ND	550	220	ug/kg	
78-87-5	1,2-Dichloropropane	ND	550	220	ug/kg	
124-48-1	Dibromochloromethane	ND	550	220	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	550	220	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	550	220	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	550	220	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	550	220	ug/kg	
100-41-4	Ethylbenzene	ND	550	220	ug/kg	
591-78-6	2-Hexanone	ND	2800	1100	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	2800	1100	ug/kg	
74-83-9	Methyl bromide	ND	550	220	ug/kg	
74-87-3	Methyl chloride	ND	550	220	ug/kg	
75-09-2	Methylene chloride	636	1100	550	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	2800	1100	ug/kg	
100-42-5	Styrene	ND	550	220	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	550	220	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	550	220	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	550	220	ug/kg	
127-18-4	Tetrachloroethylene	ND	550	220	ug/kg	
108-88-3	Toluene	ND	550	220	ug/kg	
79-01-6	Trichloroethylene	ND	550	220	ug/kg	

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	SW846 8260B SW846 5035	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	550	280	ug/kg	
1330-20-7	Xylene (total)	ND	1700	500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		78-123%
2037-26-5	Toluene-D8	92%		71-137%
460-00-4	4-Bromofluorobenzene	115%		61-157%
17060-07-0	1,2-Dichloroethane-D4	98%		74-125%

(a) Methanol extract analysis required due to matrix interference (non-target analytes present above calibration range).

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L021836.D	10	06/08/04	ME	06/04/04	OP10599	SL1172
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	8900	5400	ug/kg	
95-57-8	2-Chlorophenol	ND	1800	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1800	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1800	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1800	360	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	8900	3600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3600	710	ug/kg	
95-48-7	2-Methylphenol	ND	1800	360	ug/kg	
	3&4-Methylphenol	ND	1800	360	ug/kg	
88-75-5	2-Nitrophenol	ND	1800	360	ug/kg	
100-02-7	4-Nitrophenol	ND	8900	3600	ug/kg	
87-86-5	Pentachlorophenol	ND	8900	3600	ug/kg	
108-95-2	Phenol	ND	1800	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1800	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1800	360	ug/kg	
83-32-9	Acenaphthene	464	1800	360	ug/kg	J
208-96-8	Acenaphthylene	ND	1800	360	ug/kg	
120-12-7	Anthracene	ND	1800	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1800	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1800	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1800	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1800	710	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1800	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1800	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	3600	890	ug/kg	
100-51-6	Benzyl Alcohol	ND	1800	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1800	360	ug/kg	
106-47-8	4-Chloroaniline	ND	7100	2700	ug/kg	
86-74-8	Carbazole	ND	1800	360	ug/kg	
218-01-9	Chrysene	ND	1800	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1800	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1800	710	ug/kg	

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	1800	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1800	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1800	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1800	360	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1800	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1800	710	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1800	710	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3600	1800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1800	710	ug/kg	
132-64-9	Dibenzofuran	362	1800	360	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	3600	890	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	3600	1800	ug/kg	
84-66-2	Diethyl phthalate	ND	3600	890	ug/kg	
131-11-3	Dimethyl phthalate	ND	3600	890	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	3600	1800	ug/kg	
206-44-0	Fluoranthene	ND	1800	360	ug/kg	
86-73-7	Fluorene	459	1800	360	ug/kg	J
118-74-1	Hexachlorobenzene	ND	1800	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1800	710	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1800	710	ug/kg	
67-72-1	Hexachloroethane	ND	1800	710	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1800	710	ug/kg	
78-59-1	Isophorone	ND	1800	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1800	360	ug/kg	
88-74-4	2-Nitroaniline	ND	3600	890	ug/kg	
99-09-2	3-Nitroaniline	ND	3600	890	ug/kg	
100-01-6	4-Nitroaniline	ND	3600	890	ug/kg	
91-20-3	Naphthalene	ND	1800	360	ug/kg	
98-95-3	Nitrobenzene	ND	1800	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1800	710	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1800	360	ug/kg	
85-01-8	Phenanthrene	397	1800	360	ug/kg	J
129-00-0	Pyrene	2450	1800	710	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1800	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		45-114%
4165-62-2	Phenol-d5	89%		44-124%
118-79-6	2,4,6-Tribromophenol	87%		50-128%

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		41-123%
321-60-8	2-Fluorobiphenyl	88%		46-122%
1718-51-0	Terphenyl-d14	92%		45-135%

(a) Dilution required 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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013565.D	1	06/08/04	NJ	n/a	n/a	GUV814
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.88 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2800	1100	ug/kg	
100-41-4	Ethylbenzene	ND	2800	1400	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	8300	2800	ug/kg	
91-20-3	Naphthalene	3200	5500	3000	ug/kg	J
108-88-3	Toluene	ND	8300	2800	ug/kg	
	m,p-Xylene	ND	11000	4200	ug/kg	
95-47-6	o-Xylene	ND	5500	2800	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	42000	22000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	173000	30000	17000	ug/kg	
	C9- C10 Aromatics (Unadj.)	110000	11000	5500	ug/kg	
	C5- C8 Aliphatics	ND	42000	22000	ug/kg	
	C9- C12 Aliphatics	61800	30000	17000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	101%		70-130%
460-00-4	BFB	85%		70-130%

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:	2467-F2467-002		
Lab Sample ID:	F24384-2	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	92.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13577.D	50	06/03/04	ME	05/27/04	OP10532	GZF631
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	18000	7000	ug/kg	
208-96-8	Acenaphthylene	ND	18000	7000	ug/kg	
120-12-7	Anthracene	ND	18000	7000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	18000	7000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	18000	7000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	18000	7000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	18000	7000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	18000	7000	ug/kg	
218-01-9	Chrysene	ND	18000	7000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	18000	7000	ug/kg	
206-44-0	Fluoranthene	ND	18000	7000	ug/kg	
86-73-7	Fluorene	ND	18000	7000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	18000	7000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	18000	7000	ug/kg	
91-20-3	Naphthalene	ND	18000	7000	ug/kg	
85-01-8	Phenanthrene	ND	18000	7000	ug/kg	
129-00-0	Pyrene	ND	18000	7000	ug/kg	
	C11-C22 Aromatics (Unadj.)	1290000	350000	350000	ug/kg	
	C9-C18 Aliphatics	3040000	350000	350000	ug/kg	
	C11-C22 Aromatics	1290000	350000	350000	ug/kg	
	C19-C36 Aliphatics	684000	350000	350000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2469-NW-003		
Lab Sample ID:	F24384-3	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	75.9
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013568.D	1	06/08/04	NJ	n/a	n/a	GUV814
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.30 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	310	120	ug/kg	
100-41-4	Ethylbenzene	ND	310	160	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	930	310	ug/kg	
91-20-3	Naphthalene	ND	620	340	ug/kg	
108-88-3	Toluene	ND	930	310	ug/kg	
	m,p-Xylene	ND	1200	470	ug/kg	
95-47-6	o-Xylene	ND	620	310	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics (Unadj.)	16500	3400	1900	ug/kg	
	C9- C10 Aromatics (Unadj.)	10300	1200	620	ug/kg	
	C5- C8 Aliphatics	ND	4700	2500	ug/kg	
	C9- C12 Aliphatics	6090	3400	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	89%		70-130%
460-00-4	BFB	95%		70-130%

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:	2469-NW-003		
Lab Sample ID:	F24384-3	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	75.9
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13704.D	5	06/10/04	SM	06/01/04	OP10562	GZF637
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	2200	860	ug/kg	
208-96-8	Acenaphthylene	ND	2200	860	ug/kg	
120-12-7	Anthracene	ND	2200	860	ug/kg	
56-55-3	Benzo(a)anthracene	ND	2200	860	ug/kg	
50-32-8	Benzo(a)pyrene	ND	2200	860	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	2200	860	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	2200	860	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	2200	860	ug/kg	
218-01-9	Chrysene	ND	2200	860	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	2200	860	ug/kg	
206-44-0	Fluoranthene	ND	2200	860	ug/kg	
86-73-7	Fluorene	ND	2200	860	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2200	860	ug/kg	
91-57-6	2-Methylnaphthalene	ND	2200	860	ug/kg	
91-20-3	Naphthalene	ND	2200	860	ug/kg	
85-01-8	Phenanthrene	ND	2200	860	ug/kg	
129-00-0	Pyrene	ND	2200	860	ug/kg	
	C11-C22 Aromatics (Unadj.)	98900	43000	43000	ug/kg	
	C9-C18 Aliphatics	167000	43000	43000	ug/kg	
	C11-C22 Aromatics	98900	43000	43000	ug/kg	
	C19-C36 Aliphatics	59700	43000	43000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	57%		40-140%
580-13-2	2-Bromonaphthalene	109%		40-140%
84-15-1	o-Terphenyl	95%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

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:	2469-EW-004		
Lab Sample ID:	F24384-4	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	78.3
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013545.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.20 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	260	100	ug/kg	
100-41-4	Ethylbenzene	ND	260	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	770	260	ug/kg	
91-20-3	Naphthalene	ND	510	280	ug/kg	
108-88-3	Toluene	ND	770	260	ug/kg	
	m,p-Xylene	ND	1000	390	ug/kg	
95-47-6	o-Xylene	ND	510	260	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3900	2100	ug/kg	
	C9- C12 Aliphatics (Unadj.)	8280	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	4600	1000	510	ug/kg	
	C5- C8 Aliphatics	ND	3900	2100	ug/kg	
	C9- C12 Aliphatics	3670	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	92%		70-130%

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:	2469-EW-004		
Lab Sample ID:	F24384-4	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.3
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13705.D	40	06/10/04	SM	06/01/04	OP10562	GZF637
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	17000	6700	ug/kg	
208-96-8	Acenaphthylene	ND	17000	6700	ug/kg	
120-12-7	Anthracene	ND	17000	6700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	17000	6700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	17000	6700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	17000	6700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	17000	6700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	17000	6700	ug/kg	
218-01-9	Chrysene	ND	17000	6700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	17000	6700	ug/kg	
206-44-0	Fluoranthene	ND	17000	6700	ug/kg	
86-73-7	Fluorene	ND	17000	6700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	17000	6700	ug/kg	
91-57-6	2-Methylnaphthalene	ND	17000	6700	ug/kg	
91-20-3	Naphthalene	ND	17000	6700	ug/kg	
85-01-8	Phenanthrene	ND	17000	6700	ug/kg	
129-00-0	Pyrene	ND	17000	6700	ug/kg	
	C11-C22 Aromatics (Unadj.)	747000	340000	340000	ug/kg	
	C9-C18 Aliphatics	1700000	340000	340000	ug/kg	
	C11-C22 Aromatics	747000	340000	340000	ug/kg	
	C19-C36 Aliphatics	497000	340000	340000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	2469-WW-005		
Lab Sample ID:	F24384-5	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	77.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013569.D	1	06/08/04	NJ	n/a	n/a	GUV814
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.35 g	5.0 ml	50.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	600	240	ug/kg	
100-41-4	Ethylbenzene	ND	600	300	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1800	600	ug/kg	
91-20-3	Naphthalene	ND	1200	660	ug/kg	
108-88-3	Toluene	ND	1800	600	ug/kg	
	m,p-Xylene	ND	2400	910	ug/kg	
95-47-6	o-Xylene	ND	1200	600	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	9100	4800	ug/kg	
	C9- C12 Aliphatics (Unadj.)	50100	6600	3600	ug/kg	
	C9- C10 Aromatics (Unadj.)	31100	2400	1200	ug/kg	
	C5- C8 Aliphatics	ND	9100	4800	ug/kg	
	C9- C12 Aliphatics	18800	6600	3600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	92%		70-130%

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:	2469-WW-005		
Lab Sample ID:	F24384-5	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	77.4
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13681.D	10	06/09/04	SM	06/01/04	OP10562	GZF636
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4200	1700	ug/kg	
208-96-8	Acenaphthylene	ND	4200	1700	ug/kg	
120-12-7	Anthracene	ND	4200	1700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4200	1700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4200	1700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4200	1700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4200	1700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4200	1700	ug/kg	
218-01-9	Chrysene	ND	4200	1700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4200	1700	ug/kg	
206-44-0	Fluoranthene	ND	4200	1700	ug/kg	
86-73-7	Fluorene	ND	4200	1700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4200	1700	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4200	1700	ug/kg	
91-20-3	Naphthalene	ND	4200	1700	ug/kg	
85-01-8	Phenanthrene	ND	4200	1700	ug/kg	
129-00-0	Pyrene	ND	4200	1700	ug/kg	
	C11-C22 Aromatics (Unadj.)	273000	84000	84000	ug/kg	
	C9-C18 Aliphatics	605000	84000	84000	ug/kg	
	C11-C22 Aromatics	272000	84000	84000	ug/kg	
	C19-C36 Aliphatics	141000	84000	84000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	62%		40-140%
580-13-2	2-Bromonaphthalene	99%		40-140%
84-15-1	o-Terphenyl	111%		40-140%
321-60-8	2-Fluorobiphenyl	83%		40-140%

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:	2469-SW-006		
Lab Sample ID:	F24384-6	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	76.2
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013570.D	1	06/08/04	NJ	n/a	n/a	GUV814
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.77 g	5.0 ml	10.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	3400	1400	ug/kg	
100-41-4	Ethylbenzene	ND	3400	1700	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	10000	3400	ug/kg	
91-20-3	Naphthalene	5380	6900	3800	ug/kg	J
108-88-3	Toluene	ND	10000	3400	ug/kg	
	m,p-Xylene	ND	14000	5200	ug/kg	
95-47-6	o-Xylene	ND	6900	3400	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	52000	28000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	268000	38000	21000	ug/kg	
	C9- C10 Aromatics (Unadj.)	166000	14000	6900	ug/kg	
	C5- C8 Aliphatics	ND	52000	28000	ug/kg	
	C9- C12 Aliphatics	102000	38000	21000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	80%		70-130%
460-00-4	BFB	73%		70-130%

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:	2469-SW-006		
Lab Sample ID:	F24384-6	Date Sampled:	05/25/04
Matrix:	SO - Soil	Date Received:	05/26/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	76.2
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13706.D	80	06/10/04	SM	06/01/04	OP10562	GZF637
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	34000	14000	ug/kg	
208-96-8	Acenaphthylene	ND	34000	14000	ug/kg	
120-12-7	Anthracene	ND	34000	14000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	34000	14000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	34000	14000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	34000	14000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	34000	14000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	34000	14000	ug/kg	
218-01-9	Chrysene	ND	34000	14000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34000	14000	ug/kg	
206-44-0	Fluoranthene	ND	34000	14000	ug/kg	
86-73-7	Fluorene	ND	34000	14000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	34000	14000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	34000	14000	ug/kg	
91-20-3	Naphthalene	ND	34000	14000	ug/kg	
85-01-8	Phenanthrene	ND	34000	14000	ug/kg	
129-00-0	Pyrene	ND	34000	14000	ug/kg	
	C11-C22 Aromatics (Unadj.)	2980000	690000	690000	ug/kg	
	C9-C18 Aliphatics	6870000	690000	690000	ug/kg	
	C11-C22 Aromatics	2980000	690000	690000	ug/kg	
	C19-C36 Aliphatics	1390000	690000	690000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% [a]		40-140%
580-13-2	2-Bromonaphthalene	0% [a]		40-140%
84-15-1	o-Terphenyl	0% [a]		40-140%
321-60-8	2-Fluorobiphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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:	TRIP BLANK		
Lab Sample ID:	F24384-7	Date Sampled:	05/25/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/26/04
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J008242.D	1	06/04/04	RA	n/a	n/a	VJ352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.50	ug/l	
75-25-2	Bromoform	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.50	ug/l	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F24384-7	Date Sampled:	05/25/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/26/04
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT2469		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		86-115%
17060-07-0	1,2-Dichloroethane-D4	102%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	98%		83-119%

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:	TRIP BLANK		
Lab Sample ID:	F24384-7	Date Sampled:	05/25/04
Matrix:	AQ - Trip Blank Soil	Date Received:	05/26/04
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-TT2469		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013423.D	1	06/02/04	NJ	n/a	n/a	GUV805
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	15	5.0	ug/l	
91-20-3	Naphthalene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	15	5.0	ug/l	
	m,p-Xylene	ND	20	7.5	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	75	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	20	10	ug/l	
	C5- C8 Aliphatics	ND	75	50	ug/l	
	C9- C12 Aliphatics	ND	55	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	106%		70-130%
460-00-4	BFB	102%		70-130%

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:
102463-TT2469-052504

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F24384

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

Receiving LAB:ACCUTEST

Project Name	Project Location		
CAMP LEJEUNE - TT2469	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
102463	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	MEDEP EPH	MEDEP VPH	8260	8270	Field FID Readings
1	2469-F2469-001	5/25/04	13:30		X	Excav 2469 Floor	7	X	X			592.4
2	2467-F2467-002	5/25/04	13:40		X	Excav 2469 North Wall	4	X	X	X	X	2977
3	2469-NW-003	5/25/04	13:50		X	Excav 2469 North Wall	4	X	X			8.9
4	2469-EW-004	5/25/04	14:00		X	Excav 2469 East Wall	4	X	X			15.6
5	2469-WW-005	5/25/04	14:10		X	Excav 2469 West Wall	4	X	X			160.1
6	2469-SW-006	5/25/04	14:20		X	Excav 2469 South Wall	4	X	X			1152
7	Trip Blank	5/25/04	→		X	TRIP BLANK	2		X			
8												
9												
10												
11												

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-7	[signature]	FedEx	5/25/04	16:00	14 DAY TAT
2		FedEx	Nuna Mohamad	5/26/04	0900	
3						

3.8 °C

F24384: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24384

Client: Shaw Project: Camp Lejeune-TT2469

Date Received: 5/26/04 Time Received: 0900

# of Coolers Received: 1 Cooler Temperatures: 3.8

Delivery Method: (FedEx) UPS Accutest Courier Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact ?	(Yes)	No	
Chain of Custody Provided ?	(Yes)	No	
COC Match Bottle Label ID's ?	Yes	(No)	
Sample Labels Present on all bottles ?	(Yes)	No	
All Analyses Marked On COC ?	(Yes)	No	
Are All Bottles Intact ?	(Yes)	No	
Samples Preserved Correctly ?	(Yes)	No	
Correct Number of Containers Used ?	(Yes)	No	
Sufficient Sample Volume ?	(Yes)	No	
Trip Blank Provided ?	(Yes)	No	
Trip Blank on COC ?	(Yes)	No	
Trip Blank Intact ?	(Yes)	No	N/A
Trip Blank Matrix ?	Soil	(Water)	N/A
Number of Encores ?	18		
Number of Soil Field Kits ?	0		

Summary of Comments: For sample #2 we did not receive jar labeled with ID, but sample #3 has two jars labeled 2469-NW-CC and one of the jars has 2467 written on top of it. concluded that this jar belonged to sample #2

Signature: Mina Mohammed Date: 5/26/04

Review Signature:

ASBD 12/30/03

F24384: Chain of Custody
Page 2 of 2

GC/MS 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: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH957-MB	H025634.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	3.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.5	ug/kg	

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH957-MB	H025634.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	88%	78-123%
2037-26-5	Toluene-D8	97%	71-137%
460-00-4	4-Bromofluorobenzene	110%	61-157%
17060-07-0	1,2-Dichloroethane-D4	88%	74-125%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ352-MB	J008228.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.50	ug/l	
75-25-2	Bromoform	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	10	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.0	ug/l	

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ352-MB	J008228.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	86-115%
17060-07-0	1,2-Dichloroethane-D4	100%	73-126%
2037-26-5	Toluene-D8	96%	86-112%
460-00-4	4-Bromofluorobenzene	98%	83-119%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH957-BS	H025633.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	164	66	51-136
71-43-2	Benzene	50	51.3	103	74-124
75-27-4	Bromodichloromethane	50	46.8	94	74-124
75-25-2	Bromoform	50	44.4	89	79-127
108-90-7	Chlorobenzene	50	45.6	91	78-117
75-00-3	Chloroethane	50	47.7	95	63-147
67-66-3	Chloroform	50	46.2	92	75-121
75-15-0	Carbon disulfide	50	40.6	81	59-148
56-23-5	Carbon tetrachloride	50	41.5	83	67-131
75-34-3	1,1-Dichloroethane	50	52.5	105	71-118
75-35-4	1,1-Dichloroethylene	50	42.3	85	64-126
107-06-2	1,2-Dichloroethane	50	46.1	92	72-120
78-87-5	1,2-Dichloropropane	50	58.0	116	74-126
124-48-1	Dibromochloromethane	50	43.9	88	78-120
156-59-2	cis-1,2-Dichloroethylene	50	50.0	100	75-124
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	72-120
156-60-5	trans-1,2-Dichloroethylene	50	49.3	99	70-122
10061-02-6	trans-1,3-Dichloropropene	50	46.8	94	75-118
100-41-4	Ethylbenzene	50	46.1	92	77-120
591-78-6	2-Hexanone	250	269	108	68-136
108-10-1	4-Methyl-2-pentanone	250	332	133	69-136
74-83-9	Methyl bromide	50	38.9	78	52-156
74-87-3	Methyl chloride	50	48.8	98	63-142
75-09-2	Methylene chloride	50	53.2	106	51-142
78-93-3	Methyl ethyl ketone	250	250	100	63-138
100-42-5	Styrene	50	47.4	95	74-120
71-55-6	1,1,1-Trichloroethane	50	43.0	86	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	51.1	102	76-121
79-00-5	1,1,2-Trichloroethane	50	47.4	95	77-118
127-18-4	Tetrachloroethylene	50	44.2	88	68-127
108-88-3	Toluene	50	47.1	94	74-118
79-01-6	Trichloroethylene	50	46.4	93	72-122
75-01-4	Vinyl chloride	50	44.3	89	64-144
1330-20-7	Xylene (total)	150	137	91	78-122

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH957-BS	H025633.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	78-123%
2037-26-5	Toluene-D8	94%	71-137%
460-00-4	4-Bromofluorobenzene	104%	61-157%
17060-07-0	1,2-Dichloroethane-D4	90%	74-125%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ352-BS	J008225.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	67.5	54	44-142
71-43-2	Benzene	25	24.0	96	80-120
75-27-4	Bromodichloromethane	25	22.8	91	75-120
75-25-2	Bromoform	25	22.6	90	60-129
108-90-7	Chlorobenzene	25	23.0	92	82-112
75-00-3	Chloroethane	25	27.9	112	67-148
67-66-3	Chloroform	25	24.8	99	78-118
75-15-0	Carbon disulfide	25	31.6	126	65-147
56-23-5	Carbon tetrachloride	25	24.9	100	69-137
75-34-3	1,1-Dichloroethane	25	24.5	98	75-117
75-35-4	1,1-Dichloroethylene	25	26.0	104	67-134
107-06-2	1,2-Dichloroethane	25	22.5	90	68-121
78-87-5	1,2-Dichloropropane	25	23.7	95	78-122
124-48-1	Dibromochloromethane	25	22.6	90	68-118
156-59-2	cis-1,2-Dichloroethylene	25	24.1	96	81-120
10061-01-5	cis-1,3-Dichloropropene	25	23.6	94	73-115
156-60-5	trans-1,2-Dichloroethylene	25	24.3	97	74-125
10061-02-6	trans-1,3-Dichloropropene	25	22.9	92	69-115
100-41-4	Ethylbenzene	25	23.1	92	82-115
591-78-6	2-Hexanone	125	92.9	74	60-125
108-10-1	4-Methyl-2-pentanone	125	110	88	61-128
74-83-9	Methyl bromide	25	24.0	96	60-165
74-87-3	Methyl chloride	25	28.6	114	58-152
75-09-2	Methylene chloride	25	25.1	100	66-125
78-93-3	Methyl ethyl ketone	125	85.2	68	58-127
100-42-5	Styrene	25	22.7	91	58-125
71-55-6	1,1,1-Trichloroethane	25	24.2	97	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	24.1	96	67-119
79-00-5	1,1,2-Trichloroethane	25	21.8	87	74-115
127-18-4	Tetrachloroethylene	25	23.6	94	75-126
108-88-3	Toluene	25	23.3	93	81-114
79-01-6	Trichloroethylene	25	23.5	94	80-115
75-01-4	Vinyl chloride	25	31.4	126	70-151
1330-20-7	Xylene (total)	75	71.7	96	81-118

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ352-BS	J008225.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	86-115%
17060-07-0	1,2-Dichloroethane-D4	99%	73-126%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	99%	83-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24341-1MS	H025641.D	1	05/27/04	NAF	n/a	n/a	VH957
F24341-1MSD	H025642.D	1	05/27/04	NAF	n/a	n/a	VH957
F24341-1	H025637.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Compound	F24341-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		286	139	49	128	46	8	14-140/33
71-43-2	Benzene	ND		57.3	64.6	113	59.0	106	9	63-135/23
75-27-4	Bromodichloromethane	ND		57.3	55.3	97	50.2	90	10	63-126/23
75-25-2	Bromoform	ND		57.3	43.7	76	39.4	71	10	54-109/24
108-90-7	Chlorobenzene	ND		57.3	57.8	101	51.2	92	12	64-130/24
75-00-3	Chloroethane	ND		57.3	63.4	111	58.1	104	9	53-172/28
67-66-3	Chloroform	ND		57.3	57.3	100	52.5	94	9	68-131/24
75-15-0	Carbon disulfide	ND		57.3	52.3	91	47.5	85	10	47-165/29
56-23-5	Carbon tetrachloride	ND		57.3	55.4	97	50.1	90	10	64-148/24
75-34-3	1,1-Dichloroethane	ND		57.3	66.6	116	61.8	111	7	64-130/25
75-35-4	1,1-Dichloroethylene	ND		57.3	56.0	98	52.0	93	7	55-149/28
107-06-2	1,2-Dichloroethane	ND		57.3	50.8	89	46.8	84	8	60-114/22
78-87-5	1,2-Dichloropropane	ND		57.3	69.9	122	64.1	115	9	65-128/23
124-48-1	Dibromochloromethane	ND		57.3	49.6	87	44.2	79	12	60-119/23
156-59-2	cis-1,2-Dichloroethylene	ND		57.3	61.2	107	56.7	101	8	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		57.3	60.5	106	53.8	96	12	57-118/25
156-60-5	trans-1,2-Dichloroethylene	ND		57.3	63.3	111	57.7	103	9	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		57.3	52.0	91	47.0	84	10	58-115/25
100-41-4	Ethylbenzene	ND		57.3	61.8	108	54.7	98	12	63-142/25
591-78-6	2-Hexanone	ND		286	230	80	206	74	11	35-109/34
108-10-1	4-Methyl-2-pentanone	ND		286	286	100*	257	92	11	44-99/32
74-83-9	Methyl bromide	ND		57.3	51.3	90	48.3	86	6	38-188/27
74-87-3	Methyl chloride	ND		57.3	61.7	108	58.1	104	6	57-160/29
75-09-2	Methylene chloride	ND		57.3	97.7	171	97.1	174	1	40-183/34
78-93-3	Methyl ethyl ketone	ND		286	197	69	178	64	10	27-112/32
100-42-5	Styrene	ND		57.3	44.9	78	39.6	71	13	54-130/26
71-55-6	1,1,1-Trichloroethane	ND		57.3	56.9	99	52.5	94	8	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		57.3	56.1	98	50.7	91	10	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		57.3	53.0	93	47.8	86	10	60-114/25
127-18-4	Tetrachloroethylene	ND		57.3	58.4	102	51.8	93	12	54-154/27
108-88-3	Toluene	ND		57.3	66.2	116	59.1	106	11	62-142/29
79-01-6	Trichloroethylene	ND		57.3	69.9	122	64.4	115	8	59-143/25
75-01-4	Vinyl chloride	ND		57.3	57.9	101	55.8	100	4	64-165/27
1330-20-7	Xylene (total)	ND		172	179	104	160	95	11	64-142/24

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24341-1MS	H025641.D	1	05/27/04	NAF	n/a	n/a	VH957
F24341-1MSD	H025642.D	1	05/27/04	NAF	n/a	n/a	VH957
F24341-1	H025637.D	1	05/27/04	NAF	n/a	n/a	VH957

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-2

CAS No.	Surrogate Recoveries	MS	MSD	F24341-1	Limits
1868-53-7	Dibromofluoromethane	91%	92%	95%	78-123%
2037-26-5	Toluene-D8	99%	99%	98%	71-137%
460-00-4	4-Bromofluorobenzene	112%	114%	109%	61-157%
17060-07-0	1,2-Dichloroethane-D4	83%	81%	93%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24458-1MS	J008240.D	1	06/04/04	RA	n/a	n/a	VJ352
F24458-1MSD	J008241.D	1	06/04/04	RA	n/a	n/a	VJ352
F24458-1	J008239.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Compound	F24458-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	95.3	76	92.8	74	3	45-127/15
71-43-2	Benzene	ND		25	24.1	96	23.8	95	1	72-125/7
75-27-4	Bromodichloromethane	ND		25	22.9	92	22.0	88	4	72-120/8
75-25-2	Bromoform	ND		25	23.3	93	23.9	96	3	55-127/11
108-90-7	Chlorobenzene	ND		25	23.3	93	22.6	90	3	79-113/7
75-00-3	Chloroethane	ND		25	29.5	118	26.1	104	12	56-164/14
67-66-3	Chloroform	ND		25	24.7	99	24.7	99	0	75-120/8
75-15-0	Carbon disulfide	ND		25	30.8	123	30.9	124	0	60-151/12
56-23-5	Carbon tetrachloride	ND		25	23.1	92	23.4	94	1	56-145/12
75-34-3	1,1-Dichloroethane	ND		25	24.9	100	24.2	97	3	70-122/10
75-35-4	1,1-Dichloroethylene	ND		25	25.3	101	25.3	101	0	61-137/15
107-06-2	1,2-Dichloroethane	ND		25	23.0	92	22.9	92	0	64-124/7
78-87-5	1,2-Dichloropropane	ND		25	25.1	100	24.1	96	4	74-123/8
124-48-1	Dibromochloromethane	ND		25	23.1	92	23.9	96	3	63-119/9
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.0	96	24.7	99	3	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.2	97	23.3	93	4	65-112/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	23.9	96	23.5	94	2	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.2	93	23.6	94	2	59-116/11
100-41-4	Ethylbenzene	5.3		25	27.0	87	25.7	82	5	73-119/8
591-78-6	2-Hexanone	ND		125	117	94	108	86	8	54-131/11
108-10-1	4-Methyl-2-pentanone	ND		125	121	97	117	94	3	57-136/11
74-83-9	Methyl bromide	ND		25	25.6	102	23.0	92	11	52-172/16
74-87-3	Methyl chloride	ND		25	30.8	123	27.6	110	11	53-155/19
75-09-2	Methylene chloride	ND		25	24.8	99	24.0	96	3	61-129/11
78-93-3	Methyl ethyl ketone	ND		125	132	106	120	96	10	51-128/10
100-42-5	Styrene	ND		25	24.7	99	24.3	97	2	64-124/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.3	93	24.0	96	3	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.2	101	23.2	93	8	64-120/10
79-00-5	1,1,2-Trichloroethane	ND		25	50.7	203*	40.3	161*	23*	72-116/9
127-18-4	Tetrachloroethylene	ND		25	21.1	84	21.0	84	0	70-126/9
108-88-3	Toluene	6.8		25	30.9	96	30.4	94	2	67-123/8
79-01-6	Trichloroethylene	ND		25	24.1	96	23.4	94	3	73-117/10
75-01-4	Vinyl chloride	ND		25	33.4	134	29.1	116	14	63-161/18
1330-20-7	Xylene (total)	33.6		75	106	97	102	91	4	73-122/7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24458-1MS	J008240.D	1	06/04/04	RA	n/a	n/a	VJ352
F24458-1MSD	J008241.D	1	06/04/04	RA	n/a	n/a	VJ352
F24458-1	J008239.D	1	06/04/04	RA	n/a	n/a	VJ352

The QC reported here applies to the following samples: Method: SW846 8260B

F24384-7

CAS No.	Surrogate Recoveries	MS	MSD	F24458-1	Limits
1868-53-7	Dibromofluoromethane	98%	99%	93%	86-115%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	98%	73-126%
2037-26-5	Toluene-D8	97%	97%	92%	86-112%
460-00-4	4-Bromofluorobenzene	103%	103%	92%	83-119%

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: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021773.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	500	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	670	250	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021773.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	83	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	90%	45-114%
4165-62-2	Phenol-d5	90%	44-124%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021773.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	88%	50-128%
4165-60-0	Nitrobenzene-d5	85%	41-123%
321-60-8	2-Fluorobiphenyl	89%	46-122%
1718-51-0	Terphenyl-d14	94%	45-135%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021829.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	500	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	670	250	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021829.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	83	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	91%	45-114%
4165-62-2	Phenol-d5	93%	44-124%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MB	L021829.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	81%	50-128%
4165-60-0	Nitrobenzene-d5	85%	41-123%
321-60-8	2-Fluorobiphenyl	83%	46-122%
1718-51-0	Terphenyl-d14	95%	45-135%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021772.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	3100	93	43-117
95-57-8	2-Chlorophenol	1670	1540	92	70-102
59-50-7	4-Chloro-3-methyl phenol	1670	1560	94	70-103
120-83-2	2,4-Dichlorophenol	1670	1560	94	70-101
105-67-9	2,4-Dimethylphenol	1670	1400	84	39-100
51-28-5	2,4-Dinitrophenol	3330	3010	90	34-131
534-52-1	4,6-Dinitro-o-cresol	3330	3400	102	55-122
95-48-7	2-Methylphenol	1670	1460	88	66-100
	3&4-Methylphenol	3330	2870	86	68-100
88-75-5	2-Nitrophenol	1670	1510	91	70-102
100-02-7	4-Nitrophenol	3330	3110	93	63-112
87-86-5	Pentachlorophenol	3330	3330	100	58-111
108-95-2	Phenol	1670	1480	89	68-99
95-95-4	2,4,5-Trichlorophenol	1670	1710	103	72-103
88-06-2	2,4,6-Trichlorophenol	1670	1660	100	68-100
83-32-9	Acenaphthene	1670	1690	101*	73-100
208-96-8	Acenaphthylene	1670	1600	96	75-111
120-12-7	Anthracene	1670	1700	102	76-106
56-55-3	Benzo(a)anthracene	1670	1660	100	76-105
50-32-8	Benzo(a)pyrene	1670	1770	106	74-116
205-99-2	Benzo(b)fluoranthene	1670	1730	104	73-114
191-24-2	Benzo(g,h,i)perylene	1670	1680	101	67-115
207-08-9	Benzo(k)fluoranthene	1670	1860	112	72-115
101-55-3	4-Bromophenyl phenyl ether	1670	1670	100	76-102
85-68-7	Butyl benzyl phthalate	1670	1640	98	70-111
100-51-6	Benzyl Alcohol	1670	1550	93	69-111
91-58-7	2-Chloronaphthalene	1670	1560	94	73-101
106-47-8	4-Chloroaniline	1670	958	57	18-101
86-74-8	Carbazole	1670	1610	97	74-113
218-01-9	Chrysene	1670	1690	101	76-102
111-91-1	bis(2-Chloroethoxy)methane	1670	1400	84	61-101
111-44-4	bis(2-Chloroethyl)ether	1670	1570	94	70-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1550	93	61-113
7005-72-3	4-Chlorophenyl phenyl ether	1670	1680	101	75-103
95-50-1	1,2-Dichlorobenzene	1670	1440	86	69-101
541-73-1	1,3-Dichlorobenzene	1670	1370	82	67-100

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021772.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1410	85	69-100
121-14-2	2,4-Dinitrotoluene	1670	1660	100	74-112
606-20-2	2,6-Dinitrotoluene	1670	1650	99	74-114
91-94-1	3,3'-Dichlorobenzidine	1670	1050	63	30-102
53-70-3	Dibenzo(a,h)anthracene	1670	1670	100	66-116
132-64-9	Dibenzofuran	1670	1600	96	75-101
84-74-2	Di-n-butyl phthalate	1670	1660	100	75-109
117-84-0	Di-n-octyl phthalate	1670	2000	120	64-128
84-66-2	Diethyl phthalate	1670	1700	102	75-109
131-11-3	Dimethyl phthalate	1670	1660	100	76-106
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1700	102	69-115
206-44-0	Fluoranthene	1670	1650	99	76-112
86-73-7	Fluorene	1670	1770	106*	75-105
118-74-1	Hexachlorobenzene	1670	1630	98	76-103
87-68-3	Hexachlorobutadiene	1670	1430	86	62-91
77-47-4	Hexachlorocyclopentadiene	1670	1310	79	33-112
67-72-1	Hexachloroethane	1670	1400	84	68-104
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1680	101	67-119
78-59-1	Isophorone	1670	1510	91	74-103
91-57-6	2-Methylnaphthalene	1670	1490	89	71-100
88-74-4	2-Nitroaniline	1670	1660	100	75-109
99-09-2	3-Nitroaniline	1670	1200	72	47-103
100-01-6	4-Nitroaniline	1670	1540	92	60-113
91-20-3	Naphthalene	1670	1490	89	73-100
98-95-3	Nitrobenzene	1670	1440	86	73-101
621-64-7	N-Nitroso-di-n-propylamine	1670	1390	83	69-104
86-30-6	N-Nitrosodiphenylamine	1670	1690	101	80-113
85-01-8	Phenanthrene	1670	1740	104	76-104
129-00-0	Pyrene	1670	1690	101	70-106
120-82-1	1,2,4-Trichlorobenzene	1670	1470	88	72-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	90%	45-114%
4165-62-2	Phenol-d5	88%	44-124%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021772.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	93%	50-128%
4165-60-0	Nitrobenzene-d5	84%	41-123%
321-60-8	2-Fluorobiphenyl	90%	46-122%
1718-51-0	Terphenyl-d14	92%	45-135%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021828.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	3230	97	43-117
95-57-8	2-Chlorophenol	1670	1620	97	70-102
59-50-7	4-Chloro-3-methyl phenol	1670	1710	103	70-103
120-83-2	2,4-Dichlorophenol	1670	1660	100	70-101
105-67-9	2,4-Dimethylphenol	1670	1330	80	39-100
51-28-5	2,4-Dinitrophenol	3330	3140	94	34-131
534-52-1	4,6-Dinitro-o-cresol	3330	3340	100	55-122
95-48-7	2-Methylphenol	1670	1580	95	66-100
	3&4-Methylphenol	3330	3200	96	68-100
88-75-5	2-Nitrophenol	1670	1570	94	70-102
100-02-7	4-Nitrophenol	3330	3150	95	63-112
87-86-5	Pentachlorophenol	3330	3300	99	58-111
108-95-2	Phenol	1670	1620	97	68-99
95-95-4	2,4,5-Trichlorophenol	1670	1610	97	72-103
88-06-2	2,4,6-Trichlorophenol	1670	1590	95	68-100
83-32-9	Acenaphthene	1670	1610	97	73-100
208-96-8	Acenaphthylene	1670	1530	92	75-111
120-12-7	Anthracene	1670	1630	98	76-106
56-55-3	Benzo(a)anthracene	1670	1690	101	76-105
50-32-8	Benzo(a)pyrene	1670	1710	103	74-116
205-99-2	Benzo(b)fluoranthene	1670	1660	100	73-114
191-24-2	Benzo(g,h,i)perylene	1670	1620	97	67-115
207-08-9	Benzo(k)fluoranthene	1670	1790	107	72-115
101-55-3	4-Bromophenyl phenyl ether	1670	1630	98	76-102
85-68-7	Butyl benzyl phthalate	1670	1700	102	70-111
100-51-6	Benzyl Alcohol	1670	1660	100	69-111
91-58-7	2-Chloronaphthalene	1670	1490	89	73-101
106-47-8	4-Chloroaniline	1670	941	56	18-101
86-74-8	Carbazole	1670	1600	96	74-113
218-01-9	Chrysene	1670	1720	103*	76-102
111-91-1	bis(2-Chloroethoxy)methane	1670	1420	85	61-101
111-44-4	bis(2-Chloroethyl)ether	1670	1560	94	70-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1630	98	61-113
7005-72-3	4-Chlorophenyl phenyl ether	1670	1570	94	75-103
95-50-1	1,2-Dichlorobenzene	1670	1460	88	69-101
541-73-1	1,3-Dichlorobenzene	1670	1390	83	67-100

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021828.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1410	85	69-100
121-14-2	2,4-Dinitrotoluene	1670	1620	97	74-112
606-20-2	2,6-Dinitrotoluene	1670	1610	97	74-114
91-94-1	3,3'-Dichlorobenzidine	1670	1060	64	30-102
53-70-3	Dibenzo(a,h)anthracene	1670	1610	97	66-116
132-64-9	Dibenzofuran	1670	1530	92	75-101
84-74-2	Di-n-butyl phthalate	1670	1600	96	75-109
117-84-0	Di-n-octyl phthalate	1670	1860	112	64-128
84-66-2	Diethyl phthalate	1670	1630	98	75-109
131-11-3	Dimethyl phthalate	1670	1570	94	76-106
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1660	100	69-115
206-44-0	Fluoranthene	1670	1580	95	76-112
86-73-7	Fluorene	1670	1700	102	75-105
118-74-1	Hexachlorobenzene	1670	1580	95	76-103
87-68-3	Hexachlorobutadiene	1670	1400	84	62-91
77-47-4	Hexachlorocyclopentadiene	1670	1260	76	33-112
67-72-1	Hexachloroethane	1670	1420	85	68-104
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1570	94	67-119
78-59-1	Isophorone	1670	1560	94	74-103
91-57-6	2-Methylnaphthalene	1670	1510	91	71-100
88-74-4	2-Nitroaniline	1670	1650	99	75-109
99-09-2	3-Nitroaniline	1670	1270	76	47-103
100-01-6	4-Nitroaniline	1670	1490	89	60-113
91-20-3	Naphthalene	1670	1510	91	73-100
98-95-3	Nitrobenzene	1670	1480	89	73-101
621-64-7	N-Nitroso-di-n-propylamine	1670	1520	91	69-104
86-30-6	N-Nitrosodiphenylamine	1670	1630	98	80-113
85-01-8	Phenanthrene	1670	1670	100	76-104
129-00-0	Pyrene	1670	1770	106	70-106
120-82-1	1,2,4-Trichlorobenzene	1670	1480	89	72-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	97%	45-114%
4165-62-2	Phenol-d5	99%	44-124%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-BS	L021828.D	1	06/08/04	ME	06/04/04	OP10599	SL1172

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	93%	50-128%
4165-60-0	Nitrobenzene-d5	88%	41-123%
321-60-8	2-Fluorobiphenyl	82%	46-122%
1718-51-0	Terphenyl-d14	93%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MS	L021776.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
OP10599-MSD	L021777.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
F24444-2	L021775.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	F24444-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	820 U		3340	ND	0*	ND	0*	nc	19-117/34
95-57-8	2-Chlorophenol	160 U		1670	1430	86	1470	89	3	54-104/18
59-50-7	4-Chloro-3-methyl phenol	160 U		1670	1540	92	1520	92	1	57-107/17
120-83-2	2,4-Dichlorophenol	160 U		1670	1530	92	1520	92	1	49-108/20
105-67-9	2,4-Dimethylphenol	160 U		1670	1470	88	1420	86	3	42-94/25
51-28-5	2,4-Dinitrophenol	820 U		3340	675	20*	666	20*	1	22-114/22
534-52-1	4,6-Dinitro-o-cresol	330 U		3340	2050	61	1960	59	4	35-117/25
95-48-7	2-Methylphenol	160 U		1670	1420	85	1400	85	1	54-100/18
	3&4-Methylphenol	160 U		3340	2770	83	2770	84	0	55-102/18
88-75-5	2-Nitrophenol	160 U		1670	1410	84	1390	84	1	48-108/19
100-02-7	4-Nitrophenol	820 U		3340	2970	89	2930	89	1	46-116/15
87-86-5	Pentachlorophenol	820 U		3340	2780	83	2680	81	4	45-112/16
108-95-2	Phenol	160 U		1670	1410	84	1440	87	2	54-104/17
95-95-4	2,4,5-Trichlorophenol	160 U		1670	1660	99	1590	97	4	56-108/23
88-06-2	2,4,6-Trichlorophenol	160 U		1670	1660	99	1550	94	7	57-102/14
83-32-9	Acenaphthene	160 U		1670	1690	101	1640	100	3	57-108/19
208-96-8	Acenaphthylene	160 U		1670	1580	95	1500	91	5	60-120/17
120-12-7	Anthracene	160 U		1670	1720	103	1650	100	4	68-105/16
56-55-3	Benzo(a)anthracene	160 U		1670	1690	101	1650	100	2	69-104/24
50-32-8	Benzo(a)pyrene	160 U		1670	1790	107	1750	106	2	66-114/26
205-99-2	Benzo(b)fluoranthene	160 U		1670	1820	109	1800	109	1	64-113/19
191-24-2	Benzo(g,h,i)perylene	160 U		1670	1680	101	1660	101	1	44-133/23
207-08-9	Benzo(k)fluoranthene	160 U		1670	1870	112*	1780	108	5	63-111/23
101-55-3	4-Bromophenyl phenyl ether	160 U		1670	1680	101	1610	98	4	67-102/15
85-68-7	Butyl benzyl phthalate	330 U		1670	1670	100	1640	100	2	61-113/16
100-51-6	Benzyl Alcohol	160 U		1670	1470	88	1450	88	1	57-111/17
91-58-7	2-Chloronaphthalene	160 U		1670	1540	92	1510	92	2	60-103/15
106-47-8	4-Chloroaniline	660 U		1670	496	30	422	26	16	22-104/27
86-74-8	Carbazole	160 U		1670	1520	91	1430	87	6	70-109/21
218-01-9	Chrysene	160 U		1670	1720	103*	1680	102	2	68-102/25
111-91-1	bis(2-Chloroethoxy)methane	160 U		1670	1320	79	1330	81	1	50-100/19
111-44-4	bis(2-Chloroethyl)ether	160 U		1670	1450	87	1570	95	8	56-105/20
108-60-1	bis(2-Chloroisopropyl)ether	160 U		1670	1480	89	1470	89	1	48-112/18
7005-72-3	4-Chlorophenyl phenyl ether	160 U		1670	1640	98	1610	98	2	64-105/13
95-50-1	1,2-Dichlorobenzene	160 U		1670	1360	81	1350	82	1	55-99/18
541-73-1	1,3-Dichlorobenzene	160 U		1670	1290	77	1310	80	2	53-98/19

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MS	L021776.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
OP10599-MSD	L021777.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
F24444-2	L021775.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Compound	F24444-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	160	U	1670	1340	80	1340	81	0	55-99/19
121-14-2	2,4-Dinitrotoluene	160	U	1670	2680	161*	1670	101	46*	66-107/14
606-20-2	2,6-Dinitrotoluene	160	U	1670	1660	99	1560	95	6	67-110/13
91-94-1	3,3'-Dichlorobenzidine	330	U	1670	502	30	411	25	20	25-103/24
53-70-3	Dibenzo(a,h)anthracene	160	U	1670	1690	101	1630	99	4	48-130/21
132-64-9	Dibenzofuran	160	U	1670	1640	98	1570	95	4	65-102/13
84-74-2	Di-n-butyl phthalate	330	U	1670	2150	129*	2380	144*	10	62-114/16
117-84-0	Di-n-octyl phthalate	330	U	1670	2060	123*	2020	123*	2	61-120/18
84-66-2	Diethyl phthalate	330	U	1670	1670	100	1610	98	4	67-104/13
131-11-3	Dimethyl phthalate	330	U	1670	1640	98	1570	95	4	66-104/13
117-81-7	bis(2-Ethylhexyl)phthalate	330	U	1670	1710	102	1660	101	3	62-115/16
206-44-0	Fluoranthene	160	U	1670	1670	100	1610	98	4	58-122/22
86-73-7	Fluorene	160	U	1670	1790	107	1710	104	5	64-107/21
118-74-1	Hexachlorobenzene	160	U	1670	1600	96	1580	96	1	66-103/16
87-68-3	Hexachlorobutadiene	160	U	1670	1360	81	1350	82	1	49-90/18
77-47-4	Hexachlorocyclopentadiene	160	U	1670	1340	80	1280	78	5	10-99/34
67-72-1	Hexachloroethane	160	U	1670	1280	77	1320	80	3	51-103/19
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	1670	1700	102	1640	100	4	48-132/23
78-59-1	Isophorone	160	U	1670	1440	86	1460	89	1	61-104/17
91-57-6	2-Methylnaphthalene	160	U	1670	1420	85	1420	86	0	59-99/21
88-74-4	2-Nitroaniline	330	U	1670	1650	99	1600	97	3	65-109/14
99-09-2	3-Nitroaniline	330	U	1670	786	47	784	48	0	44-98/21
100-01-6	4-Nitroaniline	330	U	1670	1030	62	931	57	10	54-109/19
91-20-3	Naphthalene	160	U	1670	1430	86	1440	87	1	59-100/21
98-95-3	Nitrobenzene	160	U	1670	1380	83	1400	85	1	59-102/18
621-64-7	N-Nitroso-di-n-propylamine	160	U	1670	1300	78	1330	81	2	55-106/19
86-30-6	N-Nitrosodiphenylamine	160	U	1670	1720	103	1660	101	4	69-116/16
85-01-8	Phenanthrene	160	U	1670	1760	105	1700	103	3	65-105/24
129-00-0	Pyrene	160	U	1670	1770	106	1690	103	5	62-107/26
120-82-1	1,2,4-Trichlorobenzene	160	U	1670	1390	83	1410	86	1	58-101/17

CAS No.	Surrogate Recoveries	MS	MSD	F24444-2	Limits
367-12-4	2-Fluorophenol	85%	87%		45-114%
4165-62-2	Phenol-d5	83%	85%		44-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10599-MS	L021776.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
OP10599-MSD	L021777.D	1	06/06/04	ME	06/04/04	OP10599	SL1170
F24444-2	L021775.D	1	06/05/04	ME	06/04/04	OP10599	SL1170

The QC reported here applies to the following samples: Method: SW846 8270C

F24384-2

CAS No.	Surrogate Recoveries	MS	MSD	F24444-2	Limits
118-79-6	2,4,6-Tribromophenol	92%	90%		50-128%
4165-60-0	Nitrobenzene-d5	79%	82%	78%	41-123%
321-60-8	2-Fluorobiphenyl	86%	84%	82%	46-122%
1718-51-0	Terphenyl-d14	93%	93%	88%	45-135%

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: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV805-MB	UV013421.D	1	06/02/04	NJ	n/a	n/a	GUV805

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	15	5.0	ug/l	
91-20-3	Naphthalene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	15	5.0	ug/l	
	m,p-Xylene	ND	20	7.5	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	75	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	20	10	ug/l	
	C5- C8 Aliphatics	ND	75	50	ug/l	
	C9- C12 Aliphatics	ND	55	30	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	110%	70-130%
460-00-4	BFB	106%	70-130%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV813-MB	UV013541.D	1	06/07/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-1, F24384-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	105%	70-130%
460-00-4	BFB	104%	70-130%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV814-MB	UV013564.D	1	06/08/04	NJ	n/a	n/a	GUV814

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-2, F24384-3, F24384-5, F24384-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	108%	70-130%
460-00-4	BFB	106%	70-130%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV805-BS [a]	UV013420.D	1	06/02/04	NJ	n/a	n/a	GUV805

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	80	76.1	95	70-130
100-41-4	Ethylbenzene	80	76.0	95	70-130
1634-04-4	Methyl Tert Butyl Ether	80	78.9	99	70-130
91-20-3	Naphthalene	80	75.6	95	70-130
108-88-3	Toluene	80	81.9	102	70-130
	m,p-Xylene	160	164	103	70-130
95-47-6	o-Xylene	80	79.3	99	70-130
	C5- C8 Aliphatics (Unadj.)	480	509	106	70-130
	C9- C12 Aliphatics (Unadj.)	480	467	97	70-130
	C9- C10 Aromatics (Unadj.)	80	82.5	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	120%	70-130%
460-00-4	BFB	113%	70-130%

(a) Insufficient sample for MS/MSD.

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV813-BS	UV013540.D	1	06/07/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-1, F24384-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	3720	93	70-130
100-41-4	Ethylbenzene	4000	3640	91	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	3650	91	70-130
91-20-3	Naphthalene	4000	3120	78	70-130
108-88-3	Toluene	4000	3820	96	70-130
	m,p-Xylene	8000	7700	96	70-130
95-47-6	o-Xylene	4000	3740	94	70-130
	C5- C8 Aliphatics (Unadj.)	24000	23200	97	70-130
	C9- C12 Aliphatics (Unadj.)	24000	22300	93	70-130
	C9- C10 Aromatics (Unadj.)	4000	4350	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	107%	70-130%
460-00-4	BFB	105%	70-130%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV814-BS	UV013563.D	1	06/08/04	NJ	n/a	n/a	GUV814

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-2, F24384-3, F24384-5, F24384-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	3680	92	70-130
100-41-4	Ethylbenzene	4000	3640	91	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	3830	96	70-130
91-20-3	Naphthalene	4000	3360	84	70-130
108-88-3	Toluene	4000	3920	98	70-130
	m,p-Xylene	8000	7780	97	70-130
95-47-6	o-Xylene	4000	3780	95	70-130
	C5- C8 Aliphatics (Unadj.)	24000	23500	98	70-130
	C9- C12 Aliphatics (Unadj.)	24000	21700	90	70-130
	C9- C10 Aromatics (Unadj.)	4000	3970	99	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	115%	70-130%
460-00-4	BFB	110%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24535-5MS	UV013559.D	1	06/08/04	NJ	n/a	n/a	GUV813
F24535-5MSD	UV013560.D	1	06/08/04	NJ	n/a	n/a	GUV813
F24535-5	UV013558.D	1	06/08/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-1, F24384-4

CAS No.	Compound	F24535-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		4530	3790	84	4030	89	6	70-130/50
100-41-4	Ethylbenzene	ND		4530	3650	81	3880	86	6	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		4530	4250	94	4560	101	7	70-130/50
91-20-3	Naphthalene	ND		4530	3900	86	4110	91	5	70-130/50
108-88-3	Toluene	ND		4530	3940	87	4190	92	6	70-130/50
	m,p-Xylene	ND		9070	7560	83	8090	89	7	70-130/50
95-47-6	o-Xylene	ND		4530	3740	83	3990	88	6	70-130/50
	C5- C8 Aliphatics (Unadj.)	ND		27200	23400	86	24900	92	6	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		27200	22000	81	23600	87	7	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		4530	3460	76	3790	84	9	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24535-5	Limits
460-00-4	BFB	100%	98%	96%	70-130%
460-00-4	BFB	97%	96%	95%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24384-2MS	UV013566.D	1	06/08/04	NJ	n/a	n/a	GUV814
F24384-2MSD	UV013567.D	1	06/08/04	NJ	n/a	n/a	GUV814
F24384-2	UV013565.D	1	06/08/04	NJ	n/a	n/a	GUV814

The QC reported here applies to the following samples: Method: MADEP VPH

F24384-2, F24384-3, F24384-5, F24384-6

CAS No.	Compound	F24384-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		44400	40500	91	41700	94	3	70-130/50
100-41-4	Ethylbenzene	ND		44400	39400	89	40500	91	3	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		44400	43500	98	44800	101	3	70-130/50
91-20-3	Naphthalene	3200	J	44400	46200	97	46200	97	0	70-130/50
108-88-3	Toluene	ND		44400	42300	95	43300	98	2	70-130/50
	m,p-Xylene	ND		88700	82500	93	85000	96	3	70-130/50
95-47-6	o-Xylene	ND		44400	40100	90	41200	93	3	70-130/50
	C5- C8 Aliphatics (Unadj.)	ND		266000	258000	97	266000	100	3	70-130/50
	C9- C12 Aliphatics (Unadj.)	173000		266000	456000	106	416000	91	9	70-130/50
	C9- C10 Aromatics (Unadj.)	110000		44400	175000	147* [a]	152000	95	14	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24384-2	Limits
460-00-4	BFB	103%	95%	101%	70-130%
460-00-4	BFB	85%	83%	85%	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MB	ZF13545.D	1	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-1, F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	62%	40-140%
580-13-2	2-Bromonaphthalene	90%	40-140%
84-15-1	o-Terphenyl	84%	40-140%
321-60-8	2-Fluorobiphenyl	86%	40-140%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MB	ZF13575.D	1	06/03/04	ME	05/27/04	OP10532	GZF631

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-1, F24384-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	65%	40-140%
580-13-2	2-Bromonaphthalene	94%	40-140%
84-15-1	o-Terphenyl	89%	40-140%
321-60-8	2-Fluorobiphenyl	91%	40-140%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10562-MB	ZF13674.D	1	06/09/04	SM	06/01/04	OP10562	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-3, F24384-4, F24384-5, F24384-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	59%	40-140%
580-13-2	2-Bromonaphthalene	96%	40-140%
84-15-1	o-Terphenyl	97%	40-140%
321-60-8	2-Fluorobiphenyl	94%	40-140%

Method Blank Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10562-MB	ZF13700.D	1	06/10/04	SM	06/01/04	OP10562	GZF637

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-3, F24384-4, F24384-5, F24384-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6600	6600	ug/kg	
	C9-C18 Aliphatics	ND	6600	6600	ug/kg	
	C11-C22 Aromatics	ND	6600	6600	ug/kg	
	C19-C36 Aliphatics	ND	6600	6600	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	56%	40-140%
580-13-2	2-Bromonaphthalene	93%	40-140%
84-15-1	o-Terphenyl	95%	40-140%
321-60-8	2-Fluorobiphenyl	91%	40-140%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-BS	ZF13544.D	1	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-1, F24384-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1420	85	40-140
208-96-8	Acenaphthylene	1670	1400	84	40-140
120-12-7	Anthracene	1670	1620	97	40-140
56-55-3	Benzo(a)anthracene	1670	1580	95	40-140
50-32-8	Benzo(a)pyrene	1670	1580	95	40-140
205-99-2	Benzo(b)fluoranthene	1670	1580	95	40-140
191-24-2	Benzo(g,h,i)perylene	1670	1560	94	40-140
207-08-9	Benzo(k)fluoranthene	1670	1580	95	40-140
218-01-9	Chrysene	1670	1620	97	40-140
53-70-3	Dibenzo(a,h)anthracene	1670	1580	95	40-140
206-44-0	Fluoranthene	1670	1590	95	40-140
86-73-7	Fluorene	1670	1500	90	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1550	93	40-140
91-57-6	2-Methylnaphthalene	1670	1360	82	40-140
91-20-3	Naphthalene	1670	1250	75	40-140
85-01-8	Phenanthrene	1670	1570	94	40-140
129-00-0	Pyrene	1670	1990	119	40-140
	C11-C22 Aromatics (Unadj.)	28300	25700	91	40-140
	C9-C18 Aliphatics	10000	10400	104	40-140
	C19-C36 Aliphatics	13300	12100	91	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	57%	40-140%
580-13-2	2-Bromonaphthalene	90%	40-140%
84-15-1	o-Terphenyl	85%	40-140%
321-60-8	2-Fluorobiphenyl	89%	40-140%

Blank Spike Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10562-BS	ZF13673.D	1	06/09/04	SM	06/01/04	OP10562	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-3, F24384-4, F24384-5, F24384-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1480	89	40-140
208-96-8	Acenaphthylene	1670	1480	89	40-140
120-12-7	Anthracene	1670	1750	105	40-140
56-55-3	Benzo(a)anthracene	1670	1730	104	40-140
50-32-8	Benzo(a)pyrene	1670	1760	106	40-140
205-99-2	Benzo(b)fluoranthene	1670	1720	103	40-140
191-24-2	Benzo(g,h,i)perylene	1670	1650	99	40-140
207-08-9	Benzo(k)fluoranthene	1670	1720	103	40-140
218-01-9	Chrysene	1670	1780	107	40-140
53-70-3	Dibenzo(a,h)anthracene	1670	1700	102	40-140
206-44-0	Fluoranthene	1670	1740	104	40-140
86-73-7	Fluorene	1670	1620	97	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1680	101	40-140
91-57-6	2-Methylnaphthalene	1670	1390	83	40-140
91-20-3	Naphthalene	1670	1250	75	40-140
85-01-8	Phenanthrene	1670	1700	102	40-140
129-00-0	Pyrene	1670	2080	125	40-140
	C11-C22 Aromatics (Unadj.)	28300	25700	91	40-140
	C9-C18 Aliphatics	10000	12300	123	40-140
	C19-C36 Aliphatics	13300	13700	103	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	68%	40-140%
580-13-2	2-Bromonaphthalene	87%	40-140%
84-15-1	o-Terphenyl	90%	40-140%
321-60-8	2-Fluorobiphenyl	89%	40-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-MS	ZF13547.D	40	06/02/04	ME	05/27/04	OP10532	GZF630
OP10532-MSD	ZF13548.D	40	06/02/04	ME	05/27/04	OP10532	GZF630
F24298-1	ZF13569.D	40	06/03/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-1, F24384-2

CAS No.	Compound	F24298-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
208-96-8	Acenaphthylene	ND		2050	ND	0*	ND	0*	nc	40-140/50
120-12-7	Anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
56-55-3	Benzo(a)anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
50-32-8	Benzo(a)pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
205-99-2	Benzo(b)fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
191-24-2	Benzo(g,h,i)perylene	ND		2050	ND	0*	ND	0*	nc	40-140/50
207-08-9	Benzo(k)fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
218-01-9	Chrysene	ND		2050	ND	0*	ND	0*	nc	40-140/50
53-70-3	Dibenzo(a,h)anthracene	ND		2050	ND	0*	ND	0*	nc	40-140/50
206-44-0	Fluoranthene	ND		2050	ND	0*	ND	0*	nc	40-140/50
86-73-7	Fluorene	7550	J	2050	9560	98	7740	9* [a]	21	40-140/50
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
91-57-6	2-Methylnaphthalene	27800		2050	28500	34* [a]	21900	-288* [a]	26	40-140/50
91-20-3	Naphthalene	ND		2050	ND	0*	ND	0*	nc	40-140/50
85-01-8	Phenanthrene	ND		2050	7660	374*	ND	0*	200*	40-140/50
129-00-0	Pyrene	ND		2050	ND	0*	ND	0*	nc	40-140/50
	C11-C22 Aromatics (Unadj.)	1380000		34800	1580000	575* [a]	1120000	-747* [a]	34	40-140/50
	C9-C18 Aliphatics	2850000		12300	2500000	-2849* [a]	2260000	-4803* [a]	10	40-140/50
	C11-C22 Aromatics	1330000		34800	1530000	575* [a]	1080000	-718* [a]	34*	50-150/30 [b]
	C19-C36 Aliphatics	405000		16400	359000	-281* [a]	ND	-2473* [a]	200*	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F24298-1	Limits
3386-33-2	1-Chlorooctadecane	0%* [c]	0%* [c]	0%* [c]	40-140%
580-13-2	2-Bromonaphthalene	0%* [c]	0%* [c]	0%* [c]	40-140%
84-15-1	o-Terphenyl	0%* [c]	0%* [c]	0%* [c]	40-140%
321-60-8	2-Fluorobiphenyl	0%* [c]	0%* [c]	0%* [c]	40-140%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Advisory control limits.
(c) Outside control limits due to dilution.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10562-MS	ZF13691.D	1	06/10/04	SM	06/01/04	OP10562	GZF636
OP10562-MSD	ZF13692.D	1	06/10/04	SM	06/01/04	OP10562	GZF636
F24385-6	ZF13690.D	1	06/10/04	SM	06/01/04	OP10562	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-3, F24384-4, F24384-5, F24384-6

CAS No.	Compound	F24385-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		2030	1460	72	1850	91	24	40-140/50
208-96-8	Acenaphthylene	ND		2030	1450	72	1860	91	25	40-140/50
120-12-7	Anthracene	ND		2030	1940	96	2160	106	11	40-140/50
56-55-3	Benzo(a)anthracene	ND		2030	1990	98	2200	108	10	40-140/50
50-32-8	Benzo(a)pyrene	ND		2030	1940	96	2260	111	15	40-140/50
205-99-2	Benzo(b)fluoranthene	ND		2030	2010	99	2210	108	9	40-140/50
191-24-2	Benzo(g,h,i)perylene	ND		2030	1920	95	2140	105	11	40-140/50
207-08-9	Benzo(k)fluoranthene	ND		2030	1980	98	2160	106	9	40-140/50
218-01-9	Chrysene	ND		2030	2040	101	2230	109	9	40-140/50
53-70-3	Dibenzo(a,h)anthracene	ND		2030	1970	97	2170	106	10	40-140/50
206-44-0	Fluoranthene	ND		2030	1980	98	2210	108	11	40-140/50
86-73-7	Fluorene	ND		2030	1630	80	1960	96	18	40-140/50
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2030	1970	97	2160	106	9	40-140/50
91-57-6	2-Methylnaphthalene	ND		2030	1360	67	1820	89	29	40-140/50
91-20-3	Naphthalene	ND		2030	1230	61	1700	83	32	40-140/50
85-01-8	Phenanthrene	ND		2030	1830	90	2090	102	13	40-140/50
129-00-0	Pyrene	ND		2030	2460	121	2660	130	8	40-140/50
	C11-C22 Aromatics (Unadj.)	ND		34400	28000	81	31600	91	12	40-140/50
	C9-C18 Aliphatics	ND		12200	11500	95	13000	106	12	40-140/50
	C19-C36 Aliphatics	ND		16200	16300	101	17200	105	5	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F24385-6	Limits
3386-33-2	1-Chlorooctadecane	61%	66%	50%	40-140%
580-13-2	2-Bromonaphthalene	91%	103%	77%	40-140%
84-15-1	o-Terphenyl	82%	91%	76%	40-140%
321-60-8	2-Fluorobiphenyl	89%	103%	88%	40-140%

Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10532-DUP	ZF13581.D	10	06/03/04	ME	05/27/04	OP10532	GZF631
F24344-5	ZF13558.D	20	06/02/04	ME	05/27/04	OP10532	GZF630

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-1, F24384-2

CAS No.	Compound	F24344-5 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	4350	J	1610	J	92*	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	18100		6070		100*	
91-20-3	Naphthalene	3410	J	ND		200*	
85-01-8	Phenanthrene	4020	J	ND		200*	
129-00-0	Pyrene	ND		ND		nc	
	C11-C22 Aromatics (Unadj.)	1070000		347000		102*	
	C9-C18 Aliphatics	1550000		457000		109*	
	C11-C22 Aromatics	1040000		337000		102*	
	C19-C36 Aliphatics	340000		108000		104*	

CAS No.	Surrogate Recoveries	DUP	F24344-5	Limits
3386-33-2	1-Chlorooctadecane	61%	0%* [a]	40-140%
580-13-2	2-Bromonaphthalene	108%	0%* [a]	40-140%
84-15-1	o-Terphenyl	136%	0%* [a]	40-140%
321-60-8	2-Fluorobiphenyl	99%	0%* [a]	40-140%

(a) Outside control limits due to dilution.

Duplicate Summary

Job Number: F24384
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2469

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10562-DUP	ZF13688.D	1	06/10/04	SM	06/01/04	OP10562	GZF636
F24385-4	ZF13687.D	1	06/10/04	SM	06/01/04	OP10562	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24384-3, F24384-4, F24384-5, F24384-6

CAS No.	Compound	F24385-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	ND		ND		nc	
91-20-3	Naphthalene	ND		ND		nc	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	
	C11-C22 Aromatics (Unadj.)	ND		ND		nc	
	C9-C18 Aliphatics	ND		ND		nc	
	C11-C22 Aromatics	ND		ND		nc	
	C19-C36 Aliphatics	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F24385-4	Limits
3386-33-2	1-Chlorooctadecane	58%	49%	40-140%
580-13-2	2-Bromonaphthalene	90%	95%	40-140%
84-15-1	o-Terphenyl	80%	79%	40-140%
321-60-8	2-Fluorobiphenyl	87%	92%	40-140%

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06/16/04

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT2475

102463

Accutest Job Number: F24535

Sampling Date: 06/02/04

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **53**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F24535

Camp Lejeune-TT2475
Project No: 102463

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F24535-1	06/02/04	14:50	MM	06/03/04	SO	Soil	2475-F2475-001
F24535-2	06/02/04	15:00	MM	06/03/04	SO	Soil	2475-NW-002
F24535-3	06/02/04	15:10	MM	06/03/04	SO	Soil	2475-EW-003
F24535-4	06/02/04	15:20	MM	06/03/04	SO	Soil	2475-WW-004
F24535-5	06/02/04	15:30	MM	06/03/04	SO	Soil	2475-SW-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Report of Analysis

Client Sample ID:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8260B SW846 5035	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H025895.D	1	06/10/04	NAF	06/03/04 12:45	n/a	VH967
Run #2							

	Initial Weight
Run #1	5.27 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	722	53	27	ug/kg	
71-43-2	Benzene	ND	5.3	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	2.1	ug/kg	
75-25-2	Bromoform	ND	5.3	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	3.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	2.1	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
75-09-2	Methylene chloride	ND	11	5.3	ug/kg	
78-93-3	Methyl ethyl ketone	234	27	11	ug/kg	
100-42-5	Styrene	ND	5.3	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	2.1	ug/kg	
108-88-3	Toluene	ND	5.3	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	2.1	ug/kg	

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:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8260B SW846 5035	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.3	2.7	ug/kg	
1330-20-7	Xylene (total)	ND	16	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		78-123%
2037-26-5	Toluene-D8	99%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021894.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	930	560	ug/kg	
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	930	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	74	ug/kg	
95-48-7	2-Methylphenol	ND	190	37	ug/kg	
	3&4-Methylphenol	ND	190	37	ug/kg	
88-75-5	2-Nitrophenol	ND	190	37	ug/kg	
100-02-7	4-Nitrophenol	ND	930	370	ug/kg	
87-86-5	Pentachlorophenol	ND	930	370	ug/kg	
108-95-2	Phenol	ND	190	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	37	ug/kg	
83-32-9	Acenaphthene	ND	190	37	ug/kg	
208-96-8	Acenaphthylene	ND	190	37	ug/kg	
120-12-7	Anthracene	ND	190	37	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	74	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	93	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	37	ug/kg	
106-47-8	4-Chloroaniline	ND	740	280	ug/kg	
86-74-8	Carbazole	ND	190	37	ug/kg	
218-01-9	Chrysene	ND	190	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	74	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	37	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	190	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	74	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	74	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	74	ug/kg	
132-64-9	Dibenzofuran	ND	190	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	93	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	190	ug/kg	
84-66-2	Diethyl phthalate	ND	370	93	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	93	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	190	ug/kg	
206-44-0	Fluoranthene	ND	190	37	ug/kg	
86-73-7	Fluorene	ND	190	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	74	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	74	ug/kg	
67-72-1	Hexachloroethane	ND	190	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	74	ug/kg	
78-59-1	Isophorone	ND	190	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	37	ug/kg	
88-74-4	2-Nitroaniline	ND	370	93	ug/kg	
99-09-2	3-Nitroaniline	ND	370	93	ug/kg	
100-01-6	4-Nitroaniline	ND	370	93	ug/kg	
91-20-3	Naphthalene	ND	190	37	ug/kg	
98-95-3	Nitrobenzene	ND	190	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	74	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	37	ug/kg	
85-01-8	Phenanthrene	ND	190	37	ug/kg	
129-00-0	Pyrene	ND	190	74	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		45-114%
4165-62-2	Phenol-d5	69%		44-124%
118-79-6	2,4,6-Tribromophenol	72%		50-128%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		41-123%
321-60-8	2-Fluorobiphenyl	66%		46-122%
1718-51-0	Terphenyl-d14	72%		45-135%

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:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013554.D	1	06/07/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	270	110	ug/kg	
100-41-4	Ethylbenzene	ND	270	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	810	270	ug/kg	
91-20-3	Naphthalene	ND	540	300	ug/kg	
108-88-3	Toluene	ND	810	270	ug/kg	
	m,p-Xylene	ND	1100	410	ug/kg	
95-47-6	o-Xylene	ND	540	270	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	540	ug/kg	
	C5- C8 Aliphatics	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics	ND	3000	1600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	91%		70-130%
460-00-4	BFB	91%		70-130%

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:	2475-F2475-001		
Lab Sample ID:	F24535-1	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	89.1
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13723.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	370	150	ug/kg	
208-96-8	Acenaphthylene	ND	370	150	ug/kg	
120-12-7	Anthracene	ND	370	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	150	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	150	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	150	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	150	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	370	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	150	ug/kg	
206-44-0	Fluoranthene	ND	370	150	ug/kg	
86-73-7	Fluorene	ND	370	150	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	150	ug/kg	
91-20-3	Naphthalene	ND	370	150	ug/kg	
85-01-8	Phenanthrene	ND	370	150	ug/kg	
129-00-0	Pyrene	ND	370	150	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	7500	7500	ug/kg	
	C9-C18 Aliphatics	ND	7500	7500	ug/kg	
	C11-C22 Aromatics	ND	7500	7500	ug/kg	
	C19-C36 Aliphatics	ND	7500	7500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	54%		40-140%
580-13-2	2-Bromonaphthalene	96%		40-140%
84-15-1	o-Terphenyl	83%		40-140%
321-60-8	2-Fluorobiphenyl	98%		40-140%

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:	2475-NW-002		
Lab Sample ID:	F24535-2	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	79.7
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013555.D	1	06/08/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.79 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	270	110	ug/kg	
100-41-4	Ethylbenzene	ND	270	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	810	270	ug/kg	
91-20-3	Naphthalene	ND	540	300	ug/kg	
108-88-3	Toluene	ND	810	270	ug/kg	
	m,p-Xylene	ND	1100	410	ug/kg	
95-47-6	o-Xylene	ND	540	270	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	540	ug/kg	
	C5- C8 Aliphatics	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics	ND	3000	1600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	92%		70-130%
460-00-4	BFB	91%		70-130%

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:	2475-NW-002		
Lab Sample ID:	F24535-2	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.7
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13727.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8300	8300	ug/kg	
	C9-C18 Aliphatics	ND	8300	8300	ug/kg	
	C11-C22 Aromatics	ND	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	50%		40-140%
580-13-2	2-Bromonaphthalene	105%		40-140%
84-15-1	o-Terphenyl	85%		40-140%
321-60-8	2-Fluorobiphenyl	103%		40-140%

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:	2475-EW-003		
Lab Sample ID:	F24535-3	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	83.9
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013556.D	1	06/08/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.81 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	260	100	ug/kg	
100-41-4	Ethylbenzene	ND	260	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	770	260	ug/kg	
91-20-3	Naphthalene	ND	510	280	ug/kg	
108-88-3	Toluene	ND	770	260	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	510	260	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2100	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	510	ug/kg	
	C5- C8 Aliphatics	ND	3800	2100	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	82%		70-130%
460-00-4	BFB	82%		70-130%

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:	2475-EW-003		
Lab Sample ID:	F24535-3	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	83.9
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13764.D	1	06/16/04	SM	06/07/04	OP10612	GZF639
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	390	160	ug/kg	
208-96-8	Acenaphthylene	ND	390	160	ug/kg	
120-12-7	Anthracene	ND	390	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	390	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	390	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	390	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	390	160	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	390	160	ug/kg	
218-01-9	Chrysene	ND	390	160	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	390	160	ug/kg	
206-44-0	Fluoranthene	ND	390	160	ug/kg	
86-73-7	Fluorene	ND	390	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	390	160	ug/kg	
91-57-6	2-Methylnaphthalene	ND	390	160	ug/kg	
91-20-3	Naphthalene	ND	390	160	ug/kg	
85-01-8	Phenanthrene	ND	390	160	ug/kg	
129-00-0	Pyrene	ND	390	160	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	7900	7900	ug/kg	
	C9-C18 Aliphatics	ND	7900	7900	ug/kg	
	C11-C22 Aromatics	ND	7900	7900	ug/kg	
	C19-C36 Aliphatics	ND	7900	7900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	47%		40-140%
580-13-2	2-Bromonaphthalene	103%		40-140%
84-15-1	o-Terphenyl	89%		40-140%
321-60-8	2-Fluorobiphenyl	101%		40-140%

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:	2475-WW-004		
Lab Sample ID:	F24535-4	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	79.4
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013557.D	1	06/08/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.25 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	120	ug/kg	
100-41-4	Ethylbenzene	ND	300	150	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	900	300	ug/kg	
91-20-3	Naphthalene	ND	600	330	ug/kg	
108-88-3	Toluene	ND	900	300	ug/kg	
	m,p-Xylene	ND	1200	450	ug/kg	
95-47-6	o-Xylene	ND	600	300	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics (Unadj.)	1860	3300	1800	ug/kg	J
	C9- C10 Aromatics (Unadj.)	ND	1200	600	ug/kg	
	C5- C8 Aliphatics	ND	4500	2400	ug/kg	
	C9- C12 Aliphatics	1800	3300	1800	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	90%		70-130%
460-00-4	BFB	90%		70-130%

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:	2475-WW-004		
Lab Sample ID:	F24535-4	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.4
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13729.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	420	170	ug/kg	
208-96-8	Acenaphthylene	ND	420	170	ug/kg	
120-12-7	Anthracene	ND	420	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	420	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	170	ug/kg	
206-44-0	Fluoranthene	ND	420	170	ug/kg	
86-73-7	Fluorene	ND	420	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	170	ug/kg	
91-20-3	Naphthalene	ND	420	170	ug/kg	
85-01-8	Phenanthrene	ND	420	170	ug/kg	
129-00-0	Pyrene	ND	420	170	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	8400	8400	ug/kg	
	C9-C18 Aliphatics	ND	8400	8400	ug/kg	
	C11-C22 Aromatics	ND	8400	8400	ug/kg	
	C19-C36 Aliphatics	ND	8400	8400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	90%		40-140%
84-15-1	o-Terphenyl	87%		40-140%
321-60-8	2-Fluorobiphenyl	95%		40-140%

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:	2475-SW-005		
Lab Sample ID:	F24535-5	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP VPH	Percent Solids:	88.6
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV013558.D	1	06/08/04	NJ	n/a	n/a	GUV813
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.98 g	5.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	110	ug/kg	
100-41-4	Ethylbenzene	ND	280	140	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	850	280	ug/kg	
91-20-3	Naphthalene	ND	570	310	ug/kg	
108-88-3	Toluene	ND	850	280	ug/kg	
	m,p-Xylene	ND	1100	420	ug/kg	
95-47-6	o-Xylene	ND	570	280	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	4200	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	570	ug/kg	
	C5- C8 Aliphatics	ND	4200	2300	ug/kg	
	C9- C12 Aliphatics	ND	3100	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	96%		70-130%
460-00-4	BFB	95%		70-130%

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:	2475-SW-005		
Lab Sample ID:	F24535-5	Date Sampled:	06/02/04
Matrix:	SO - Soil	Date Received:	06/03/04
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	88.6
Project:	Camp Lejeune-TT2475		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF13730.D	1	06/15/04	SM	06/07/04	OP10612	GZF638
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	370	150	ug/kg	
208-96-8	Acenaphthylene	ND	370	150	ug/kg	
120-12-7	Anthracene	ND	370	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	150	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	150	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	150	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	150	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	370	150	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	150	ug/kg	
206-44-0	Fluoranthene	ND	370	150	ug/kg	
86-73-7	Fluorene	ND	370	150	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	150	ug/kg	
91-20-3	Naphthalene	ND	370	150	ug/kg	
85-01-8	Phenanthrene	ND	370	150	ug/kg	
129-00-0	Pyrene	ND	370	150	ug/kg	
	C11-C22 Aromatics (Unadj.)	29600	7400	7400	ug/kg	
	C9-C18 Aliphatics	37200	7400	7400	ug/kg	
	C11-C22 Aromatics	29600	7400	7400	ug/kg	
	C19-C36 Aliphatics	22400	7400	7400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	44%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%
84-15-1	o-Terphenyl	83%		40-140%
321-60-8	2-Fluorobiphenyl	83%		40-140%

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:
102463-TT2475-060204

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F245325 mm 6/3/04

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

Receiving LAB:ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - TT2475	CAMP LEJEUNE, NC

Project Number	Contact	P.O. Number	Reviewed by
102463	Mark Martin		

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	MEDEP EPH	MEDEP VPH	8260	8270	Field FID Readings
1	2475-F2475-001	6/2/04	14:50		X	Excav 2475 Floor	7	X	X	X	X	597.0
2	2475-NW-002	6/2/04	15:00		X	Excav 2475 North Wall	4	X	X			1.1
3	2475-EW-003	6/2/04	15:10		X	Excav 2475 East Wall	4	X	X			1.0
4	2475-WW-004	6/2/04	15:20		X	Excav 2475 West Wall	4	X	X			0.8
5	2475-SW-005	6/2/04	15:30		X	Excav 2475 South Wall	4	X	X			14.2
6												
7												
8												
9												
10												
11												

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-5	[signature]	FedEx	6/2/04	16:00	14 DAY TAT
2		FedEx	[signature]	6/3/04	9:00	
3						

F24535: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24535

Client: Shaw E+I Project: Camp Lejeune

Date Received: 6/3/04 Time Received: 9:00

# of Coolers Received: 1 Cooler Temperatures: 2.2

Delivery Method: (FedEx) UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: with WO# F24532

Cooler Custody Seals Intact ?	(Yes)	No	
Chain of Custody Provided ?	(Yes)	No	
COC Match Bottle Label ID's ?	(Yes)	No	
Sample Labels Present on all bottles ?	(Yes)	No	
All Analyses Marked On COC ?	(Yes)	No	
Are All Bottles Intact ?	(Yes)	No	
Samples Preserved Correctly ?	(Yes)	No	
Correct Number of Containers Used ?	(Yes)	No	
Sufficient Sample Volume ?	(Yes)	No	
Trip Blank Provided ?	Yes	(No)	
Trip Blank on COC ?	Yes	(No)	
Trip Blank Intact ?	Yes	No	(N/A)
Trip Blank Matrix ?	Soil	Water	(N/A)
Number of Encores ?	Ø		
Number of Soil Field Kits ?	Ø		

Summary of Comments: _____

Signature: _____ Date: 6/3/04

Review Signature: _____

ASBD 12/30/03

F24535: Chain of Custody
Page 2 of 2

GC/MS 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: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH967-MB	H025880.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	3.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.5	ug/kg	

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH967-MB	H025880.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	78-123%
2037-26-5	Toluene-D8	101%	71-137%
460-00-4	4-Bromofluorobenzene	103%	61-157%
17060-07-0	1,2-Dichloroethane-D4	104%	74-125%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH967-BS	H025881.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	180	72	51-136
71-43-2	Benzene	50	54.5	109	74-124
75-27-4	Bromodichloromethane	50	51.4	103	74-124
75-25-2	Bromoform	50	51.3	103	79-127
108-90-7	Chlorobenzene	50	50.8	102	78-117
75-00-3	Chloroethane	50	54.5	109	63-147
67-66-3	Chloroform	50	52.1	104	75-121
75-15-0	Carbon disulfide	50	70.2	140	59-148
56-23-5	Carbon tetrachloride	50	55.1	110	67-131
75-34-3	1,1-Dichloroethane	50	55.7	111	71-118
75-35-4	1,1-Dichloroethylene	50	57.3	115	64-126
107-06-2	1,2-Dichloroethane	50	51.0	102	72-120
78-87-5	1,2-Dichloropropane	50	54.5	109	74-126
124-48-1	Dibromochloromethane	50	50.3	101	78-120
156-59-2	cis-1,2-Dichloroethylene	50	53.9	108	75-124
10061-01-5	cis-1,3-Dichloropropene	50	53.2	106	72-120
156-60-5	trans-1,2-Dichloroethylene	50	54.1	108	70-122
10061-02-6	trans-1,3-Dichloropropene	50	50.5	101	75-118
100-41-4	Ethylbenzene	50	51.4	103	77-120
591-78-6	2-Hexanone	250	240	96	68-136
108-10-1	4-Methyl-2-pentanone	250	258	103	69-136
74-83-9	Methyl bromide	50	50.4	101	52-156
74-87-3	Methyl chloride	50	53.5	107	63-142
75-09-2	Methylene chloride	50	58.9	118	51-142
78-93-3	Methyl ethyl ketone	250	223	89	63-138
100-42-5	Styrene	50	50.6	101	74-120
71-55-6	1,1,1-Trichloroethane	50	54.3	109	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	51.8	104	76-121
79-00-5	1,1,2-Trichloroethane	50	50.6	101	77-118
127-18-4	Tetrachloroethylene	50	52.4	105	68-127
108-88-3	Toluene	50	51.4	103	74-118
79-01-6	Trichloroethylene	50	51.4	103	72-122
75-01-4	Vinyl chloride	50	54.3	109	64-144
1330-20-7	Xylene (total)	150	152	101	78-122

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VH967-BS	H025881.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	78-123%
2037-26-5	Toluene-D8	98%	71-137%
460-00-4	4-Bromofluorobenzene	101%	61-157%
17060-07-0	1,2-Dichloroethane-D4	95%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24590-1MS	H025891.D	1	06/10/04	NAF	n/a	n/a	VH967
F24590-1MSD	H025892.D	1	06/10/04	NAF	n/a	n/a	VH967
F24590-1	H025889.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Compound	F24590-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	61.6	I	256	169	42	146	33	15	14-140/33
71-43-2	Benzene	6.9 U		51.1	52.1	102	51.1	101	2	63-135/23
75-27-4	Bromodichloromethane	6.9 U		51.1	48.5	95	47.8	94	1	63-126/23
75-25-2	Bromoform	6.9 U		51.1	46.3	91	42.9	85	8	54-109/24
108-90-7	Chlorobenzene	6.9 U		51.1	47.4	93	45.0	89	5	64-130/24
75-00-3	Chloroethane	6.9 U		51.1	67.4	132	66.2	131	2	53-172/28
67-66-3	Chloroform	6.9 U		51.1	52.0	102	52.1	103	0	68-131/24
75-15-0	Carbon disulfide	6.9 U		51.1	68.4	134	66.1	131	3	47-165/29
56-23-5	Carbon tetrachloride	6.9 U		51.1	46.0	90	43.4	86	6	64-148/24
75-34-3	1,1-Dichloroethane	6.9 U		51.1	58.3	114	56.8	112	3	64-130/25
75-35-4	1,1-Dichloroethylene	6.9 U		51.1	58.2	114	56.9	112	2	55-149/28
107-06-2	1,2-Dichloroethane	6.9 U		51.1	50.2	98	48.5	96	3	60-114/22
78-87-5	1,2-Dichloropropane	6.9 U		51.1	50.1	98	50.1	99	0	65-128/23
124-48-1	Dibromochloromethane	6.9 U		51.1	52.5	103	51.8	102	1	60-119/23
156-59-2	cis-1,2-Dichloroethylene	6.9 U		51.1	55.1	108	53.9	107	2	66-132/24
10061-01-5	cis-1,3-Dichloropropene	6.9 U		51.1	48.2	94	46.7	92	3	57-118/25
156-60-5	trans-1,2-Dichloroethylene	6.9 U		51.1	55.2	108	54.7	108	1	63-137/27
10061-02-6	trans-1,3-Dichloropropene	6.9 U		51.1	54.4	106	54.2	107	0	58-115/25
100-41-4	Ethylbenzene	6.9 U		51.1	43.1	84	41.4	82	4	63-142/25
591-78-6	2-Hexanone	35 U		256	264	103	244	96	8	35-109/34
108-10-1	4-Methyl-2-pentanone	35 U		256	247	97	224	89	10	44-99/32
74-83-9	Methyl bromide	6.9 U		51.1	62.6	122	62.7	124	0	38-188/27
74-87-3	Methyl chloride	6.9 U		51.1	71.5	140	68.9	136	4	57-160/29
75-09-2	Methylene chloride	14 U		51.1	69.6	136	74.8	148	7	40-183/34
78-93-3	Methyl ethyl ketone	28.9	I	256	198	66	172	57	14	27-112/32
100-42-5	Styrene	6.9 U		51.1	41.9	82	38.8	77	8	54-130/26
71-55-6	1,1,1-Trichloroethane	6.9 U		51.1	50.3	98	49.3	97	2	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	6.9 U		51.1	79.3	155*	82.2	162*	4	45-121/33
79-00-5	1,1,2-Trichloroethane	6.9 U		51.1	55.0	108	54.9	108	0	60-114/25
127-18-4	Tetrachloroethylene	6.9 U		51.1	54.9	107	55.7	110	1	54-154/27
108-88-3	Toluene	6.9 U		51.1	55.4	108	56.8	112	2	62-142/29
79-01-6	Trichloroethylene	6.9 U		51.1	60.6	119	66.2	131	9	59-143/25
75-01-4	Vinyl chloride	6.9 U		51.1	69.3	136	67.9	134	2	64-165/27
1330-20-7	Xylene (total)	21 U		153	131	85	127	84	3	64-142/24

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24590-1MS	H025891.D	1	06/10/04	NAF	n/a	n/a	VH967
F24590-1MSD	H025892.D	1	06/10/04	NAF	n/a	n/a	VH967
F24590-1	H025889.D	1	06/10/04	NAF	n/a	n/a	VH967

The QC reported here applies to the following samples: Method: SW846 8260B

F24535-1

CAS No.	Surrogate Recoveries	MS	MSD	F24590-1	Limits
1868-53-7	Dibromofluoromethane	102%	100%	95%	78-123%
2037-26-5	Toluene-D8	108%	109%	106%	71-137%
460-00-4	4-Bromofluorobenzene	138%	142%	117%	61-157%
17060-07-0	1,2-Dichloroethane-D4	95%	93%	98%	74-125%

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: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	L021893.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	500	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	670	250	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	L021893.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	83	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	83%	45-114%
4165-62-2	Phenol-d5	82%	44-124%

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	L021893.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	86%	50-128%
4165-60-0	Nitrobenzene-d5	83%	41-123%
321-60-8	2-Fluorobiphenyl	82%	46-122%
1718-51-0	Terphenyl-d14	90%	45-135%

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	W020290.D	1	06/15/04	ME	06/11/04	OP10656	SW1067

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	500	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	670	250	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	W020290.D	1	06/15/04	ME	06/11/04	OP10656	SW1067

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	83	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	81%	45-114%
4165-62-2	Phenol-d5	80%	44-124%

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MB	W020290.D	1	06/15/04	ME	06/11/04	OP10656	SW1067

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	78%	50-128%
4165-60-0	Nitrobenzene-d5	81%	41-123%
321-60-8	2-Fluorobiphenyl	79%	46-122%
1718-51-0	Terphenyl-d14	93%	45-135%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-BS	L021892.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	3090	93	43-117
95-57-8	2-Chlorophenol	1670	1450	87	70-102
59-50-7	4-Chloro-3-methyl phenol	1670	1520	91	70-103
120-83-2	2,4-Dichlorophenol	1670	1560	94	70-101
105-67-9	2,4-Dimethylphenol	1670	1520	91	39-100
51-28-5	2,4-Dinitrophenol	3330	2850	86	34-131
534-52-1	4,6-Dinitro-o-cresol	3330	3110	93	55-122
95-48-7	2-Methylphenol	1670	1410	85	66-100
	3&4-Methylphenol	3330	2750	83	68-100
88-75-5	2-Nitrophenol	1670	1550	93	70-102
100-02-7	4-Nitrophenol	3330	2910	87	63-112
87-86-5	Pentachlorophenol	3330	2830	85	58-111
108-95-2	Phenol	1670	1400	84	68-99
95-95-4	2,4,5-Trichlorophenol	1670	1520	91	72-103
88-06-2	2,4,6-Trichlorophenol	1670	1470	88	68-100
83-32-9	Acenaphthene	1670	1530	92	73-100
208-96-8	Acenaphthylene	1670	1460	88	75-111
120-12-7	Anthracene	1670	1540	92	76-106
56-55-3	Benzo(a)anthracene	1670	1600	96	76-105
50-32-8	Benzo(a)pyrene	1670	1620	97	74-116
205-99-2	Benzo(b)fluoranthene	1670	1660	100	73-114
191-24-2	Benzo(g,h,i)perylene	1670	1550	93	67-115
207-08-9	Benzo(k)fluoranthene	1670	1690	101	72-115
101-55-3	4-Bromophenyl phenyl ether	1670	1570	94	76-102
85-68-7	Butyl benzyl phthalate	1670	1620	97	70-111
100-51-6	Benzyl Alcohol	1670	1430	86	69-111
91-58-7	2-Chloronaphthalene	1670	1460	88	73-101
106-47-8	4-Chloroaniline	1670	887	53	18-101
86-74-8	Carbazole	1670	1470	88	74-113
218-01-9	Chrysene	1670	1650	99	76-102
111-91-1	bis(2-Chloroethoxy)methane	1670	1360	82	61-101
111-44-4	bis(2-Chloroethyl)ether	1670	1460	88	70-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1510	91	61-113
7005-72-3	4-Chlorophenyl phenyl ether	1670	1490	89	75-103
95-50-1	1,2-Dichlorobenzene	1670	1410	85	69-101
541-73-1	1,3-Dichlorobenzene	1670	1380	83	67-100

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-BS	L021892.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1370	82	69-100
121-14-2	2,4-Dinitrotoluene	1670	1480	89	74-112
606-20-2	2,6-Dinitrotoluene	1670	1490	89	74-114
91-94-1	3,3'-Dichlorobenzidine	1670	1160	70	30-102
53-70-3	Dibenzo(a,h)anthracene	1670	1570	94	66-116
132-64-9	Dibenzofuran	1670	1450	87	75-101
84-74-2	Di-n-butyl phthalate	1670	1510	91	75-109
117-84-0	Di-n-octyl phthalate	1670	1750	105	64-128
84-66-2	Diethyl phthalate	1670	1490	89	75-109
131-11-3	Dimethyl phthalate	1670	1460	88	76-106
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1570	94	69-115
206-44-0	Fluoranthene	1670	1490	89	76-112
86-73-7	Fluorene	1670	1560	94	75-105
118-74-1	Hexachlorobenzene	1670	1520	91	76-103
87-68-3	Hexachlorobutadiene	1670	1510	91	62-91
77-47-4	Hexachlorocyclopentadiene	1670	1300	78	33-112
67-72-1	Hexachloroethane	1670	1430	86	68-104
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1570	94	67-119
78-59-1	Isophorone	1670	1500	90	74-103
91-57-6	2-Methylnaphthalene	1670	1420	85	71-100
88-74-4	2-Nitroaniline	1670	1530	92	75-109
99-09-2	3-Nitroaniline	1670	1190	71	47-103
100-01-6	4-Nitroaniline	1670	1360	82	60-113
91-20-3	Naphthalene	1670	1490	89	73-100
98-95-3	Nitrobenzene	1670	1510	91	73-101
621-64-7	N-Nitroso-di-n-propylamine	1670	1370	82	69-104
86-30-6	N-Nitrosodiphenylamine	1670	1540	92	80-113
85-01-8	Phenanthrene	1670	1590	95	76-104
129-00-0	Pyrene	1670	1720	103	70-106
120-82-1	1,2,4-Trichlorobenzene	1670	1490	89	72-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	90%	45-114%
4165-62-2	Phenol-d5	89%	44-124%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-BS	L021892.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	94%	50-128%
4165-60-0	Nitrobenzene-d5	89%	41-123%
321-60-8	2-Fluorobiphenyl	85%	46-122%
1718-51-0	Terphenyl-d14	97%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MS	L021899.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
OP10656-MSD	L021900.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
F24649-4	L021898.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	F24649-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		3410	1080	32	926	27	15	19-117/34
95-57-8	2-Chlorophenol	ND		1710	1420	83	1530	90	7	54-104/18
59-50-7	4-Chloro-3-methyl phenol	ND		1710	1440	84	1570	92	9	57-107/17
120-83-2	2,4-Dichlorophenol	ND		1710	1450	85	1620	95	11	49-108/20
105-67-9	2,4-Dimethylphenol	ND		1710	1430	84	1580	93	10	42-94/25
51-28-5	2,4-Dinitrophenol	ND		3410	1060	31	1070	31	1	22-114/22
534-52-1	4,6-Dinitro-o-cresol	ND		3410	1840	54	1980	58	7	35-117/25
95-48-7	2-Methylphenol	ND		1710	1370	80	1470	86	7	54-100/18
	3&4-Methylphenol	ND		3410	2640	77	2880	84	9	55-102/18
88-75-5	2-Nitrophenol	ND		1710	1440	84	1560	91	8	48-108/19
100-02-7	4-Nitrophenol	ND		3410	2810	82	2990	88	6	46-116/15
87-86-5	Pentachlorophenol	ND		3410	2570	75	2690	79	5	45-112/16
108-95-2	Phenol	ND		1710	1400	82	1490	87	6	54-104/17
95-95-4	2,4,5-Trichlorophenol	ND		1710	1500	88	1590	93	6	56-108/23
88-06-2	2,4,6-Trichlorophenol	ND		1710	1450	85	1600	94	10	57-102/14
83-32-9	Acenaphthene	ND		1710	1490	87	1600	94	7	57-108/19
208-96-8	Acenaphthylene	ND		1710	1410	83	1530	90	8	60-120/17
120-12-7	Anthracene	ND		1710	1510	89	1630	96	8	68-105/16
56-55-3	Benzo(a)anthracene	ND		1710	1550	91	1680	99	8	69-104/24
50-32-8	Benzo(a)pyrene	ND		1710	1590	93	1690	99	6	66-114/26
205-99-2	Benzo(b)fluoranthene	ND		1710	1550	91	1680	99	8	64-113/19
191-24-2	Benzo(g,h,i)perylene	ND		1710	1500	88	1620	95	8	44-133/23
207-08-9	Benzo(k)fluoranthene	ND		1710	1620	95	1740	102	7	63-111/23
101-55-3	4-Bromophenyl phenyl ether	ND		1710	1540	90	1640	96	6	67-102/15
85-68-7	Butyl benzyl phthalate	ND		1710	1610	94	1730	101	7	61-113/16
100-51-6	Benzyl Alcohol	ND		1710	1420	83	1540	90	8	57-111/17
91-58-7	2-Chloronaphthalene	ND		1710	1420	83	1520	89	7	60-103/15
106-47-8	4-Chloroaniline	ND		1710	894	52	972	57	8	22-104/27
86-74-8	Carbazole	ND		1710	1420	83	1520	89	7	70-109/21
218-01-9	Chrysene	ND		1710	1580	93	1690	99	7	68-102/25
111-91-1	bis(2-Chloroethoxy)methane	ND		1710	1270	74	1410	83	10	50-100/19
111-44-4	bis(2-Chloroethyl)ether	ND		1710	1390	82	1470	86	6	56-105/20
108-60-1	bis(2-Chloroisopropyl)ether	ND		1710	1420	83	1520	89	7	48-112/18
7005-72-3	4-Chlorophenyl phenyl ether	ND		1710	1420	83	1550	91	9	64-105/13
95-50-1	1,2-Dichlorobenzene	ND		1710	1320	77	1410	83	7	55-99/18
541-73-1	1,3-Dichlorobenzene	ND		1710	1270	74	1350	79	6	53-98/19

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MS	L021899.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
OP10656-MSD	L021900.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
F24649-4	L021898.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Compound	F24649-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		1710	1280	75	1380	81	8	55-99/19
121-14-2	2,4-Dinitrotoluene	ND		1710	1390	82	1480	87	6	66-107/14
606-20-2	2,6-Dinitrotoluene	ND		1710	1400	82	1540	90	10	67-110/13
91-94-1	3,3'-Dichlorobenzidine	ND		1710	968	57	1140	67	16	25-103/24
53-70-3	Dibenzo(a,h)anthracene	ND		1710	1490	87	1620	95	8	48-130/21
132-64-9	Dibenzofuran	ND		1710	1410	83	1540	90	9	65-102/13
84-74-2	Di-n-butyl phthalate	ND		1710	1460	86	1560	91	7	62-114/16
117-84-0	Di-n-octyl phthalate	ND		1710	1870	110	1950	114	4	61-120/18
84-66-2	Diethyl phthalate	ND		1710	1430	84	1530	90	7	67-104/13
131-11-3	Dimethyl phthalate	ND		1710	1400	82	1520	89	8	66-104/13
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1710	1560	91	1690	99	8	62-115/16
206-44-0	Fluoranthene	ND		1710	1440	84	1560	91	8	58-122/22
86-73-7	Fluorene	ND		1710	1510	89	1620	95	7	64-107/21
118-74-1	Hexachlorobenzene	ND		1710	1490	87	1600	94	7	66-103/16
87-68-3	Hexachlorobutadiene	ND		1710	1380	81	1530	90	10	49-90/18
77-47-4	Hexachlorocyclopentadiene	ND		1710	1090	64	1170	69	7	10-99/34
67-72-1	Hexachloroethane	ND		1710	1300	76	1430	84	10	51-103/19
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1710	1510	89	1630	96	8	48-132/23
78-59-1	Isophorone	ND		1710	1410	83	1540	90	9	61-104/17
91-57-6	2-Methylnaphthalene	ND		1710	1340	79	1480	87	10	59-99/21
88-74-4	2-Nitroaniline	ND		1710	1510	89	1620	95	7	65-109/14
99-09-2	3-Nitroaniline	ND		1710	1230	72	1270	74	3	44-98/21
100-01-6	4-Nitroaniline	ND		1710	1290	76	1380	81	7	54-109/19
91-20-3	Naphthalene	ND		1710	1370	80	1510	89	10	59-100/21
98-95-3	Nitrobenzene	ND		1710	1370	80	1520	89	10	59-102/18
621-64-7	N-Nitroso-di-n-propylamine	ND		1710	1340	79	1410	83	5	55-106/19
86-30-6	N-Nitrosodiphenylamine	ND		1710	1540	90	1640	96	6	69-116/16
85-01-8	Phenanthrene	ND		1710	1550	91	1650	97	6	65-105/24
129-00-0	Pyrene	ND		1710	1660	97	1820	107	9	62-107/26
120-82-1	1,2,4-Trichlorobenzene	ND		1710	1380	81	1520	89	10	58-101/17

CAS No.	Surrogate Recoveries	MS	MSD	F24649-4	Limits
367-12-4	2-Fluorophenol	84%	92%	81%	45-114%
4165-62-2	Phenol-d5	83%	90%	80%	44-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10656-MS	L021899.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
OP10656-MSD	L021900.D	1	06/14/04	ME	06/11/04	OP10656	SL1176
F24649-4	L021898.D	1	06/14/04	ME	06/11/04	OP10656	SL1176

The QC reported here applies to the following samples: Method: SW846 8270C

F24535-1

CAS No.	Surrogate Recoveries	MS	MSD	F24649-4	Limits
118-79-6	2,4,6-Tribromophenol	91%	98%	88%	50-128%
4165-60-0	Nitrobenzene-d5	82%	91%	78%	41-123%
321-60-8	2-Fluorobiphenyl	80%	89%	78%	46-122%
1718-51-0	Terphenyl-d14	90%	99%	85%	45-135%

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: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV813-MB	UV013541.D	1	06/07/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	250	100	ug/kg	
100-41-4	Ethylbenzene	ND	250	130	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	750	250	ug/kg	
91-20-3	Naphthalene	ND	500	280	ug/kg	
108-88-3	Toluene	ND	750	250	ug/kg	
	m,p-Xylene	ND	1000	380	ug/kg	
95-47-6	o-Xylene	ND	500	250	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	500	ug/kg	
	C5- C8 Aliphatics	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics	ND	2800	1500	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	105%	70-130%
460-00-4	BFB	104%	70-130%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV813-BS	UV013540.D	1	06/07/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	4000	3720	93	70-130
100-41-4	Ethylbenzene	4000	3640	91	70-130
1634-04-4	Methyl Tert Butyl Ether	4000	3650	91	70-130
91-20-3	Naphthalene	4000	3120	78	70-130
108-88-3	Toluene	4000	3820	96	70-130
	m,p-Xylene	8000	7700	96	70-130
95-47-6	o-Xylene	4000	3740	94	70-130
	C5- C8 Aliphatics (Unadj.)	24000	23200	97	70-130
	C9- C12 Aliphatics (Unadj.)	24000	22300	93	70-130
	C9- C10 Aromatics (Unadj.)	4000	4350	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	107%	70-130%
460-00-4	BFB	105%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F24535-5MS	UV013559.D	1	06/08/04	NJ	n/a	n/a	GUV813
F24535-5MSD	UV013560.D	1	06/08/04	NJ	n/a	n/a	GUV813
F24535-5	UV013558.D	1	06/08/04	NJ	n/a	n/a	GUV813

The QC reported here applies to the following samples: Method: MADEP VPH

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	F24535-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		4530	3790	84	4030	89	6	70-130/50
100-41-4	Ethylbenzene	ND		4530	3650	81	3880	86	6	70-130/50
1634-04-4	Methyl Tert Butyl Ether	ND		4530	4250	94	4560	101	7	70-130/50
91-20-3	Naphthalene	ND		4530	3900	86	4110	91	5	70-130/50
108-88-3	Toluene	ND		4530	3940	87	4190	92	6	70-130/50
	m,p-Xylene	ND		9070	7560	83	8090	89	7	70-130/50
95-47-6	o-Xylene	ND		4530	3740	83	3990	88	6	70-130/50
	C5- C8 Aliphatics (Unadj.)	ND		27200	23400	86	24900	92	6	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		27200	22000	81	23600	87	7	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		4530	3460	76	3790	84	9	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F24535-5	Limits
460-00-4	BFB	100%	98%	96%	70-130%
460-00-4	BFB	97%	96%	95%	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-MB	ZF13695.D	1	06/10/04	SM	06/07/04	OP10612	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	50%	40-140%
580-13-2	2-Bromonaphthalene	96%	40-140%
84-15-1	o-Terphenyl	88%	40-140%
321-60-8	2-Fluorobiphenyl	94%	40-140%

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-MB	ZF13716.D	1	06/14/04	SM	06/07/04	OP10612	GZF638

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	49%	40-140%
580-13-2	2-Bromonaphthalene	94%	40-140%
84-15-1	o-Terphenyl	86%	40-140%
321-60-8	2-Fluorobiphenyl	92%	40-140%

Method Blank Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-MB	ZF13762.D	1	06/16/04	SM	06/07/04	OP10612	GZF639

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	330	130	ug/kg	
208-96-8	Acenaphthylene	ND	330	130	ug/kg	
120-12-7	Anthracene	ND	330	130	ug/kg	
56-55-3	Benzo(a)anthracene	ND	330	130	ug/kg	
50-32-8	Benzo(a)pyrene	ND	330	130	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	330	130	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	330	130	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	330	130	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	330	130	ug/kg	
206-44-0	Fluoranthene	ND	330	130	ug/kg	
86-73-7	Fluorene	ND	330	130	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	330	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	330	130	ug/kg	
91-20-3	Naphthalene	ND	330	130	ug/kg	
85-01-8	Phenanthrene	ND	330	130	ug/kg	
129-00-0	Pyrene	ND	330	130	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C11-C22 Aromatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	47%	40-140%
580-13-2	2-Bromonaphthalene	94%	40-140%
84-15-1	o-Terphenyl	86%	40-140%
321-60-8	2-Fluorobiphenyl	92%	40-140%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-BS	ZF13694.D	1	06/10/04	SM	06/07/04	OP10612	GZF636

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1350	81	40-140
208-96-8	Acenaphthylene	1670	1340	80	40-140
120-12-7	Anthracene	1670	1540	92	40-140
56-55-3	Benzo(a)anthracene	1670	1500	90	40-140
50-32-8	Benzo(a)pyrene	1670	1470	88	40-140
205-99-2	Benzo(b)fluoranthene	1670	1510	91	40-140
191-24-2	Benzo(g,h,i)perylene	1670	1470	88	40-140
207-08-9	Benzo(k)fluoranthene	1670	1490	89	40-140
218-01-9	Chrysene	1670	1530	92	40-140
53-70-3	Dibenzo(a,h)anthracene	1670	1510	91	40-140
206-44-0	Fluoranthene	1670	1500	90	40-140
86-73-7	Fluorene	1670	1400	84	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1490	89	40-140
91-57-6	2-Methylnaphthalene	1670	1350	81	40-140
91-20-3	Naphthalene	1670	1280	77	40-140
85-01-8	Phenanthrene	1670	1480	89	40-140
129-00-0	Pyrene	1670	1950	117	40-140
	C11-C22 Aromatics (Unadj.)	28300	23100	82	40-140
	C9-C18 Aliphatics	10000	12800	128	40-140
	C19-C36 Aliphatics	13300	14000	105	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	52%	40-140%
580-13-2	2-Bromonaphthalene	93%	40-140%
84-15-1	o-Terphenyl	77%	40-140%
321-60-8	2-Fluorobiphenyl	87%	40-140%

Blank Spike Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-BS	ZF13715.D	1	06/14/04	SM	06/07/04	OP10612	GZF638

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1310	79	40-140
208-96-8	Acenaphthylene	1670	1310	79	40-140
120-12-7	Anthracene	1670	1490	89	40-140
56-55-3	Benzo(a)anthracene	1670	1460	88	40-140
50-32-8	Benzo(a)pyrene	1670	1420	85	40-140
205-99-2	Benzo(b)fluoranthene	1670	1480	89	40-140
191-24-2	Benzo(g,h,i)perylene	1670	1330	80	40-140
207-08-9	Benzo(k)fluoranthene	1670	1460	88	40-140
218-01-9	Chrysene	1670	1490	89	40-140
53-70-3	Dibenzo(a,h)anthracene	1670	1390	83	40-140
206-44-0	Fluoranthene	1670	1460	88	40-140
86-73-7	Fluorene	1670	1380	83	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1380	83	40-140
91-57-6	2-Methylnaphthalene	1670	1320	79	40-140
91-20-3	Naphthalene	1670	1250	75	40-140
85-01-8	Phenanthrene	1670	1440	86	40-140
129-00-0	Pyrene	1670	1890	113	40-140
	C11-C22 Aromatics (Unadj.)	28300	23400	83	40-140
	C9-C18 Aliphatics	10000	12400	124	40-140
	C19-C36 Aliphatics	13300	13200	99	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	50%	40-140%
580-13-2	2-Bromonaphthalene	88%	40-140%
84-15-1	o-Terphenyl	74%	40-140%
321-60-8	2-Fluorobiphenyl	85%	40-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-MS	ZF13724.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
OP10612-MSD	ZF13725.D	1	06/14/04	SM	06/07/04	OP10612	GZF638
F24535-1	ZF13723.D	1	06/14/04	SM	06/07/04	OP10612	GZF638

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	F24535-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		1850	1500	81	1470	80	2	40-140/50
208-96-8	Acenaphthylene	ND		1850	1460	79	1490	81	2	40-140/50
120-12-7	Anthracene	ND		1850	1870	101	1660	91	12	40-140/50
56-55-3	Benzo(a)anthracene	ND		1850	2000	108	1680	92	17	40-140/50
50-32-8	Benzo(a)pyrene	ND		1850	2000	108	1650	90	19	40-140/50
205-99-2	Benzo(b)fluoranthene	ND		1850	2040	110	1670	91	20	40-140/50
191-24-2	Benzo(g,h,i)perylene	ND		1850	1750	94	1510	82	15	40-140/50
207-08-9	Benzo(k)fluoranthene	ND		1850	1920	104	1660	91	15	40-140/50
218-01-9	Chrysene	ND		1850	2060	111	1730	94	17	40-140/50
53-70-3	Dibenzo(a,h)anthracene	ND		1850	1800	97	1570	86	14	40-140/50
206-44-0	Fluoranthene	ND		1850	2200	119	1670	91	27	40-140/50
86-73-7	Fluorene	ND		1850	1660	90	1580	86	5	40-140/50
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1850	1850	100	1560	85	17	40-140/50
91-57-6	2-Methylnaphthalene	ND		1850	1390	75	1470	80	6	40-140/50
91-20-3	Naphthalene	ND		1850	1260	68	1370	75	8	40-140/50
85-01-8	Phenanthrene	ND		1850	2040	110	1620	88	23	40-140/50
129-00-0	Pyrene	ND		1850	2580	139	1960	107	27	40-140/50
	C11-C22 Aromatics (Unadj.)	ND		31500	32500	103	26200	84	21	40-140/50
	C9-C18 Aliphatics	ND		11100	12800	115	14000	127	9	40-140/50
	C19-C36 Aliphatics	ND		14800	13400	90	14600	100	9	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F24535-1	Limits
3386-33-2	1-Chlorooctadecane	52%	61%	54%	40-140%
580-13-2	2-Bromonaphthalene	94%	80%	96%	40-140%
84-15-1	o-Terphenyl	87%	79%	83%	40-140%
321-60-8	2-Fluorobiphenyl	90%	89%	98%	40-140%

Duplicate Summary

Job Number: F24535
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT2475

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP10612-DUP	ZF13731.D	1	06/15/04	SM	06/07/04	OP10612	GZF638
F24535-5	ZF13730.D	1	06/15/04	SM	06/07/04	OP10612	GZF638

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F24535-1, F24535-2, F24535-3, F24535-4, F24535-5

CAS No.	Compound	F24535-5 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
83-32-9	Acenaphthene	ND		ND		nc	
208-96-8	Acenaphthylene	ND		ND		nc	
120-12-7	Anthracene	ND		ND		nc	
56-55-3	Benzo(a)anthracene	ND		ND		nc	
50-32-8	Benzo(a)pyrene	ND		ND		nc	
205-99-2	Benzo(b)fluoranthene	ND		ND		nc	
191-24-2	Benzo(g,h,i)perylene	ND		ND		nc	
207-08-9	Benzo(k)fluoranthene	ND		ND		nc	
218-01-9	Chrysene	ND		ND		nc	
53-70-3	Dibenzo(a,h)anthracene	ND		ND		nc	
206-44-0	Fluoranthene	ND		ND		nc	
86-73-7	Fluorene	ND		ND		nc	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ND		nc	
91-57-6	2-Methylnaphthalene	ND		ND		nc	
91-20-3	Naphthalene	ND		ND		nc	
85-01-8	Phenanthrene	ND		ND		nc	
129-00-0	Pyrene	ND		ND		nc	
	C11-C22 Aromatics (Unadj.)	29600		25200		16	
	C9-C18 Aliphatics	37200		30100		21	
	C11-C22 Aromatics	29600		25200		16	
	C19-C36 Aliphatics	22400		20200		10	

CAS No.	Surrogate Recoveries	DUP	F24535-5	Limits
3386-33-2	1-Chlorooctadecane	45%	44%	40-140%
580-13-2	2-Bromonaphthalene	91%	85%	40-140%
84-15-1	o-Terphenyl	79%	83%	40-140%
321-60-8	2-Fluorobiphenyl	87%	83%	40-140%

APPENDIX H

PHOTOGRAPHS of CLOSURE ACTIVITIES



UST TT-2471 Excavation Area



UST TT-2471



UST TT-2471 Grouted in Place



UST TT-2471 Cut



UST TT-2461 Exposed



UST TT-2461 Final Excavation



UST TT-2465 Fuel Line



UST TT-2465 Fuel Lines Grouted