

United States Army
Fort Monmouth, New Jersey

Site/Remedial Investigation Report

***Former Building 485
Main Post-East Area***

July 1999

SITE/REMEDIAL INVESTIGATION REPORT
FORMER BUILDING 485
MAIN POST-EAST AREA

JULY 1999

PREPARED FOR:

**UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703**

PREPARED BY:

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PROJECT NO. 2429-308

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EXECUTIVE SUMMARY

Site/Remedial Investigation and Post-Excavation Soil Sampling

SMC was retained by the U.S. Army DPW to implement a site/remedial investigation adjacent to a former No. 2 fuel oil UST. The UST was associated with former Building 485 at the Main Post-East area of the U.S. Army Fort Monmouth Base. The objective of the site/remedial investigation activities was to remove all potentially impacted soil resulting from the past operation of the former UST. The site/remedial investigation was performed by SMC personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*.

Visibly stained soils and soils exhibiting elevated PID levels (greater than 5 ppm) of VOCs, were excavated. Excavation activities continued until potentially impacted soil had been removed. To confirm PID readings and verify the effectiveness of the soil excavation activities, 8 post-excavation soil samples were collected from within the excavation on March 27, 1997. All samples were analyzed for TPHC and total solids. The post-excavation soil samples collected from the excavation contained concentrations of TPHC below the NJDEP soil cleanup criteria.

Management of Excavated Soils

A total of approximately 145 cubic yards of contaminated soil was excavated from around the former UST location and placed on and covered with tarps. All contaminated soil characterization and disposal was handled directly by the U.S. Army Fort Monmouth DPW.

Site Restoration

Upon receiving analytical results and confirming the effectiveness of the excavation activities completed at the site, the excavation was backfilled to grade with certified clean crushed stone, sand and clean overburden soil removed from the excavation.

Conclusions and Recommendations

All post excavation soil samples collected from the UST excavation at Building 485 contained TPHC concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994).

In response to the observation of potentially contaminated soil near the water table, two (2) groundwater samples were collected at Building 485. On December 19, 1998, and February 5, 1999, Building 485 was sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOC's), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOC's).

All groundwater analytical results were either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

No further action is proposed in regard to the closure and site assessment at Building 485.

1.0 BACKGROUND INFORMATION

1.1 OVERVIEW

SMC Environmental Services Group (SMC) was retained by the United States Army Directorate of Public Works (DPW) to implement a site/remedial investigation adjacent to a former No. 2 fuel oil underground storage tank (UST). The New Jersey Department of Environmental Protection (NJDEP) UST Registration No. 90010-57, was associated with former Building 485 at the Main Post-East area of the U.S. Army Fort Monmouth Base, Fort Monmouth, New Jersey. Refer to the site location map in Figure 1.

This report describes the results of the site/remedial investigation activities completed at the site. The objective of the site/remedial investigation activities was to remove all potentially impacted soil resulting from the past operation of the former UST.

This report outlines background information, the site/remedial investigation activities, results of these activities, and conclusions and recommendations drawn from these results.

1.2 SITE DESCRIPTION

Former Building 485 was located in the Main Post-East area of the Fort Monmouth Army Base. The former UST was located a few feet north of former Building 485 and approximately 35 feet south of Building 280. A site map is provided in Figure 2.

1.3 GEOLOGICAL/HYDROGEOLOGICAL SETTING

The following is a description of the geological/hydrogeological setting of the area surrounding former Building 485. Included is a description of the regional geology of the area surrounding Fort Monmouth, as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thickness for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units", or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (bgs). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth.

Therefore, the direction of shallow groundwater should be determined on a case-by-case basis.

Shallow groundwater is locally influenced within the Main Post area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers, and tributaries)
- topography
- nature of the fill material within the Main Post area
- presence of clay and silt lenses in the natural overburden deposits
- local groundwater recharge areas (i.e., streams, lakes)

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of gravel silt and/or clay.

Former Building 485 was located approximately 500 feet west of Oceanport Creek, the nearest water body. Based on Main Post topography, groundwater flow in the area of former Building 485 is anticipated to be to the east.

1.4 HEALTH AND SAFETY

During all site/remedial investigation activities, hazards at the work site, which may have posed a threat to the Health and Safety of personnel, were minimized. All areas, which posed, or may have been suspected to pose a vapor hazard, were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was safe, as defined by the Occupational Safety & Health Administration (OSHA).

2.0 SITE/REMEDIAL INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site/Remedial Investigation was managed and carried out by SMC personnel. All analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory, an NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual*. Sampling frequency and parameters analyzed complied with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E).

The following Parties participated in Site/Remedial Investigation Activities:

- Subsurface Evaluator: David H. Daniels
Employer: SMC Environmental Services Group
Phone Number: (215) 788-7844
NJDEP Certification No.: 10279
- Project Manager: Charles Appleby
Employer: DPW U.S. Army, Fort Monmouth
Phone Number: (732) 532-6224
NJDEP Certification No.: 2056
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
Contact Person: Daniel K. Wright
Phone Number: (732) 532-4359
NJDEP Company Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

Field screening and visual observations to identify potentially contaminated material was performed by a NJDEP Certified Sub-Surface Evaluator. During the excavation activities, all soil removed was screened with a photoionization detector (PID) to check for the presence of elevated volatile organic concentrations (VOCs).

Soils that displayed elevated PID readings (i.e., above 5 ppm) were stockpiled separate from those soils that did not display elevated PID readings (i.e., less than 5 ppm). The ground surface in the areas used to stockpile contaminated soils was covered with tarps. All stockpiled contaminated soil was covered with tarps at the completion of each day of excavation.

2.3 MANAGEMENT OF EXCAVATED SOILS

A total of approximately 245 cubic yards of material was excavated during the remediation activities. Of this, approximately 100 cubic yards of clean overburden soil (soil displaying PID readings below 5 ppm) was removed and stockpiled separately from the contaminated soil. The clean soil pile was later used as backfill after reviewing the sample results for this stockpile. There was approximately 145 cubic yards of contaminated soil (soil displaying PID readings above 5 ppm) excavated, placed on, and covered with tarps.

All contaminated soil characterization and disposal was handled directly by the U.S. Army Fort Monmouth Directorate of Public Works.

2.4 POST-EXCAVATION SOIL SAMPLING AND RESULTS

The excavation of the impacted soil proceeded laterally in all directions from the former UST location until non-detectable field screening readings (i.e., less than 5 ppm) were obtained with the PID. The excavation extended vertically to a depth of 6 feet below ground surface (bgs). groundwater was encountered at a depth of 4-½ feet bgs.

To confirm the PID readings and verify the effectiveness of soil excavation activities, 8 post-excavation soil samples were collected from within the excavation on March 27, 1997. Of these, 6 soil samples were collected from the excavation sidewalls at a depth of 4 feet bgs. The sidewall samples were designated 485-N, 485-NE, 485-SE, 485-S, 485-SW and 485-NW. The remaining two post-excavation soil samples were collected from the bottom of the excavation at a depth of 6 feet bgs. The bottom samples were designated 485-NB and 485-SB. Sample 485-SS is a duplicate of sample 485-SB. The locations of the 8 post excavation soil samples are shown in Figure 3.

SMC personnel, in accordance with the NJDEP Technical Requirements and the NJDEP Field Sampling Procedures Manual, performed the post-excavation soil sampling activities. A summary of sampling activities, including parameters analyzed, is provided in Table 1. Following soil sampling activities, the samples were chilled and delivered to the U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2. The analytical data package is provided in Appendix A.

All post-excavation soil samples collected from the excavation contained concentrations of TPHC below the NJDEP soil cleanup criteria. All samples reviewed non-detectable TPHC levels.

Upon receiving analytical results and confirming the effectiveness of the excavation activities completed at the site, the excavation was back filled to grade with certified clean crushed stone and sand. A sample was collected from the overburden material and analyzed for TPHC. The clean stockpile soil sample (485-SP) revealed non-detectable TPHC levels; therefore, the soil was used as backfill material. Appendix C provides photographs of the site/remedial investigations.

2.5 GROUNDWATER SAMPLING

On December 19, 1998, and February 5, 1999, Building 485 was sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identified compounds (VOC's), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOC's). Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements For Site Remediation*. Refer to Appendix B for the field sampling documentation.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

SMC was retained by the U.S. Army DPW to implement a site/remedial investigation adjacent to a former No. 2 fuel oil UST. The UST was associated with former Building 485 at the Main Post-East area of the U.S. Army Fort Monmouth Base. The objective of the site/remedial investigation activities was to remove all soil potentially impacted as the result of the past operation of the former UST.

Visibly stained soils and soils exhibiting elevated PID levels (greater than 5 ppm) of VOCs were excavated. Excavation activities continued until potentially impacted soil had been removed. In all, a total of approximately 145 cubic yards of contaminated soil was excavated from around the former UST location. All contaminated soil characterization and disposal was handled directly by the U.S. Army Fort Monmouth DPW.

To confirm the PID readings and verify the effectiveness of the soil excavation activities, 8 post-excavation soil samples were collected from within the excavation on March 27, 1997. All samples were analyzed for TPHC and total solids. The post-excavation soil samples collected from the excavation contained concentrations of TPHC below the NJDEP soil cleanup criteria. All samples revealed non-detectable TPHC levels.

Upon receiving analytical results and confirming the effectiveness of the excavation activities completed at the site, the excavation was backfilled to grade with certified clean crushed stone, sand and clean overburden material.

3.2 GROUNDWATER SAMPLING RESULTS

The sample collected from Building 485 on December 19, 1998, contained naphthalene at 3.12 ug/l. No other compounds were detected.

No compounds were detected in the sample collected from Building 485 on February 5, 1999. Methylene chloride was detected in the trip blank at a concentration of 7.39 ug/l. The methylene chloride concentration exceeds the GWQS on account of laboratory contamination. No other compounds were detected in the trip blank.

A summary of the analytical results and comparison to the NJDEP groundwater cleanup criteria is provided in Table 3. The analytical data package is provided in Appendix B. The full data package, including quality control, is on file at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey.

Groundwater samples collected on December 19, 1998, and February 5, 1999, were either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 485 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soil with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

Based on the analytical results of the groundwater samples collected at Building 485 on December 19, 1998, and February 5, 1999, groundwater quality at Building 485 was either below the detection limit or in compliance with the New Jersey Ground Water Quality Criteria (GWQC).

No further action is proposed in regard to the closure and site assessment at Building 485.

TABLES

TABLE 1

**SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
AREA 485, MAIN POST-EAST AREA
FORT MONMOUTH, NEW JERSEY**

Page 1 of 2

| Sample ID | Date of Collection | Date Analysis Started | Matrix | Sample Type | Analytical Parameters* | Analysis Method |
|-----------|--------------------|-----------------------|--------|-----------------|------------------------|-----------------|
| N | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| NE | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| SE | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| S | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| SW | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| NW | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| NB | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| SB | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| SS | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |
| SP | 3/27/97 | 3/28/97 | Soil | Post-Excavation | TPHC | OQA-QAM-025 |

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 1

**SUMMARY OF SAMPLING ACTIVITIES
BUILDING 485, MAIN POST-EAST AREA
FORT MONMOUTH, NEW JERSEY**

Page 2 of 2

| Sample ID | Date of Collection | Date Analysis Started | Matrix | Sample Type | Analytical Parameters* | Sampling Method** |
|-----------|--------------------|-----------------------|---------|-------------|------------------------|-------------------|
| 4150.01 | 12/19/98 | 12/28/98 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4150.02 | 12/19/98 | 12/28/98 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4152.01 | 12/19/98 | 12/28/98 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4152.02 | 12/19/98 | 12/28/98 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4252.01 | 2/5/99 | 2/10/99 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4252.02 | 2/5/99 | 2/10/99 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4253.01 | 2/5/99 | 2/10/99 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |
| 4253.02 | 2/5/99 | 2/10/99 | Aqueous | Groundwater | VOCs, SVOCs | PPNDP |

Note:

*VOCs: Volatile Organic Compounds plus 15 tentatively identified compounds

*SVOCs: Semivolatile organic compounds plus 15 tentatively identified compounds

**PPNDP: Passively Placed Narrow Diameter Point

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
AREA 485, MAIN POST-EAST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 1

| Sample ID | Sample Laboratory ID | Sample Date | Analysis Date | Analytical Method Used | Method Detection Limit (mg/kg) | Compound of Concern | Result (mg/kg) * | NJDEP Soil Cleanup Criteria ** (mg/kg) | Exceeds Cleanup Criteria |
|-----------|----------------------|-------------|---------------|------------------------|--------------------------------|---------------------|------------------|--|--------------------------|
| N = | 2415.01 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 178 | -- Yes | 84.75 ND | -- 10,000 | -- No |
| NE = | 2415.02 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 178 | -- Yes | 86.97 ND | -- 10,000 | -- No |
| SE = | 2415.03 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 179 | -- Yes | 85.12 ND | -- 10,000 | -- No |
| S = | 2415.04 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 166 | -- Yes | 89.43 ND | -- 10,000 | -- No |
| SW = | 2415.05 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 175 | -- Yes | 80.15 ND | -- 10,000 | -- No |
| NW = | 2415.06 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 172 | -- Yes | 87.25 ND | -- 10,000 | -- No |
| NB = | 2415.07 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 191 | -- Yes | 78.44 ND | -- 10,000 | -- No |
| SB = | 2415.08 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 167 | -- Yes | 88.98 ND | -- 10,000 | -- No |
| SS = | 2415.09 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 171 | -- Yes | 89.17 ND | -- 10,000 | -- No |
| SP = | 2415.10 | 3/27/97 | 3/28/97 | Total Solid TPHC | -- 171 | -- Yes | 87.64 ND | -- 10,000 | -- No |

Note:

* Total Solid results are expressed as a percentage.

** NJDEP Residential Direct Contact soil cleanup criteria for total organics

-- Not detected above stated sample quantitation limit

TPHC Total Petroleum Hydrocarbons

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4150.01(Trip Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4150.01(Trip Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|

| | | | | | | |
|------------|---------------------------|------|--------------|----|------|----|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethylene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4150.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL ($\mu\text{g/L}$) | RESULTS | QUALIFIER | REGULATORY LEVEL($\mu\text{g/L}$) | EXCEEDS CRITERIA |
|------------|---------------------------|----------------------------|--------------|-----------|--|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4150.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|

| | | | | | | |
|------------|---------------------------|------|--------------|----|------|----|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4152.01(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4152.01(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4150.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|----------|-----------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 110-86-1 | Pyridine | 2.52 | Not Detected | -- | nle | no |
| 62-75-9 | N-nitroso-dimethylamine | 2.64 | Not Detected | -- | 20 | no |
| 62-53-3 | Aniline | 2.90 | Not Detected | -- | nle | no |
| 111-44-4 | bis(2-Chloroethyl)ether | 2.45 | Not Detected | -- | 10 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 2.65 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | Not Detected | -- | 75 | no |
| 100-51-6 | Benzyl alcohol | 2.09 | Not Detected | -- | nle | no |
| 95-50-1 | 1,2-Dichlorobenzene | 2.44 | Not Detected | -- | 600 | no |
| 108-60-1 | bis(2-chloroisopropyl)ether | 2.96 | Not Detected | -- | 300 | no |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.22 | Not Detected | -- | 20 | no |
| 67-72-1 | Hexachloroethane | 2.59 | Not Detected | -- | 10 | no |
| 98-95-3 | Nitrobenzene | 2.45 | Not Detected | -- | 10 | no |
| 78-59-1 | Isophorone | 2.31 | Not Detected | -- | 100 | no |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2.54 | Not Detected | -- | nle | no |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.58 | Not Detected | -- | 9 | no |
| 91-20-3 | Naphthalene | 3.03 | Not Detected | -- | nle | no |
| 106-47-8 | 4-Chloroaniline | 2.55 | Not Detected | -- | nle | no |
| 87-68-3 | Hexachlorobutadiene | 0.64 | Not Detected | -- | 1 | no |
| 91-57-6 | 2-Methylnaphthalene | 2.49 | Not Detected | -- | nle | no |
| 77-47-4 | Hexachlorocyclopentadiene | 1.59 | Not Detected | -- | 50 | no |
| 91-58-7 | 2-Chloronaphthalene | 2.15 | Not Detected | -- | nle | no |
| 88-74-4 | 2-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 131-11-3 | Dimethylphthalate | 2.74 | Not Detected | -- | 7000 | no |
| 208-96-8 | Acenaphthylene | 2.35 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

| Lab Name: | <u>FMETL</u> | NJDEP # | <u>13461</u> | Matrix: (soil/water) <u>WATER</u> | | |
|---------------|----------------------------|---------------|--------------|--|---------------------------|---------------------|
| Date Sampled: | <u>12/19/98</u> | Location: | <u>485</u> | Lab Sample ID: <u>4150.02(Field Blank)</u> | | |
| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
| 606-20-2 | 2,6-Dinitrotoluene | 1.54 | Not Detected | -- | nle | no |
| 99-09-2 | 3-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 83-32-9 | Acenaphthene | 1.98 | Not Detected | -- | 400 | no |
| 132-64-9 | Dibenzofuran | 2.13 | Not Detected | -- | nle | no |
| 121-14-2 | 2,4-Dinitrotoluene | 1.22 | Not Detected | -- | 10 | no |
| 84-66-2 | Diethylphthalate | 1.68 | Not Detected | -- | 5000 | no |
| 86-73-7 | Fluorene | 1.93 | Not Detected | -- | 300 | no |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.53 | Not Detected | -- | nle | no |
| 100-01-6 | 4-Nitroaniline | 2.70 | Not Detected | -- | nle | no |
| 86-30-6 | n-Nitrosodiphenylamine | 1.73 | Not Detected | -- | 20 | no |
| 103-33-3 | Azobenzene | 1.92 | Not Detected | -- | nle | no |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.54 | Not Detected | -- | nle | no |
| 118-74-1 | Hexachlorobenzene | 1.88 | Not Detected | -- | 10 | no |
| 85-01-8 | Phenanthrene | 1.67 | Not Detected | -- | nle | no |
| 120-12-7 | Anthracene | 1.79 | Not Detected | -- | 2000 | no |
| 84-74-2 | Di-n-butylphthalate | 1.83 | Not Detected | -- | 900 | no |
| 206-44-0 | Fluoranthene | 1.85 | Not Detected | -- | 300 | no |
| 92-87-5 | Benzidine | 4.11 | Not Detected | -- | 50 | no |
| 129-00-0 | Pyrene | 1.02 | Not Detected | -- | 200 | no |
| 85-68-7 | Butylbenzylphthalate | 1.15 | Not Detected | -- | 100 | no |
| 56-55-3 | Benzo[a]anthracene | 1.57 | Not Detected | -- | 10 | no |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.28 | Not Detected | -- | 60 | no |
| 218-01-9 | Chrysene | 2.32 | Not Detected | -- | 20 | no |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.29 | Not Detected | -- | 30 | no |
| 117-84-0 | Di-n-octylphthalate | 1.30 | Not Detected | -- | 100 | no |
| 205-99-2 | Benzo[b]fluoranthene | 1.31 | Not Detected | -- | 10 | no |
| 207-08-9 | Benzo[k]fluoranthene | 1.57 | Not Detected | -- | 2 | no |
| 50-32-8 | Benzo[a]pyrene | 1.36 | Not Detected | -- | 20 | no |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1.22 | Not Detected | -- | 20 | no |
| 53-70-3 | Dibenz[a,h]anthracene | 3.12 | Not Detected | -- | 20 | no |
| 191-24-2 | Benzo[g,h,i]perylene | 1.13 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 12/19/98 Location: 485 Lab Sample ID: 4152.02(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (<u>ug/L</u>) | RESULTS | QUALIFIER | REGULATORY LEVEL(<u>ug/L</u>) | EXCEEDS CRITERIA |
|----------|-----------------------------|------------------------|--------------|-----------|------------------------------------|---------------------|
| 110-86-1 | Pyridine | 2.52 | Not Detected | -- | nle | no |
| 62-75-9 | N-nitroso-dimethylamine | 2.64 | Not Detected | -- | 20 | no |
| 62-53-3 | Aniline | 2.90 | Not Detected | -- | nle | no |
| 111-44-4 | bis(2-Chloroethyl)ether | 2.45 | Not Detected | -- | 10 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 2.65 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | Not Detected | -- | 75 | no |
| 100-51-6 | Benzyl alcohol | 2.09 | Not Detected | -- | nle | no |
| 95-50-1 | 1,2-Dichlorobenzene | 2.44 | Not Detected | -- | 600 | no |
| 108-60-1 | bis(2-chloroisopropyl)ether | 2.96 | Not Detected | -- | 300 | no |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.22 | Not Detected | -- | 20 | no |
| 67-72-1 | Hexachloroethane | 2.59 | Not Detected | -- | 10 | no |
| 98-95-3 | Nitrobenzene | 2.45 | Not Detected | -- | 10 | no |
| 78-59-1 | Isophorone | 2.31 | Not Detected | -- | 100 | no |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2.54 | Not Detected | -- | nle | no |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.58 | Not Detected | -- | 9 | no |
| 91-20-3 | Naphthalene | 3.03 | Not Detected | -- | nle | no |
| 106-47-8 | 4-Chloroaniline | 2.55 | Not Detected | -- | nle | no |
| 87-68-3 | Hexachlorobutadiene | 0.64 | Not Detected | -- | 1 | no |
| 91-57-6 | 2-Methylnaphthalene | 2.49 | Not Detected | -- | nle | no |
| 77-47-4 | Hexachlorocyclopentadiene | 1.59 | Not Detected | -- | 50 | no |
| 91-58-7 | 2-Chloronaphthalene | 2.15 | Not Detected | -- | nle | no |
| 88-74-4 | 2-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 131-11-3 | Dimethylphthalate | 2.74 | Not Detected | -- | 7000 | no |
| 208-96-8 | Acenaphthylene | 2.35 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

| Lab Name: | <u>FMETL</u> | NJDEP # | <u>13461</u> | Matrix: (soil/water) <u>WATER</u> | | |
|---------------|----------------------------|---------------|--------------|---|---------------------------|---------------------|
| Date Sampled: | <u>12/19/98</u> | Location: | <u>485</u> | Lab Sample ID: <u>4152.02(Bldg 485)</u> | | |
| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
| 606-20-2 | 2,6-Dinitrotoluene | 1.54 | Not Detected | -- | nle | no |
| 99-09-2 | 3-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 83-32-9 | Acenaphthene | 1.98 | Not Detected | -- | 400 | no |
| 132-64-9 | Dibenzofuran | 2.13 | Not Detected | -- | nle | no |
| 121-14-2 | 2,4-Dinitrotoluene | 1.22 | Not Detected | -- | 10 | no |
| 84-66-2 | Diethylphthalate | 1.68 | Not Detected | -- | 5000 | no |
| 86-73-7 | Fluorene | 1.93 | Not Detected | -- | 300 | no |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.53 | Not Detected | -- | nle | no |
| 100-01-6 | 4-Nitroaniline | 2.70 | Not Detected | -- | nle | no |
| 86-30-6 | n-Nitrosodiphenylamine | 1.73 | Not Detected | -- | 20 | no |
| 103-33-3 | Azobenzene | 1.92 | Not Detected | -- | nle | no |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.54 | Not Detected | -- | nle | no |
| 118-74-1 | Hexachlorobenzene | 1.88 | Not Detected | -- | 10 | no |
| 85-01-8 | Phenanthrene | 1.67 | 3.12 ug/l | -- | nle | no |
| 120-12-7 | Anthracene | 1.79 | Not Detected | -- | 2000 | no |
| 84-74-2 | Di-n-butylphthalate | 1.83 | Not Detected | -- | 900 | no |
| 206-44-0 | Fluoranthene | 1.85 | Not Detected | -- | 300 | no |
| 92-87-5 | Benzidine | 4.11 | Not Detected | -- | 50 | no |
| 129-00-0 | Pyrene | 1.02 | Not Detected | -- | 200 | no |
| 85-68-7 | Butylbenzylphthalate | 1.15 | Not Detected | -- | 100 | no |
| 56-55-3 | Benzo[a]anthracene | 1.57 | Not Detected | -- | 10 | no |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.28 | Not Detected | -- | 60 | no |
| 218-01-9 | Chrysene | 2.32 | Not Detected | -- | 20 | no |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.29 | Not Detected | -- | 30 | no |
| 117-84-0 | Di-n-octylphthalate | 1.30 | Not Detected | -- | 100 | no |
| 205-99-2 | Benzo[b]fluoranthene | 1.31 | Not Detected | -- | 10 | no |
| 207-08-9 | Benzo[k]fluoranthene | 1.57 | Not Detected | -- | 2 | no |
| 50-32-8 | Benzo[a]pyrene | 1.36 | Not Detected | -- | 20 | no |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1.22 | Not Detected | -- | 20 | no |
| 53-70-3 | Dibenz[a,h]anthracene | 3.12 | Not Detected | -- | 20 | no |
| 191-24-2 | Benzo[g,h,i]perylene | 1.13 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4252.01(Trip Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | * Methylene Chloride | 0.24 | 7.39 ug/l | -- | 2 | yes |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Note:

* Compound exceeds criteria due to laboratory contamination

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4252.01(Trip Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4252.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4252.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|
|---------|---------------|---------------|---------|-----------|---------------------------|---------------------|

| | | | | | | |
|------------|---------------------------|------|--------------|----|------|----|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.01(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER

Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.01(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.02(Dup 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 107028 | Acrolein | 1.85 | Not Detected | -- | 50 | no |
| 107131 | Acrylonitrile | 2.78 | Not Detected | -- | 50 | no |
| 75650 | tert-Butyl alcohol | 8.52 | Not Detected | -- | nle | no |
| 1634044 | Methyl-tert-Butyl ether | 0.16 | Not Detected | -- | nle | no |
| 108203 | Di-isopropyl ether | 0.25 | Not Detected | -- | nle | no |
| | Dichlorodifluoromethane | 1.68 | Not Detected | -- | nle | no |
| 74-87-3 | Chloromethane | 1.16 | Not Detected | -- | 30 | no |
| 75-01-4 | Vinyl Chloride | 1.06 | Not Detected | -- | 5 | no |
| 74-83-9 | Bromomethane | 1.10 | Not Detected | -- | 10 | no |
| 75-00-3 | Chloroethane | 1.01 | Not Detected | -- | nle | no |
| 75-69-4 | Trichlorofluoromethane | 0.50 | Not Detected | -- | nle | no |
| 75-35-4 | 1, 1-Dichloroethene | 0.24 | Not Detected | -- | 2 | no |
| 67-64-1 | Acetone | 1.36 | Not Detected | -- | 700 | no |
| 75-15-0 | Carbon Disulfide | 0.46 | Not Detected | -- | nle | no |
| 75-09-2 | Methylene Chloride | 0.24 | Not Detected | -- | 2 | no |
| 156-60-5 | trans-1,2-Dichloroethene | 0.16 | Not Detected | -- | 100 | no |
| 75-35-3 | 1,1-Dichloroethane | 0.12 | Not Detected | -- | 70 | no |
| 108-05-4 | Vinyl Acetate | 0.78 | Not Detected | -- | nle | no |
| 78-93-3 | 2-Butanone | 0.62 | Not Detected | -- | 300 | no |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | Not Detected | -- | 10 | no |
| 67-66-3 | Chloroform | 0.30 | Not Detected | -- | 6 | no |
| 75-55-6 | 1,1,1-Trichloroethane | 0.23 | Not Detected | -- | 30 | no |
| 56-23-5 | Carbon Tetrachloride | 0.47 | Not Detected | -- | 2 | no |
| 71-43-2 | Benzene | 0.23 | Not Detected | -- | 1 | no |
| 107-06-2 | 1,2-Dichloroethane | 0.18 | Not Detected | -- | 2 | no |
| 79-01-6 | Trichloroethene | 0.23 | Not Detected | -- | 1 | no |
| 78-87-5 | 1, 2-Dichloropropane | 0.40 | Not Detected | -- | 1 | no |
| 75-27-4 | Bromodichloromethane | 0.55 | Not Detected | -- | 1 | no |
| 110-75-8 | 2-Chloroethyl vinyl ether | 0.65 | Not Detected | -- | nle | no |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.69 | Not Detected | -- | nle | no |

Table 3
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.02(Dup 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|------------|---------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 108-10-1 | 4-Methyl-2-Pentanone | 0.59 | Not Detected | -- | 400 | no |
| 108-88-3 | Toluene | 0.37 | Not Detected | -- | 1000 | no |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.87 | Not Detected | -- | nle | no |
| 79-00-5 | 1,1,2-Trichloroethane | 0.48 | Not Detected | -- | 3 | no |
| 127-18-4 | Tetrachloroethene | 0.32 | Not Detected | -- | 1 | no |
| 591-78-6 | 2-Hexanone | 0.71 | Not Detected | -- | nle | no |
| 126-48-1 | Dibromochloromethane | 0.86 | Not Detected | -- | 10 | no |
| 108-90-7 | Chlorobenzene | 0.39 | Not Detected | -- | 4 | no |
| 100-41-4 | Ethylbenzene | 0.65 | Not Detected | -- | 700 | no |
| 1330-20-7 | m+p-Xylenes | 1.14 | Not Detected | -- | nle | no |
| 1330-20-7 | o-Xylene | 0.62 | Not Detected | -- | nle | no |
| 100-42-5 | Styrene | 0.56 | Not Detected | -- | 100 | no |
| 75-25-2 | Bromoform | 0.70 | Not Detected | -- | 4 | no |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.47 | Not Detected | -- | 2 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 0.55 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 0.57 | Not Detected | -- | 75 | no |
| 95-50-1 | 1,2-Dichlorobenzene | 0.64 | Not Detected | -- | 600 | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4252.02(Field Blank)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|----------|-----------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 110-86-1 | Pyridine | 2.52 | Not Detected | -- | nle | no |
| 62-75-9 | N-nitroso-dimethylamine | 2.64 | Not Detected | -- | 20 | no |
| 62-53-3 | Aniline | 2.90 | Not Detected | -- | nle | no |
| 111-44-4 | bis(2-Chloroethyl)ether | 2.45 | Not Detected | -- | 10 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 2.65 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | Not Detected | -- | 75 | no |
| 100-51-6 | Benzyl alcohol | 2.09 | Not Detected | -- | nle | no |
| 95-50-1 | 1,2-Dichlorobenzene | 2.44 | Not Detected | -- | 600 | no |
| 108-60-1 | bis(2-chloroisopropyl)ether | 2.96 | Not Detected | -- | 300 | no |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.22 | Not Detected | -- | 20 | no |
| 67-72-1 | Hexachloroethane | 2.59 | Not Detected | -- | 10 | no |
| 98-95-3 | Nitrobenzene | 2.45 | Not Detected | -- | 10 | no |
| 78-59-1 | Isophorone | 2.31 | Not Detected | -- | 100 | no |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2.54 | Not Detected | -- | nle | no |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.58 | Not Detected | -- | 9 | no |
| 91-20-3 | Naphthalene | 3.03 | Not Detected | -- | nle | no |
| 106-47-8 | 4-Chloroaniline | 2.55 | Not Detected | -- | nle | no |
| 87-68-3 | Hexachlorobutadiene | 0.64 | Not Detected | -- | 1 | no |
| 91-57-6 | 2-Methylnaphthalene | 2.49 | Not Detected | -- | nle | no |
| 77-47-4 | Hexachlorocyclopentadiene | 1.59 | Not Detected | -- | 50 | no |
| 91-58-7 | 2-Chloronaphthalene | 2.15 | Not Detected | -- | nle | no |
| 88-74-4 | 2-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 131-11-3 | Dimethylphthalate | 2.74 | Not Detected | -- | 7000 | no |
| 208-96-8 | Acenaphthylene | 2.35 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

| Lab Name: | <u>FMETL</u> | NJDEP # | <u>13461</u> | Matrix: (soil/water) <u>WATER</u> | | |
|---------------|----------------------------|---------------|--------------|--|---------------------------|---------------------|
| Date Sampled: | <u>2/5/99</u> | Location: | <u>485</u> | Lab Sample ID: <u>4252.02(Field Blank)</u> | | |
| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
| 606-20-2 | 2,6-Dinitrotoluene | 1.54 | Not Detected | -- | nle | no |
| 99-09-2 | 3-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 83-32-9 | Acenaphthene | 1.98 | Not Detected | -- | 400 | no |
| 132-64-9 | Dibenzofuran | 2.13 | Not Detected | -- | nle | no |
| 121-14-2 | 2,4-Dinitrotoluene | 1.22 | Not Detected | -- | 10 | no |
| 84-66-2 | Diethylphthalate | 1.68 | Not Detected | -- | 5000 | no |
| 86-73-7 | Fluorene | 1.93 | Not Detected | -- | 300 | no |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.53 | Not Detected | -- | nle | no |
| 100-01-6 | 4-Nitroaniline | 2.70 | Not Detected | -- | nle | no |
| 86-30-6 | n-Nitrosodiphenylamine | 1.73 | Not Detected | -- | 20 | no |
| 103-33-3 | Azobenzene | 1.92 | Not Detected | -- | nle | no |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.54 | Not Detected | -- | nle | no |
| 118-74-1 | Hexachlorobenzene | 1.88 | Not Detected | -- | 10 | no |
| 85-01-8 | Phenanthrene | 1.67 | Not Detected | -- | nle | no |
| 120-12-7 | Anthracene | 1.79 | Not Detected | -- | 2000 | no |
| 84-74-2 | Di-n-butylphthalate | 1.83 | Not Detected | -- | 900 | no |
| 206-44-0 | Fluoranthene | 1.85 | Not Detected | -- | 300 | no |
| 92-87-5 | Benzidine | 4.11 | Not Detected | -- | 50 | no |
| 129-00-0 | Pyrene | 1.02 | Not Detected | -- | 200 | no |
| 85-68-7 | Butylbenzylphthalate | 1.15 | Not Detected | -- | 100 | no |
| 56-55-3 | Benzo[a]anthracene | 1.57 | Not Detected | -- | 10 | no |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.28 | Not Detected | -- | 60 | no |
| 218-01-9 | Chrysene | 2.32 | Not Detected | -- | 20 | no |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.29 | Not Detected | -- | 30 | no |
| 117-84-0 | Di-n-octylphthalate | 1.30 | Not Detected | -- | 100 | no |
| 205-99-2 | Benzo[b]fluoranthene | 1.31 | Not Detected | -- | 10 | no |
| 207-08-9 | Benzo[k]fluoranthene | 1.57 | Not Detected | -- | 2 | no |
| 50-32-8 | Benzo[a]pyrene | 1.36 | Not Detected | -- | 20 | no |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1.22 | Not Detected | -- | 20 | no |
| 53-70-3 | Dibenz[a,h]anthracene | 3.12 | Not Detected | -- | 20 | no |
| 191-24-2 | Benzo[g,h,i]perylene | 1.13 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.01(Bldg 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|----------|-----------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 110-86-1 | Pyridine | 2.52 | Not Detected | -- | nle | no |
| 62-75-9 | N-nitroso-dimethylamine | 2.64 | Not Detected | -- | 20 | no |
| 62-53-3 | Aniline | 2.90 | Not Detected | -- | nle | no |
| 111-44-4 | bis(2-Chloroethyl)ether | 2.45 | Not Detected | -- | 10 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 2.65 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | Not Detected | -- | 75 | no |
| 100-51-6 | Benzyl alcohol | 2.09 | Not Detected | -- | nle | no |
| 95-50-1 | 1,2-Dichlorobenzene | 2.44 | Not Detected | -- | 600 | no |
| 108-60-1 | bis(2-chloroisopropyl)ether | 2.96 | Not Detected | -- | 300 | no |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.22 | Not Detected | -- | 20 | no |
| 67-72-1 | Hexachloroethane | 2.59 | Not Detected | -- | 10 | no |
| 98-95-3 | Nitrobenzene | 2.45 | Not Detected | -- | 10 | no |
| 78-59-1 | Isophorone | 2.31 | Not Detected | -- | 100 | no |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2.54 | Not Detected | -- | nle | no |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.58 | Not Detected | -- | 9 | no |
| 91-20-3 | Naphthalene | 3.03 | Not Detected | -- | nle | no |
| 106-47-8 | 4-Chloroaniline | 2.55 | Not Detected | -- | nle | no |
| 87-68-3 | Hexachlorobutadiene | 0.64 | Not Detected | -- | 1 | no |
| 91-57-6 | 2-Methylnaphthalene | 2.49 | Not Detected | -- | nle | no |
| 77-47-4 | Hexachlorocyclopentadiene | 1.59 | Not Detected | -- | 50 | no |
| 91-58-7 | 2-Chloronaphthalene | 2.15 | Not Detected | -- | nle | no |
| 88-74-4 | 2-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 131-11-3 | Dimethylphthalate | 2.74 | Not Detected | -- | 7000 | no |
| 208-96-8 | Acenaphthylene | 2.35 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

| Lab Name: | <u>FMETL</u> | NJDEP # | <u>13461</u> | Matrix: (soil/water) <u>WATER</u> | | |
|---------------|----------------------------|---------------|--------------|-----------------------------------|---------------------------|---------------------|
| Date Sampled: | <u>2/5/99</u> | Location: | <u>485</u> | Lab Sample ID: | <u>4253.01(Bldg 485)</u> | |
| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
| 606-20-2 | 2,6-Dinitrotoluene | 1.54 | Not Detected | -- | nle | no |
| 99-09-2 | 3-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 83-32-9 | Acenaphthene | 1.98 | Not Detected | -- | 400 | no |
| 132-64-9 | Dibenzofuran | 2.13 | Not Detected | -- | nle | no |
| 121-14-2 | 2,4-Dinitrotoluene | 1.22 | Not Detected | -- | 10 | no |
| 84-66-2 | Diethylphthalate | 1.68 | Not Detected | -- | 5000 | no |
| 86-73-7 | Fluorene | 1.93 | Not Detected | -- | 300 | no |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.53 | Not Detected | -- | nle | no |
| 100-01-6 | 4-Nitroaniline | 2.70 | Not Detected | -- | nle | no |
| 86-30-6 | n-Nitrosodiphenylamine | 1.73 | Not Detected | -- | 20 | no |
| 103-33-3 | Azobenzene | 1.92 | Not Detected | -- | nle | no |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.54 | Not Detected | -- | nle | no |
| 118-74-1 | Hexachlorobenzene | 1.88 | Not Detected | -- | 10 | no |
| 85-01-8 | Phenanthrene | 1.67 | Not Detected | -- | nle | no |
| 120-12-7 | Anthracene | 1.79 | Not Detected | -- | 2000 | no |
| 84-74-2 | Di-n-butylphthalate | 1.83 | Not Detected | -- | 900 | no |
| 206-44-0 | Fluoranthene | 1.85 | Not Detected | -- | 300 | no |
| 92-87-5 | Benzidine | 4.11 | Not Detected | -- | 50 | no |
| 129-00-0 | Pyrene | 1.02 | Not Detected | -- | 200 | no |
| 85-68-7 | Butylbenzylphthalate | 1.15 | Not Detected | -- | 100 | no |
| 56-55-3 | Benzo[a]anthracene | 1.57 | Not Detected | -- | 10 | no |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.28 | Not Detected | -- | 60 | no |
| 218-01-9 | Chrysene | 2.32 | Not Detected | -- | 20 | no |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.29 | Not Detected | -- | 30 | no |
| 117-84-0 | Di-n-octylphthalate | 1.30 | Not Detected | -- | 100 | no |
| 205-99-2 | Benzo[b]fluoranthene | 1.31 | Not Detected | -- | 10 | no |
| 207-08-9 | Benzo[k]fluoranthene | 1.57 | Not Detected | -- | 2 | no |
| 50-32-8 | Benzo[a]pyrene | 1.36 | Not Detected | -- | 20 | no |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1.22 | Not Detected | -- | 20 | no |
| 53-70-3 | Dibenz[a,h]anthracene | 3.12 | Not Detected | -- | 20 | no |
| 191-24-2 | Benzo[g,h,i]perylene | 1.13 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

Lab Name: FMETL NJDEP # 13461 Matrix: (soil/water) WATER
 Date Sampled: 2/5/99 Location: 485 Lab Sample ID: 4253.02(Dup 485)

| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
|----------|-----------------------------|---------------|--------------|-----------|---------------------------|---------------------|
| 110-86-1 | Pyridine | 2.52 | Not Detected | -- | nle | no |
| 62-75-9 | N-nitroso-dimethylamine | 2.64 | Not Detected | -- | 20 | no |
| 62-53-3 | Aniline | 2.90 | Not Detected | -- | nle | no |
| 111-44-4 | bis(2-Chloroethyl)ether | 2.45 | Not Detected | -- | 10 | no |
| 541-73-1 | 1,3-Dichlorobenzene | 2.65 | Not Detected | -- | 600 | no |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | Not Detected | -- | 75 | no |
| 100-51-6 | Benzyl alcohol | 2.09 | Not Detected | -- | nle | no |
| 95-50-1 | 1,2-Dichlorobenzene | 2.44 | Not Detected | -- | 600 | no |
| 108-60-1 | bis(2-chloroisopropyl)ether | 2.96 | Not Detected | -- | 300 | no |
| 621-64-7 | n-Nitroso-di-n-propylamine | 2.22 | Not Detected | -- | 20 | no |
| 67-72-1 | Hexachloroethane | 2.59 | Not Detected | -- | 10 | no |
| 98-95-3 | Nitrobenzene | 2.45 | Not Detected | -- | 10 | no |
| 78-59-1 | Isophorone | 2.31 | Not Detected | -- | 100 | no |
| 111-91-1 | bis(2-Chloroethoxy)methane | 2.54 | Not Detected | -- | nle | no |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.58 | Not Detected | -- | 9 | no |
| 91-20-3 | Naphthalene | 3.03 | Not Detected | -- | nle | no |
| 106-47-8 | 4-Chloroaniline | 2.55 | Not Detected | -- | nle | no |
| 87-68-3 | Hexachlorobutadiene | 0.64 | Not Detected | -- | 1 | no |
| 91-57-6 | 2-Methylnaphthalene | 2.49 | Not Detected | -- | nle | no |
| 77-47-4 | Hexachlorocyclopentadiene | 1.59 | Not Detected | -- | 50 | no |
| 91-58-7 | 2-Chloronaphthalene | 2.15 | Not Detected | -- | nle | no |
| 88-74-4 | 2-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 131-11-3 | Dimethylphthalate | 2.74 | Not Detected | -- | 7000 | no |
| 208-96-8 | Acenaphthylene | 2.35 | Not Detected | -- | nle | no |

Table 3
SEMI-VOLATILE ANALYSIS DATA SHEET

| Lab Name: | <u>FMETL</u> | NJDEP # | <u>13461</u> | Matrix: (soil/water) <u>WATER</u> | | |
|---------------|----------------------------|---------------|--------------|--|---------------------------|---------------------|
| Date Sampled: | <u>2/5/99</u> | Location: | <u>485</u> | Lab Sample ID: <u>4253.02(Dup 485)</u> | | |
| CAS NO. | COMPOUND NAME | MDL (ug/L) | RESULTS | QUALIFIER | REGULATORY LEVEL(ug/L) | EXCEEDS CRITERIA |
| 606-20-2 | 2,6-Dinitrotoluene | 1.54 | Not Detected | -- | nle | no |
| 99-09-2 | 3-Nitroaniline | 1.62 | Not Detected | -- | nle | no |
| 83-32-9 | Acenaphthene | 1.98 | Not Detected | -- | 400 | no |
| 132-64-9 | Dibenzofuran | 2.13 | Not Detected | -- | nle | no |
| 121-14-2 | 2,4-Dinitrotoluene | 1.22 | Not Detected | -- | 10 | no |
| 84-66-2 | Diethylphthalate | 1.68 | Not Detected | -- | 5000 | no |
| 86-73-7 | Fluorene | 1.93 | Not Detected | -- | 300 | no |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1.53 | Not Detected | -- | nle | no |
| 100-01-6 | 4-Nitroaniline | 2.70 | Not Detected | -- | nle | no |
| 86-30-6 | n-Nitrosodiphenylamine | 1.73 | Not Detected | -- | 20 | no |
| 103-33-3 | Azobenzene | 1.92 | Not Detected | -- | nle | no |
| 101-55-3 | 4-Bromophenyl-phenylether | 1.54 | Not Detected | -- | nle | no |
| 118-74-1 | Hexachlorobenzene | 1.88 | Not Detected | -- | 10 | no |
| 85-01-8 | Phenanthrrene | 1.67 | Not Detected | -- | nle | no |
| 120-12-7 | Anthracene | 1.79 | Not Detected | -- | 2000 | no |
| 84-74-2 | Di-n-butylphthalate | 1.83 | Not Detected | -- | 900 | no |
| 206-44-0 | Fluoranthene | 1.85 | Not Detected | -- | 300 | no |
| 92-87-5 | Benzidine | 4.11 | Not Detected | -- | 50 | no |
| 129-00-0 | Pyrene | 1.02 | Not Detected | -- | 200 | no |
| 85-68-7 | Butylbenzylphthalate | 1.15 | Not Detected | -- | 100 | no |
| 56-55-3 | Benzo[a]anthracene | 1.57 | Not Detected | -- | 10 | no |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.28 | Not Detected | -- | 60 | no |
| 218-01-9 | Chrysene | 2.32 | Not Detected | -- | 20 | no |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1.29 | Not Detected | -- | 30 | no |
| 117-84-0 | Di-n-octylphthalate | 1.30 | Not Detected | -- | 100 | no |
| 205-99-2 | Benzo[b]fluoranthene | 1.31 | Not Detected | -- | 10 | no |
| 207-08-9 | Benzo[k]fluoranthene | 1.57 | Not Detected | -- | 2 | no |
| 50-32-8 | Benzo[a]pyrene | 1.36 | Not Detected | -- | 20 | no |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1.22 | Not Detected | -- | 20 | no |
| 53-70-3 | Dibenz[a,h]anthracene | 3.12 | Not Detected | -- | 20 | no |
| 191-24-2 | Benzo[g,h,i]perylene | 1.13 | Not Detected | -- | nle | no |

FIGURES

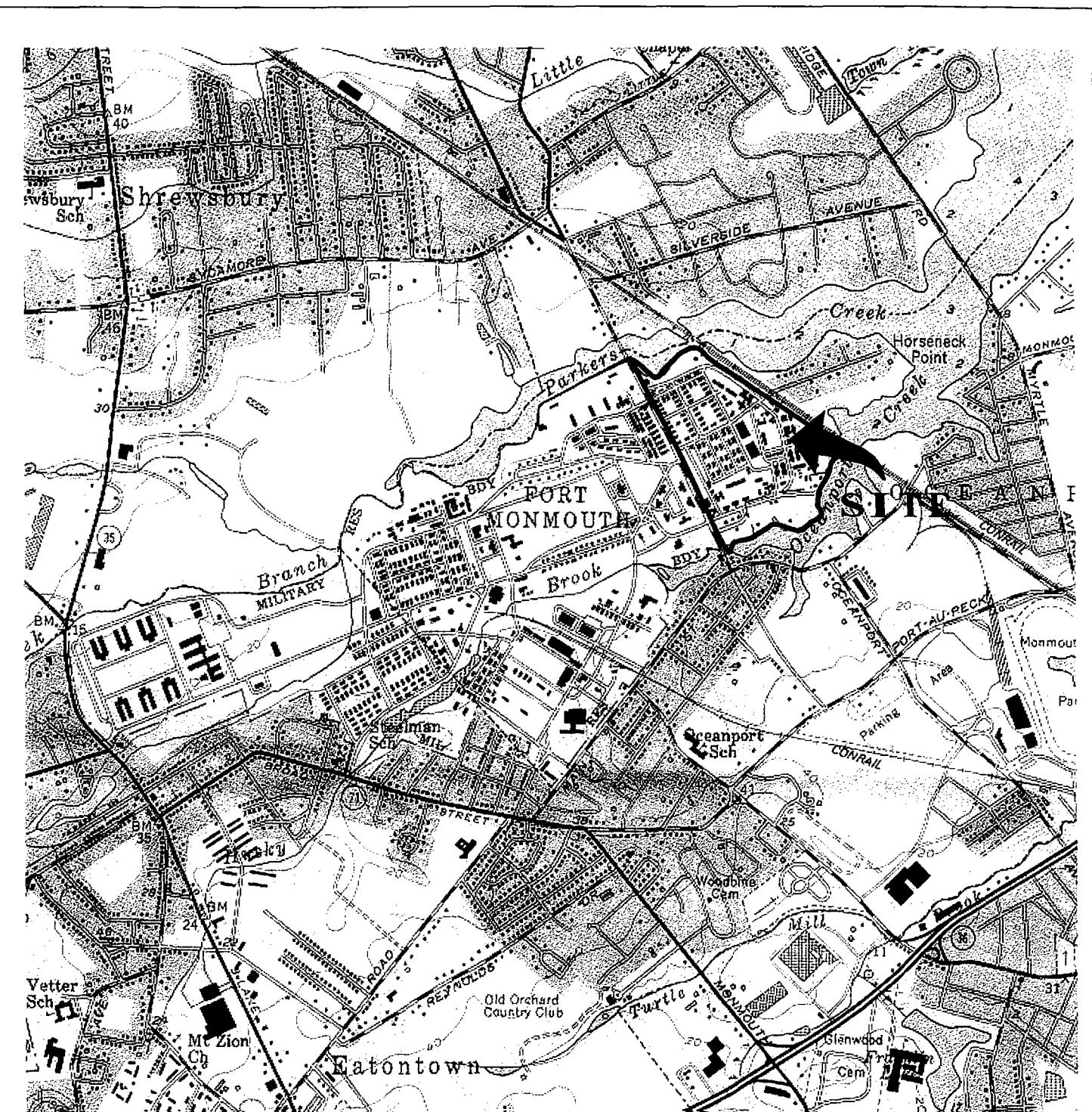


FIGURE 1

SITE LOCATION MAP
Building 485
Main Post-East
Fort Monmouth Army Base
Monmouth County, NJ

 **SMC Environmental
Services Group**
Engineers, Managers, Scientists & Planners
Valley Forge, PA.

LONG BRANCH, N.J.
 40073-C8-TF-024

1954
 PHOTOREVISED 1981
 DMA 6164 I SE-SERIES V822



QUADRANGLE LOCATION

Mapped, edited and published by the Geological Survey

SCALE: 1"= 2000'

DATE: MARCH 1997

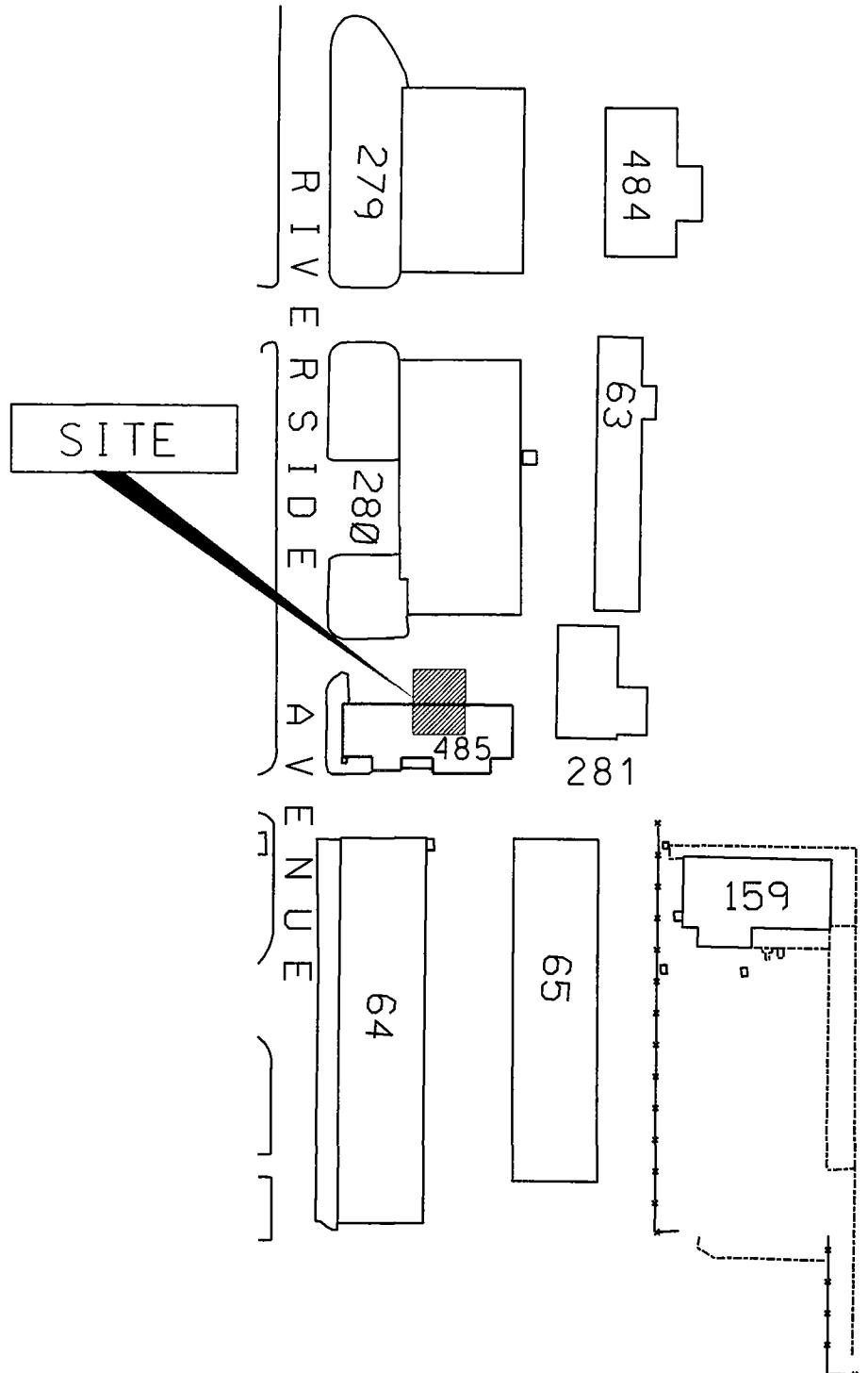


FIGURE 2
SITE MAP
BUILDING 485
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

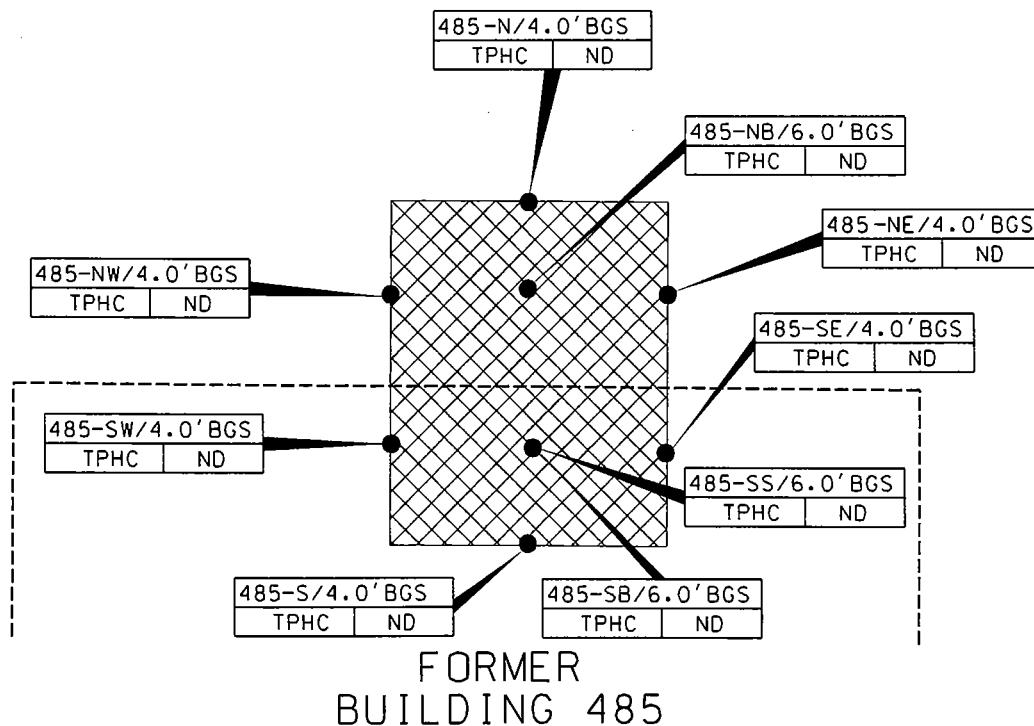


SMC ENVIRONMENTAL
SERVICES GROUP
Engineers, Managers, Scientists & Planners
VALLEY FORGE, PA.

SCALE: 1"=100'

DATE: MARCH 1997

BUILDING 280



LEGEND

- SOIL SAMPLE LOCATION (MARCH 27, 1997)
- ▨ LIMIT OF EXCAVATION (MARCH 27, 1997)

NOTES:

1. ALL RESULTS IN MG/KG.
2. SEE TABLE 2 FOR NJDEP SOIL CLEANUP CRITERIA
3. BGS = BELOW GROUND SURFACE

485 2429 FIG3

FIGURE 3
SOIL SAMPLING LOCATION MAP
BUILDING 485
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

 SMC ENVIRONMENTAL
SERVICES GROUP
Engineers, Managers, Scientists & Planners
VALLEY FORGE, PA.

SCALE: 1" = 20'

DATE: MARCH 1997

APPENDIX A

SOIL ANALYTICAL DATA PACKAGE

**US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461**

REPORT OF ANALYSIS

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Project: Total Petroleum Hydrocarbons
2429
AREA-485

Project # 2415
Date Rec. 03/27/97
Date Comp. 03/31/97
Released by:



Daniel K. Wright
Laboratory Director

Table of Contents

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Method Summary

NJDEP Method OQA-QAM-025-10/97

Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g)(wet weight) of a soil sample is added to a 125 mL acid cleaned, solvent rinsed, capped Erlenmeyer flask. 15g anhydrous sodium sulfate is added to dry sample. Surrogate standard spiking solution is then added to the flask.

Twenty five milliliters(25mL) Methylene Chloride is added to the flask and it is secured on a gyroto ry shaker table. The agitation rate is set to 400rpm and the sample is shaken for 30 minutes. The flask is the removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25mL of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1mL autosampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for petroleum hydrocarbons covering a range of C8-C42 including pristane and phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak.

The final concentration of Total Petroleum Hydrocarbons is calculated using percent solid, sample weight and concentration.

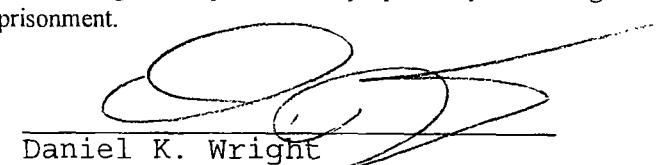
PHC Conformance/Non-conformance Summary Report

| | <u>No</u> | <u>Yes</u> |
|---|-----------|------------|
| 1. Method Detection Limits provided. | — | ✓ |
| 2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank. | ✓ | — |
| 3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range). | — | ✓ |
| 4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range). | ✓ | — |
| 5. IR Spectra submitted for standards, blanks, & samples | — | NA |
| 6. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted. | — | ✓ |
| 7. Analysis holding time met. (If not met, list number of days exceeded for each sample) | — | ✓ |

Additional Comments:

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analysis. I have personally examined the information contained in this report, and to the best of my knowledge, I believe that the submitted information is true, accurate, complete, and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.



Daniel K. Wright
Laboratory Manager



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doin6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Page _____ of _____

| Customer: SMC / David Daniels / () DERA (X) OMA () Other: | | Project No: 2429 | Location: Area 485 | Analysis Parameters | | | | | Comments: | |
|--|-----------------|-----------------------------|--------------------|--|----|-------------------------------|-----------------|------------------------------|-------------------------------|--------------------------|
| Lab Sample I.D. | Sample Location | Date | Time | Sample Type | pH | SO ₄ ²⁻ | Cl ⁻ | NO ₃ ⁻ | | |
| 2415.01 | 485-N | 3-27-97 | 14:50 | Soil | X | X | | | Remarks / Preservation Method | |
| .02 | 485-NE | | 14:55 | | | | | | | |
| .03 | 485-SE | | 15:00 | | | | | | | |
| .04 | 485-S | | 15:05 | | | | | | | |
| .05 | 485-SW | | 15:10 | | | | | | | |
| .06 | 485-NW | | 15:15 | | | | | | | |
| .07 | 485-NB | | 15:20 | | | | | | | |
| .08 | 485-SB | | 15:25 | | | | | | | |
| .09 | 485-SS | | 15:30 | | | | | | | |
| ✓ .10 | 485-SP | ✓ | 15:45 | ✓ | ✓ | ✓ | | | ← Composite | |
| Relinquished by (signature): <i>David H. Daniels</i> | | Date/Time: 3-28-97 10:20 | | Received by (signature): <i>Sarah A. Mihm</i> | | Relinquished by (signature): | | | Date/Time: | Received by (signature): |
| Relinquished by (signature): | | Date/Time: | | Received by (signature): | | Relinquished by (signature): | | | Date/Time: | Received by (signature): |
| Relinquished by (signature): | | Date/Time: | | Received for laboratory by (signature): | | Date/Time: | | Remarks: | | |

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

| | | | |
|-------------------|--|---------------------------|-----------|
| Client : | U.S. Army DPW. SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 07703 | Lab. ID # : | 2415 |
| | | Date Rec'd: | 27-Mar-97 |
| | | Analysis Start: | 28-Mar-97 |
| | | Analysis Complete: | 31-Mar-97 |
| Analysis: | OQA-QAM-025 | UST Reg. #: | |
| Matrix: | Soil | Closure #: | |
| Analyst: | P. Skelton | DICAR #: | |
| Ext. Meth: | Shake | Location #: | Area 485 |

| Sample | Field ID | Dilution Factor | Weight (g) | % Solid | MDL (mg/kg) | TPHC Result (mg/kg) |
|--------------|----------|-----------------|------------|---------|-------------|---------------------|
| 2415.01 | 485-N | 1.00 | 15.55 | 84.75 | 178 | 0.00 |
| 2415.02 | 485-NE | 1.00 | 15.21 | 86.97 | 178 | 0.00 |
| 2415.03 | 485-SE | 1.00 | 15.39 | 85.12 | 179 | 0.00 |
| 2415.04 | 485-S | 1.00 | 15.86 | 89.43 | 166 | 0.00 |
| 2415.05 | 485-SW | 1.00 | 16.80 | 80.15 | 175 | 0.00 |
| 2415.06 | 485-NW | 1.00 | 15.63 | 87.25 | 172 | 0.00 |
| 2415.07 | 485-NB | 1.00 | 15.67 | 78.44 | 191 | 0.00 |
| 2415.08 | 485-SB | 1.00 | 15.78 | 88.98 | 167 | 0.00 |
| 2415.09 | 485-SS | 1.00 | 15.43 | 89.17 | 171 | 0.00 |
| 2415.10 | 485-SP | 1.00 | 15.66 | 87.64 | 171 | 0.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| METHOD BLANK | | 1.00 | 15.00 | 100.00 | 157 | 0.00 |

ND = Not Detected

MDL = Method Detection Limit



Daniel K. Wright
Laboratory Director

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT
AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1. Cover page, Title Page listing Lab Certification #, facility name and address, & date of report submitted
2. Table of Contents submitted
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted
4. Document paginated and legible
5. Chain of Custody submitted
6. Samples submitted to lab within 48 hours of sample collection
7. Methodology Summary submitted
8. Laboratory Chronicle and Holding Time Check submitted
9. Results submitted on a dry weight basis
10. Method Detection Limits submitted
11. Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP

Laboratory Manager or Environmental Consultant's Signature _____
Date 11/27/97



Laboratory Certification #13461

*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP
Methods for further guidance

APPENDIX B

GROUNDWATER ANALYTICAL DATA PACKAGE

**FORT MONMOUTH ENVIRONMENTAL
TESTING LABORATORY**
DIRECTORATE OF PUBLIC WORKS
PHONE: (732)532-6224 FAX: (732)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
NJDEP LABORATORY CERTIFICATION # 13461



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: UST Program

Bldg. 485

| Field Location No. & Location | Laboratory Sample ID# | Matrix | Date and Time Of Collection | Date Received |
|-------------------------------|-----------------------|---------|-----------------------------|---------------|
| Trip Blank | 4150.01 | Aqueous | 19-Dec-98 | 12/21/98 |
| Field Blank | 4150.02 | Aqueous | 19-Dec-98 08:45 | 12/21/98 |
| Bldg. 485 | 4152.01 | Aqueous | 19-Dec-98 11:15 | 12/21/98 |
| Bldg. 485 | 4152.02 | Aqueous | 19-Dec-98 11:30 | 12/21/98 |

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15



2-5-99
Daniel Wright / Date
Laboratory Director

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CHAIN OF CUSTODY

000001



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

| | | | | | | | | | | | | |
|---|-----------------|---|---|---------------------|------------------------------|----------|------------|--------------------------|--|-----------|--|-------------------------------|
| Customer: CA/VEREAR | | Project No: | | Analysis Parameters | | | | | | Comments: | | |
| Phone #: X20224 | | Location: BLDG. 485 | | V O A + | B N + | | | | | | | |
| ()DERA ()OMA ()Other: _____ | | Samplers Name / Company : Marie Laura T.V.S. PWS 07 | | Sample # | | | | | | | | |
| Lab Sample I.D. | Sample Location | Date | Time | Type | bottles | 15 | 15 | | | | | Remarks / Preservation Method |
| 4152. 1 | BLDG. 485 - | 12-19-98 | 1115 | AQ. | 2 | X | | | | | | |
| 4 2 | " - | " | 1130 | " | 1 | X | | | | | | |
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| | | | | | | | | | | | | |
| Relinquished by (signature): <i>Mattison</i> | | Date/Time: 12-24-98 730 | Received by (signature): <i>D. Appleby</i> | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | |
| Relinquished by (signature): | | Date/Time: | Received by (signature): | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | |
| Report Type: <input type="checkbox"/> Full, <input checked="" type="checkbox"/> Reduced, <input type="checkbox"/> Standard, <input type="checkbox"/> Screen / non-certified | | | | | | Remarks: | | | | | | |
| Turnaround time: <input checked="" type="checkbox"/> Standard 4 wks, <input type="checkbox"/> Rush _____ Days, <input type="checkbox"/> ASAP Verbal _____ Hrs. | | | | | | | | | | | | |

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

| Customer: CA/VERSA | | Project No: Location: BLDG. 65 | | | Analysis Parameters | | | | | | Comments: | | |
|---|-----------------|-----------------------------------|--|--------|------------------------------|-------------------|------------|--------------------------|--|--|-----------|-------------------------------|--|
| Phone #: X2 (0202) | | | | | V D A + | B N S 15 | | | | | | | |
| ()DERA ()OMA ()Other: _____ | | | | | | | | | | | | | |
| Samplers Name / Company : Mark Laura | | | | Sample | # | | | | | | | Remarks / Preservation Method | |
| Lab Sample I.D. | Sample Location | Date | Time | Type | bottles | | | | | | | | |
| 4150 . 1 | TRIP BLANK | 12-19-98 | - | AQ. | 2 | X | | | | | | HCL | |
| 2 | FIELD BLANK | " | 0845 | " | 3 | X | X | | | | | HCL/C40C | |
| 3 | BLDG. 65 | " | 0945 | " | 3 | X | X | | | | | | |
| 4 | FIELD DUP. | " | - | " | 3 | X | X | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Relinquished by (signature): <i>Mattison</i> | | Date/Time: 12-19-98 7:30 | Received by (signature): <i>J. Murphy</i> | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | | |
| Relinquished by (signature): | | Date/Time: | Received by (signature): | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | | |
| Report Type: (<input type="checkbox"/>)Full, (<input checked="" type="checkbox"/>)Reduced, (<input type="checkbox"/>)Standard, (<input type="checkbox"/>)Screen / non-certified | | | | | | Remarks: | | | | | | | |
| Turnaround time: (<input checked="" type="checkbox"/>)Standard 4 wks, (<input type="checkbox"/>)Rush _____ Days, (<input type="checkbox"/>)ASAP Verbal _____ Hrs. | | | | | | | | | | | | | |

FIELD DOCUMENTATION

000004

Post Remedial Groundwater Sampling at Former Underground Storage Tank Site [# 2 fuel oil]

FOR BLDG. # 485

1. Methods

- A. This sample was extracted from this site from a monitor well that was buried and not sampled for some time. The well location was app. 240 degrees s.w. of the gps location. [app. 11 feet away]

2. Purging

- A. Three volumes of the standing water in the point were purged. The amount of water extracted was app. 15 gal. Three volumes are purged due to the potential for cross contamination of the screen from upper soil horizons. This was accomplished utilizing a peristaltic pump, and utilizing food grade tubing.

3. Sampling

- A. Sampling methods, sample preservation requirements, sample handling times, decontamination procedure for field equipment, and frequency for field blanks, field duplicates and trip blanks conform to applicable industry methods such as those specified in the NJDEP "Field Sampling Procedures Manual" in effect as of the date on which sampling is performed. Any deviations from the methods in the "Field Sampling Procedures Manual" pursuant to N.J.A.C. 7:26E-1.6(c) has been approved by the person responsible for conducting the remediation.

All samples were preserved in the field immediately after collection and submitted to the laboratory as soon as possible and no later than 48 hours after sample collection.

The acquisition of samples and water level measurements were performed as recommended and described in the May 1992 edition of NJDEP Field Sampling Procedures Manual.

4. Quality Assurance/Quality Control

A. Decontamination

The associated equipment (bull point, riser pipe, etc.) was decontaminated between borings using the following procedure:

1. Remove all adherent soil material.
2. Wash with a laboratory grade glassware detergent.
3. Rinsed with potable water.
4. Rinse with distilled and deionized ASTM Type II water.

B. Field Blanks

- 1 Field blank was taken from this site.
- C. Sample bottles: Supplied by Environmental Sampling Supply, Oakland, Calif.
The sample bottles are certified clean and are sealed upon delivery.
- D. P.V.C. Screens: Supplied by Bedrock Enterprises, Forked River N.J.

Geoprobe Operator: Mark Laura
Employer: U.S. Army, Fort Monmouth
Phone Number: [732] 532-8990
NJDEP License #: J-1486

Mark Laura 12-22-98
Mark Laura / Date

000006

METHODOLOGY SUMMARY

Methodology Summary

EPA Method 624 Gas Chromatographic Determination of Volatiles in Water

Surrogates and internal standards are added to a 5 ml aliquot of sample. The sample is then purged and desorbed into a GC/MS system. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer. Volatiles are identified and quantitated.

EPA Method 3510/8270 Gas Chromatographic Determination of Semi-volatiles in Water

Surrogates are added to a measured volume of sample, usually 1 liter, at a specified pH. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

000009

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

Indicate
Yes, No, N/A

1. Chromatograms labeled/Compounds identified
(Field samples and method blanks) Yes
2. Retention times for chromatograms provided Yes
3. GC/MS Tune Specifications
 - a. BFB Meet Criteria Yes
 - b. DFTPP Meet Criteria Yes
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series Yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series Yes
6. GC/MS Calibration requirements
 - a. Calibration Check Compounds Meet Criteria Yes
 - b. System Performance Check Compounds Meet Criteria Yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank: No
 - a. VOA Fraction _____
 - b. B/N Fraction _____
 - c. Acid Fraction NA _____
8. Surrogate Recoveries Meet Criteria Yes

If not met, list those compounds and their recoveries, which fall outside the acceptable range:

 - a. VOA Fraction _____
 - b. B/N Fraction _____
 - c. Acid Fraction NA _____
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria
(If not met, list those compounds and their recoveries, which fall outside the acceptable range)

 - a. VOA Fraction _____
 - b. B/N Fraction _____
 - c. Acid Fraction NA _____

0000010

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria
(If not met, list those compounds, which fall outside the acceptable range)

Yes

- a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction N/A

11. Extraction Holding Time Met

Yes

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met

Yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: 

Date: 2-5-99

000011

LABORATORY CHRONICLE

000012

Laboratory Chronicle

Lab ID: 4152

Site: Bldg. 485

| | Date | Hold Time |
|-----------------------|-------------|-----------|
| Date Sampled | 12/19/98 | NA |
| Receipt/Refrigeration | 12/21/98 | NA |
| Extractions | | |
| 1. Base Neutrals | 12/21/98 | 7 Days |
| Analyses | | |
| 1. Volatile Organics | 12/28,29/98 | 14 Days |
| 2. Base Neutrals | 12/28,29/98 | 40 Days |

000013

VOLATILE ORGANICS

000014

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit

- J** : Compound identified below detection limit
- B** : Compound in both sample and blank
- D** : Results from dilution of sample
- U** : Compound searched for but not detected

060015

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **vb02437.d**

Operator **Skelton**

Date Acquired **28 Dec 98 9:59 am**

Sample Name **Vblk76**
Field ID **Vblk76**
Sample Multiplier **1**

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ethe | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethan | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

000016

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Vblk76

| | | | |
|----------------------|-------|----------------------|-------------------------|
| Lab Name: | FMETL | Project | 980932 |
| NJDEP# | 13461 | Case No.: | 4152 |
| Matrix (soil/water) | WATER | SDG No | Location UST |
| Sample wt/vol: | 5.0 | (g/ml) ML | Lab Sample ID: Vblk76 |
| Level: (low/med) | LOW | Lab File ID: | VB02437.D |
| % Moisture: not dec. | | Date Received: | 12/21/98 |
| GC Column: | HP5MS | ID: 0.25 (mm) | Date Analyzed: 12/28/98 |
| Soil Extract Volume: | | Dilution Factor: | 1.0 |
| | | Soil Aliquot Volume: | (uL) |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
| | | | | |

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name vb02459.d

Sample Name 4150.01

Operator Skelton

Field ID

Trip Blank

Date Acquired 29 Dec 98 3:10 am

Sample Multiplier

1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|--------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethan | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ethe | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloroprope | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethan | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time

000018

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

| | | | | | | | |
|----------------------|--------------|-----------|------------------|----------------------|------------------|----------|------------|
| Lab Name: | <u>FMETL</u> | Project | <u>980932</u> | | | | |
| NJDEP# | <u>13461</u> | Case No.: | <u>4150</u> | SDG No | <u></u> | Location | <u>UST</u> |
| Matrix (soil/water) | <u>WATER</u> | | | Lab Sample ID: | <u>4150.01</u> | | |
| Sample wt/vol: | <u>5.0</u> | (g/ml) | <u>ML</u> | Lab File ID: | <u>VB02459.D</u> | | |
| Level: (low/med) | <u>LOW</u> | | | Date Received: | <u>12/21/98</u> | | |
| % Moisture: not dec. | | | | Date Analyzed: | <u>12/29/98</u> | | |
| GC Column: | <u>HP5MS</u> | ID: | <u>0.25</u> (mm) | Dilution Factor: | <u>1.0</u> | | |
| Soil Extract Volume: | <u>(uL)</u> | | | Soil Aliquot Volume: | <u>(uL)</u> | | |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
| | | | | |

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name vb02460.d

Operator Skelton

Date Acquired 29 Dec 98 3:54 am

Sample Name

4150.02

Field ID

Field Blank

Sample Multiplier

1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|--------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ethe | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloroprope | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethan | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

000000

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

| | | | |
|----------------------|-------|----------------------|-----------|
| Lab Name: | FMETL | Project | 980932 |
| NJDEP# | 13461 | Case No.: | 4150 |
| SDG No | | Location | UST |
| Matrix (soil/water) | WATER | Lab Sample ID: | 4150.02 |
| Sample wt/vol: | 5.0 | (g/ml) | ML |
| Level: (low/med) | LOW | Date Received: | 12/21/98 |
| % Moisture: not dec. | | Date Analyzed: | 12/29/98 |
| GC Column: | HP5MS | ID: | 0.25 (mm) |
| Soil Extract Volume: | (uL) | Dilution Factor: | 1.0 |
| | | Soil Aliquot Volume: | (uL) |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
| | | | | |

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name VB02464.D
 Operator Skelton
 Date Acquired 29 Dec 98 6:53 am

Sample Name 4152.01
 Field ID Bldg485
 Sample Multiplier 1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ethe | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethan | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

000022

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Bldg485

| | | | |
|----------------------|-------|------------------|-----------|
| Lab Name: | FMETL | Project | 980932 |
| NJDEP# | 13461 | Case No.: | 4152 |
| SDG No | | Location | UST |
| Matrix (soil/water) | WATER | Lab Sample ID: | 4152.01 |
| Sample wt/vol: | 5.0 | (g/ml) | ML |
| Level: (low/med) | LOW | Date Received: | 12/21/98 |
| % Moisture: not dec. | | Date Analyzed: | 12/29/98 |
| GC Column: | HP5MS | ID: | 0.25 (mm) |
| Soil Extract Volume: | (uL) | Dilution Factor: | 1.0 |
| Soil Aliquot Volume: | (uL) | | |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 7

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|-----------------------------------|-------|------------|----|
| 1. 000275-51-4 | Azulene | 31.33 | 4 | JN |
| 2. 003877-19-8 | Naphthalene, 1,2,3,4-tetrahydro-2 | 31.84 | 6 | JN |
| 3. | unknown | 33.81 | 4 | J |
| 4. 000135-01-3 | Benzene, 1,2-diethyl- | 34.95 | 3 | JN |
| 5. 000496-11-7 | Indane | 35.43 | 5 | JN |
| 6. 000934-80-5 | Benzene, 4-ethyl-1,2-dimethyl- | 36.16 | 4 | JN |
| 7. 000767-58-8 | Indan, 1-methyl- | 36.76 | 4 | JN |

BASE NEUTRAL

000052

Semi-Volatile Base Neutral Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

| | | | |
|----------------|-----------------------------|-------------------|------------------------|
| Data File Name | BNA01737.D | Sample Name | Sblk185 |
| Operator | Skelton | Misc Info | Sblk185 A 98122 |
| Date Acquired | 28 Dec 1998 10:05 pm | Sample Multiplier | 1 |

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|-----------|-----------------------------|------|----------|--------------|--------------------------|------|-----------|
| 110-86-1 | Pyridine | | | not detected | NLE | 2.52 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 2.64 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 2.90 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 2.45 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 2.65 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 2.50 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 2.09 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 2.44 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 2.96 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | | | not detected | 20 | 2.22 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 2.59 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 2.45 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 2.31 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 2.54 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 2.58 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 3.03 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 2.55 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.64 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 2.49 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.59 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 2.15 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 2.74 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 2.35 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 1.54 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 1.98 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 2.13 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 1.22 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 1.68 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 1.93 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 1.53 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 2.70 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 1.73 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 1.92 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 1.54 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 1.88 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 1.67 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 1.79 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 1.83 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 1.85 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 4.11 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 1.02 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 1.15 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 10 | 1.57 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 2.28 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 2.32 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 1.29 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 1.30 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 10 | 1.31 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 2 | 1.57 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 20 | 1.36 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 1.22 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 3.12 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 1.13 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

000053

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Sblk185

Lab Name: FMETL Lab Code 13461
Project 980211 Case No.: 4152 Location 485 SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: Sblk185
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA01737.D
Level: (low/med) LOW Date Received: 12/21/98
% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/21/98
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/28/98
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

Semi-Volatile Base Neutral Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

| | | | |
|----------------|---------------------|-------------------|-------------|
| Data File Name | bna01747.d | Sample Name | 4150.02 |
| Operator | Skelton | Misc Info | Field Blank |
| Date Acquired | 29 Dec 1998 5:05 am | Sample Multiplier | 1 |

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifier |
|-----------|-----------------------------|------|----------|--------------|--------------------------|------|-----------|
| 110-86-1 | Pyridine | | | not detected | NLE | 2.52 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 2.64 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 2.90 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 2.45 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 2.65 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 2.50 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 2.09 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 2.44 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 2.96 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | | | not detected | 20 | 2.22 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 2.59 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 2.45 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 2.31 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 2.54 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 2.58 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 3.03 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 2.55 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.64 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 2.49 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.59 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 2.15 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 2.74 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 2.35 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 1.54 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 1.98 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 2.13 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 1.22 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 1.68 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 1.93 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 1.53 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 2.70 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 1.73 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 1.92 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 1.54 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 1.88 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 1.67 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 1.79 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 1.83 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 1.85 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 4.11 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 1.02 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 1.15 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 10 | 1.57 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 2.28 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 2.32 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 1.29 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 1.30 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 10 | 1.31 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 2 | 1.57 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 20 | 1.36 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 1.22 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 3.12 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 1.13 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

000055

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID
 TENTATIVELY IDENTIFIED COMPOUNDS

| | | | | |
|------------------------------|---------------|--------------|--------------------------------|---------------------------------|
| Lab Name: | <u>FMETL</u> | Lab Code | <u>13461</u> | Field Blank |
| Project | <u>980211</u> | Case No.: | <u>4150</u> | Location <u>65</u> SDG No.: |
| Matrix: (soil/water) | <u>WATER</u> | | | Lab Sample ID: <u>4150.02</u> |
| Sample wt/vol: | <u>1000</u> | (g/ml) | <u>ML</u> | Lab File ID: <u>BNA01747.D</u> |
| Level: (low/med) | <u>LOW</u> | | | Date Received: <u>12/21/98</u> |
| % Moisture: | | | | Date Extracted: <u>12/21/98</u> |
| Concentrated Extract Volume: | <u>1000</u> | (uL) | Date Analyzed: <u>12/29/98</u> | |
| Injection Volume: | <u>1.0</u> | (uL) | Dilution Factor: <u>1.0</u> | |
| GPC Cleanup: (Y/N) | <u>N</u> | pH: <u>7</u> | | |

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| | | | | |

Semi-Volatile Base Neutral Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **bna01751.d**
 Operator **Skelton**
 Date Acquired **29 Dec 1998 7:51 am**

Sample Name **4152.02**
 Misc Info **Bldg485**
 Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|-----------|-----------------------------|-------|----------|--------------|-----------------------------|------|-----------|
| 110-86-1 | Pyridine | | | not detected | NLE | 2.52 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 2.64 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 2.90 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 2.45 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 2.65 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 2.50 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 2.09 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 2.44 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 2.96 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | | | not detected | 20 | 2.22 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 2.59 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 2.45 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 2.31 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 2.54 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 2.58 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 3.03 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 2.55 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.64 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 2.49 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.59 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 2.15 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 2.74 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 2.35 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 1.54 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 1.62 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 1.98 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 2.13 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 1.22 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 1.68 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 1.93 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 1.53 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 2.70 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 1.73 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 1.92 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 1.54 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 1.88 | ug/L |
| 85-01-8 | Phenanthrene | 17.68 | 339635 | 3.12 ug/L | NLE | 1.67 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 1.79 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 1.83 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 1.85 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 4.11 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 1.02 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 1.15 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 10 | 1.57 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 2.28 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 2.32 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 1.29 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 1.30 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 10 | 1.31 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 2 | 1.57 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 20 | 1.36 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 1.22 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 3.12 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 1.13 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-

Qualifiers

E = Value exceeded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

000057

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID
 TENTATIVELY IDENTIFIED COMPOUNDS

| | | | | | |
|------------------------------|--------|-----------------|------------------|-----------------|------------|
| Lab Name: | FMETL | Lab Code | 13461 | Bldg.485 | |
| Project | 980211 | Case No.: | 4152 | SDG No.: | |
| Matrix: (soil/water) | WATER | | Lab Sample ID: | 4152.02 | |
| Sample wt/vol: | 1000 | (g/ml) | ML | Lab File ID: | BNA01751.D |
| Level: (low/med) | LOW | | Date Received: | 12/21/98 | |
| % Moisture: | | decanted: (Y/N) | N | Date Extracted: | 12/21/98 |
| Concentrated Extract Volume: | 1000 | (uL) | Date Analyzed: | 12/29/98 | |
| Injection Volume: | 1.0 | (uL) | Dilution Factor: | 1.0 | |
| GPC Cleanup: (Y/N) | N | pH: | 7 | | |

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|---------------------------------|-------|------------|----|
| 1. 001921-70-6 | Pentadecane, 2,6,10,14-tetramet | 16.80 | 13 | JN |

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT
AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1. Cover page, Title Page listing Lab Certification #, facility name and address, & date of report submitted
2. Table of Contents submitted
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted
4. Document paginated and legible
5. Chain of Custody submitted
6. Samples submitted to lab within 48 hours of sample collection
7. Methodology Summary submitted
8. Laboratory Chronicle and Holding Time Check submitted
9. Results submitted on a dry weight basis
10. Method Detection Limits submitted
11. Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP

Laboratory Manager or Environmental Consultant's Signature _____
Date 2/5/99

Laboratory Certification #13461

*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP Methods for further guidance.

000085

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.



**Daniel K. Wright
Laboratory Manager**

000086

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

NJDEP LABORATORY CERTIFICATION # 13461



ANALYTICAL DATA REPORT

Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION

Fort Monmouth, New Jersey

PROJECT: UST Program

Bldg. 485

| Field Location No. & Location | Laboratory Sample ID# | Matrix | Date and Time Of Collection | Date Received |
|-------------------------------|-----------------------|---------|-----------------------------|---------------|
| Trip Blank | 4252.01 | Aqueous | 05-Feb-99 | 02/05/99 |
| Field Blank | 4252.02 | Aqueous | 05-Feb-99 09:15 | 02/05/99 |
| Bldg. 485 | 4253.01 | Aqueous | 05-Feb-99 09:55 | 02/05/99 |
| Dup. | 4253.02 | Aqueous | 05-Feb-99 | 02/05/99 |

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15



3-4-99
Daniel Wright/Date
Laboratory Director

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CHAIN OF CUSTODY

000001



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

| Customer: Charles Appleby | | Project No: Location: 485 UST | | | | Analysis Parameters | | | | | | Comments: | |
|--|-----------------|----------------------------------|---|------|------------------------------|---------------------|------------|--------------------------|--|--|--|-----------|--|
| Phone #: | 126224 | | | | | V0 + 15 | V0 + 30 | | | | | | |
| <input type="checkbox"/> DERA <input checked="" type="checkbox"/> OMA <input checked="" type="checkbox"/> Other: _____ | | | | | | | | Hans Radt | | | | | |
| Samplers Name / Company : Corey McCormack, TVS | | | | | | Sample # | | | | | | | |
| Lab Sample I.D. | Sample Location | Date | Time | Type | bottles | | | | | | | | |
| 4253 .01 | Bldg 485 | 2/5/99 | 0955 | AQ | 3 | ✓ | ✓ | | | | | ✓ | |
| 4253 .02 | "Dupe" | ↓ | - | AQ | 3 | ✓ | ✓ | | | | | 0,0 | |
| | | | | | | | | | | | | | |
| Relinquished by (signature): <i>Corey McCormack</i> | | Date/Time: 2/5/99 1050 | Received by (signature): <i>J. Clegg</i> | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | | |
| | | | | | | | | | | | | | |
| Relinquished by (signature): | | Date/Time: | Received by (signature): | | Relinquished by (signature): | | Date/Time: | Received by (signature): | | | | | |
| | | | | | | | | | | | | | |



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

| Customer: Charles Appleby | | Project No: | | | Analysis Parameters | | | | | Comments: | | | |
|---|-----------------|--|------|---|---------------------------------|--|-----|------------|----|--------------------------|-----|---|-------------------------------|
| Phone #: X260224 | | | | | Location: Bldg 74 USTs Con't | | | | | | | | |
| () DERA () OMA () Other: _____ | | Samplers Name / Company: Corey McCormack, TR | | Sample | # | VOC | H/N | UV | IR | MS | Red | | |
| Lab Sample I.D. | Sample Location | Date | Time | Type | bottles | | | | | | | | Remarks / Preservation Method |
| 4252. .01 | Trip | 2/5/99 | 0800 | AQ | 2 | ✓ | | | | | | | |
| .02 | Field Blank | | 0915 | | 3 | ✓ | ✓ | | | | | | |
| .03 | Bldg 74 | | 0920 | | 3 | ✓ | ✓ | | | | | ✓ | 0.0 |
| <u>.04</u> | " " | | 0925 | | 3 | ✓ | ✓ | | | | | ✓ | 0.0 |
| | | | | | | | | | | | | | |
| Relinquished by (signature): <i>Corey McCormack</i> | | Date/Time: 2/5/99 1050 | | Received by (signature): <i>J. Appleby</i> | | Relinquished by (signature): | | Date/Time: | | Received by (signature): | | | |
| | | | | | | | | | | | | | |
| Relinquished by (signature): | | Date/Time: | | Received by (signature): | | Relinquished by (signature): | | Date/Time: | | Received by (signature): | | | |
| | | | | | | | | | | | | | |
| Report Type: <input type="checkbox"/> Full, <input checked="" type="checkbox"/> Reduced, <input type="checkbox"/> Standard, <input type="checkbox"/> Screen / non-certified | | | | | | Remarks: Shows Trip/Blank w/ 485. Shows Pga from 485 | | | | | | | |
| Turnaround time: <input checked="" type="checkbox"/> Standard 4 wks, <input type="checkbox"/> Rush _____ Days, <input type="checkbox"/> ASAP Verbal _____ Hrs. | | | | | | Title: L → I | | | | | | | |

FIELD DOCUMENTATION

000004

Post Remedial Groundwater Sampling at Former Underground Storage Tank Site [# 2 fuel oil]

FOR BLDG. # 485

1. Methods

- A. This sample was extracted from this site from a monitor well that was buried and not sampled for some time. The well location was app. 240 degrees s.w. of the gps location. [app. 11 feet away]

2. Purging

- A. Three volumes of the standing water in the point were purged. The amount of water extracted was app. 15 gal. Three volumes are purged due to the potential for cross contamination of the screen from upper soil horizons. This was accomplished utilizing a peristaltic pump, and utilizing food grade tubing.

3. Sampling

- A. Sampling methods, sample preservation requirements, sample handling times, decontamination procedure for field equipment, and frequency for field blanks, field duplicates and trip blanks conform to applicable industry methods such as those specified in the NJDEP "Field Sampling Procedures Manual" in effect as of the date on which sampling is performed. Any deviations from the methods in the "Field Sampling Procedures Manual" pursuant to N.J.A.C. 7:26E-1.6(c) has been approved by the person responsible for conducting the remediation.

All samples were preserved in the field immediately after collection and submitted to the laboratory as soon as possible and no later than 48 hours after sample collection.

The acquisition of samples and water level measurements were performed as recommended and described in the May 1992 edition of NJDEP Field Sampling Procedures Manual.

4. Quality Assurance/Quality Control

A. Decontamination

The associated equipment (bull point, riser pipe, etc.) was decontaminated between borings using the following procedure:

1. Remove all adherent soil material.
2. Wash with a laboratory grade glassware detergent.
3. Rinsed with potable water.
4. Rinse with distilled and deionized ASTM Type II water.

000005

B. Field Blanks

1 Field blank was taken from this site.

C. Sample bottles: Supplied by Environmental Sampling Supply, Oakland, Calif.
The sample bottles are certified clean and are sealed upon delivery.

D. P.V.C. Screens: Supplied by Bedrock Enterprises, Forked River N.J.

Geoprobe Operator: Mark Laura
Employer: U.S. Army, Fort Monmouth
Phone Number: [732] 532-8990
NJDEP License #: J-1486

Mark Laura 12-22-98
Mark Laura / Date

000006

METHODOLOGY SUMMARY

000007

Methodology Summary

EPA Method 624

Gas Chromatographic Determination of Volatiles in Water

Surrogates and internal standards are added to a 5 ml aliquot of sample. The sample is then purged and desorbed into a GC/MS system. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer. Volatiles are identified and quantitated.

EPA Method 3510/8270

Gas Chromatographic Determination of Semi-volatiles in Water

Surrogates are added to a measured volume of sample, usually 1 liter, at a specified pH. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

| | Indicate Yes, No, N/A |
|---|--------------------------|
| 1. Chromatograms labeled/Compounds identified (Field samples and method blanks) | <u>yes</u> |
| 2. Retention times for chromatograms provided | <u>yes</u> |
| 3. GC/MS Tune Specifications | |
| a. BFB Meet Criteria | <u>yes</u> |
| b. DFTPP Meet Criteria | <u>yes</u> |
| 4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series | <u>yes</u> |
| 5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series | <u>yes</u> |
| 6. GC/MS Calibration requirements | |
| a. Calibration Check Compounds Meet Criteria | <u>yes</u> |
| b. System Performance Check Compounds Meet Criteria | <u>yes</u> |
| 7. Blank Contamination – If yes, List compounds and concentrations in each blank: | <u>No</u> |
| a. VOA Fraction | |
| b. B/N Fraction | |
| c. Acid Fraction | <u>NA</u> |
| 8. Surrogate Recoveries Meet Criteria | <u>yes</u> |
| If not met, list those compounds and their recoveries, which fall outside the acceptable range: | |
| a. VOA Fraction | |
| b. B/N Fraction | |
| c. Acid Fraction | <u>NA</u> |
| If not met, were the calculations checked and the results qualified as "estimated"? | |
| 9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range) | <u>yes</u> |
| a. VOA Fraction | |
| b. B/N Fraction | |
| c. Acid Fraction | <u>NA</u> |

000010

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction NA _____

Yes

11. Extraction Holding Time Met

If not met, list the number of days exceeded for each sample:

Yes

12. Analysis Holding Time Met

If not met, list the number of days exceeded for each sample:

Yes

Additional Comments:

Blind duplicate (4253.02) performed on Bldg 485
(4253.01)

Laboratory Manager:  Date: 3-4-99

000011

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 4253

Site: Bldg. 485

| | Date | Hold Time |
|-----------------------|----------|-----------|
| Date Sampled | 02/05/99 | NA |
| Receipt/Refrigeration | 02/05/99 | NA |

Extractions

| | | |
|------------------|----------|--------|
| 1. Base Neutrals | 02/09/99 | 7 Days |
|------------------|----------|--------|

Analyses

| | | |
|----------------------|-------------|---------|
| 1. Volatile Organics | 02/17/99 | 14 Days |
| 2. Base Neutrals | 02/10,11/99 | 40 Days |

000013

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEPE # 13461

Definition of Qualifiers

MDL : Method Detection Limit

- J** : Compound identified below detection limit
- B** : Compound in both sample and blank
- D** : Results from dilution of sample
- U** : Compound searched for but not detected

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB02646.D
 Operator Skelton
 Date Acquired 17-Feb-99

Sample Name Vblk82
 Field ID Vblk82
 Sample Multiplier 1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m-p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Vblk82

| | | | |
|----------------------|------------|----------------------|-----------|
| Lab Name: | FMETL | Project | 980932 |
| NJDEP# | 13461 | Case No.: | 4253 |
| Matrix: (soil/water) | WATER | SDG No | _____ |
| Sample wt/vol: | 5.0 | (g/ml) | ML |
| Level: (low/med) | LOW | Lab Sample ID: | Vblk82 |
| % Moisture: not dec. | _____ | Lab File ID: | VB02646.D |
| GC Column: | Rtx5MS | ID: | 0.25 (mm) |
| Soil Extract Volume: | _____ (uL) | Date Received: | 2/5/99 |
| | | Date Analyzed: | 2/17/99 |
| | | Dilution Factor: | 1.0 |
| | | Soil Aliquot Volume: | (uL) |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB02647.D**
 Operator **Skelton**
 Date Acquired **17-Feb-99**

Sample Name **4252.01**
 Field ID **Trip Blank**
 Sample Multiplier **1**

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifier |
|------------|---------------------------|-------|----------|--------------|-----------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | 12.60 | 215110 | 7.39 ug/L | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m-p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Trip Blank

| | | | | | | | |
|----------------------|---------------|-----------|---------------|----------------------|------------------|------------|------------|
| Lab Name: | <u>FMETL</u> | Project | <u>980932</u> | | | | |
| NJDEP# | <u>13461</u> | Case No.: | <u>4252</u> | SDG No | <u></u> | Location | <u>UST</u> |
| Matrix: (soil/water) | <u>WATER</u> | | | Lab Sample ID: | <u>4252.01</u> | | |
| Sample wt/vol: | <u>5.0</u> | (g/ml) | <u>ML</u> | Lab File ID: | <u>VB02647.D</u> | | |
| Level: (low/med) | <u>LOW</u> | | | Date Received: | <u>2/5/99</u> | | |
| % Moisture: not dec. | | | | Date Analyzed: | <u>2/17/99</u> | | |
| GC Column: | <u>Rtx5MS</u> | ID: | <u>0.25</u> | (mm) | Dilution Factor: | <u>1.0</u> | |
| Soil Extract Volume: | | | | Soil Aliquot Volume: | <u>(uL)</u> | | |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB02648.D**
 Operator **Skelton**
 Date Acquired **17-Feb-99**

Sample Name **4252.02**
 Field ID **Field Blank**
 Sample Multiplier **1**

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/L) ^a | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|---|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Field Blank

Lab Name: FMETL Project 980932
NJDEP# 13461 Case No.: 4252 SDG No _____ Location UST
Matrix: (soil/water) WATER Lab Sample ID: 4252.02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB02648.D
Level: (low/med) LOW Date Received: 2/5/99
% Moisture: not dec. Date Analyzed: 2/17/99
GC Column: Rtx5MS ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB02651.D**
 Operator **Skelton**
 Date Acquired **17-Feb-99**

Sample Name **4253.01**
 Field ID **Bldg485**
 Sample Multiplier **1**

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Bldg485

| | | | |
|----------------------|--------|----------------------|-----------|
| Lab Name: | FMETL | Project | 980932 |
| NJDEP# | 13461 | Case No.: | 4253 |
| SDG No | | Location | UST |
| Matrix: (soil/water) | WATER | Lab Sample ID: | 4253.01 |
| Sample wt/vol: | 5.0 | (g/ml) | ML |
| Level: (low/med) | LOW | Lab File ID: | VB02651.D |
| % Moisture: not dec. | | Date Received: | 2/5/99 |
| GC Column: | Rtx5MS | ID: | 0.25 (mm) |
| Soil Extract Volume: | | Dilution Factor: | 1.0 |
| | | Soil Aliquot Volume: | (uL) |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|----------------------------|-------|------------|----|
| 1. 000496-11-7 | Indane | 35.26 | 7 | JN |
| 2. 027133-93-3 | 2,3-Dihydro-1-methylindene | 36.59 | 5 | JN |

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB02652.D**
 Operator **Skelton**
 Date Acquired **17-Feb-99**

Sample Name **4253.02**
 Field ID **Field Dupe**
 Sample Multiplier **1**

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | Qualifier |
|------------|---------------------------|------|----------|--------------|--------------------------|-----------|-----------|
| 107028 | Acrolein | | | not detected | 50 | 1.85 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 50 | 2.78 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | nle | 8.52 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | nle | 0.16 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | nle | 0.25 ug/L | |
| | Dichlorodifluoromethane | | | not detected | nle | 1.68 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | 30 | 1.16 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 5 | 1.06 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 1.10 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 1.01 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | nle | 0.50 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 2 | 0.24 ug/L | |
| 67-64-1 | Acetone | | | not detected | 700 | 1.36 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | nle | 0.46 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 2 | 0.24 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.16 ug/L | |
| 75-35-3 | 1,1-Dichloroethane | | | not detected | 70 | 0.12 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | nle | 0.78 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.62 ug/L | |
| | cis-1,2-Dichloroethene | | | not detected | 10 | 0.17 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 6 | 0.30 ug/L | |
| 75-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.23 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 2 | 0.47 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.23 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.18 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.23 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.40 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.55 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.65 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | nle | 0.69 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | 400 | 0.59 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.37 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | nle | 0.87 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.48 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.32 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.71 ug/L | |
| 126-48-1 | Dibromochloromethane | | | not detected | 10 | 0.86 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 4 | 0.39 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.65 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 1.14 ug/L | |
| 1330-20-7 | o-Xylene | | | not detected | nle | 0.62 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.56 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.70 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 2 | 0.47 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.55 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.57 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.64 ug/L | |

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Dupe

| | | | | | | | |
|----------------------|---------------|-----------|------------------|----------------------|------------------|----------|------------|
| Lab Name: | <u>FMETL</u> | Project | <u>980932</u> | | | | |
| NJDEP# | <u>13461</u> | Case No.: | <u>4253</u> | SDG No | | Location | <u>UST</u> |
| Matrix: (soil/water) | <u>WATER</u> | | | Lab Sample ID: | <u>4253.02</u> | | |
| Sample wt/vol: | <u>5.0</u> | (g/ml) | <u>ML</u> | Lab File ID: | <u>VB02652.D</u> | | |
| Level: (low/med) | <u>LOW</u> | | | Date Received: | <u>2/5/99</u> | | |
| % Moisture: not dec. | | | | Date Analyzed: | <u>2/17/99</u> | | |
| GC Column: | <u>Rtx5MS</u> | ID: | <u>0.25</u> (mm) | Dilution Factor: | <u>1.0</u> | | |
| Soil Extract Volume: | (uL) | | | Soil Aliquot Volume: | (uL) | | |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 2

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|----------------------------|-------|------------|----|
| 1. 000496-11-7 | Indane | 35.26 | 8 | JN |
| 2. 027133-93-3 | 2,3-Dihydro-1-methylindene | 36.59 | 6 | JN |

BASE NEUTRAL

000054

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN02800.D**
 Operator **Bhaskar**
 Date Acquired **10-Feb-99**

Sample Name **Sblk204**
 Misc Info **Sblk204 A 990209**
 Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifiers |
|-----------|-----------------------------|------|----------|--------------|--------------------------|------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 5.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 0.94 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 0.15 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 0.48 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.23 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 0.18 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.16 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.61 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 0.33 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 0.46 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 0.35 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.46 | ug/L |
| 65-85-0 | Benzoic Acid | | | not detected | NLE | 0.26 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.25 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 0.25 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 0.19 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.38 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 0.16 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.50 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 0.32 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.21 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 0.18 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.19 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 0.31 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 0.26 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.26 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.32 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.36 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 0.82 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.29 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.31 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 0.90 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 0.23 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.80 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.55 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 0.82 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.18 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.19 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 0.23 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.41 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 1.45 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.32 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.47 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 10 | 0.22 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 0.46 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 0.20 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 0.51 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 0.82 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 10 | 0.37 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 2 | 0.32 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 20 | 0.31 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 0.79 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 0.28 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 0.40 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

000055

1F

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Field ID:

Sblk204

| | | |
|---|-------------------------------|-------------------------------|
| Lab Name: <u>FMETL</u> | Lab Cod <u>13461</u> | SDG No: _____ |
| Project: <u>UST</u> | Case No.: <u>4253</u> | Location: <u>485</u> |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: <u>Sblk204</u> | |
| Sample wt/vol: <u>1000</u> (g/ml) <u>ML</u> | Lab File ID: <u>BN02800.D</u> | |
| Level: (low/med) <u>LOW</u> | Date Received: <u>2/5/99</u> | |
| % Moisture: _____ | decanted: (Y/N) <u>N</u> | Date Extracted: <u>2/9/99</u> |
| Concentrated Extract Volume: <u>1000</u> (uL) | Date Analyzed: <u>2/10/99</u> | |
| Injection Volume: <u>1.0</u> (uL) | Dilution Factor: <u>1.0</u> | |
| GPC Cleanup: (Y/N) <u>N</u> | pH: _____ | |

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| | | | | |

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name BN02804.D
 Operator Bhaskar
 Date Acquired 10-Feb-99

Sample Name 4252.02
 Misc Info Field Blank
 Sample Multiplier 1

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifiers |
|-----------|-----------------------------|------|----------|--------------|--------------------------|------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 5.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 0.94 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 0.15 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 0.48 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.23 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 0.18 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.16 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.61 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 0.33 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 0.46 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 0.35 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.46 | ug/L |
| 65-85-0 | Benzoic Acid | | | not detected | NLE | 0.26 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.25 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 0.25 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 0.19 | ug/L |
| 87-58-3 | Hexachlorobutadiene | | | not detected | 1 | 0.38 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 0.16 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.50 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 0.32 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.21 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 0.18 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.19 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 0.31 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 0.26 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.26 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.32 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.36 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 0.82 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.29 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.31 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 0.90 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 0.23 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.80 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.55 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 0.82 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.18 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.19 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 0.23 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.41 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 1.45 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.32 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.47 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 10 | 0.22 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 0.46 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 0.20 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 0.51 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 0.82 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 10 | 0.37 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 2 | 0.32 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 20 | 0.31 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 0.79 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 0.28 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 0.40 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

Qualifiers

E= Value Exceeds Linear Range
 D= Value from dilution
 B= Compound in Related Blank
 PQL= Practical Quantitation Limit

MDL= Method Detection Limit
 NLE= No Limit Established
 R.T.=Retention Time

000057

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Field Blank

| | | |
|---|--------------------------|--|
| Lab Name: <u>FMETL</u> | Lab Cod <u>13461</u> | Location: <u>Bldg.74</u> SDG No: _____ |
| Project: <u>UST</u> | Case No.: <u>4252</u> | Lab Sample ID: <u>4252.02</u> |
| Matrix: (soil/water) <u>WATER</u> | | Lab File ID: <u>BN02804.D</u> |
| Sample wt/vol: <u>1000</u> (g/ml) <u>ML</u> | | Date Received: <u>2/5/99</u> |
| Level: (low/med) <u>LOW</u> | | Date Extracted: <u>2/9/99</u> |
| % Moisture: _____ | decanted: (Y/N) <u>N</u> | Date Analyzed: <u>2/10/99</u> |
| Concentrated Extract Volume: <u>1000</u> (uL) | | Dilution Factor: <u>1.0</u> |
| Injection Volume: <u>1.0</u> (uL) | | |
| GPC Cleanup: (Y/N) <u>N</u> | pH: _____ | |

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| | | | | |

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name **BN02807.D**
 Operator **Bhaskar**
 Date Acquired **11-Feb-99**

Sample Name **4253.01**
 Misc Info **Bldg.485**
 Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifiers |
|-----------|-----------------------------|------|----------|--------------|-----------------------------|------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 5.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 0.94 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 0.15 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 0.48 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.23 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 0.18 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.16 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.61 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 0.33 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 0.46 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 0.35 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.46 | ug/L |
| 65-85-0 | Benzoic Acid | | | not detected | NLE | 0.26 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.25 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 0.25 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 0.19 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.38 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 0.16 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.50 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 0.32 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.21 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 0.18 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.19 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 0.31 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 0.26 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.26 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.32 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.36 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 0.82 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.29 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.31 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 0.90 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 0.23 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.80 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.55 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 0.82 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.18 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.19 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 0.23 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.41 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 1.45 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.32 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.47 | ug/L |
| 56-55-3 | Benz[a]anthracene | | | not detected | 10 | 0.22 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 0.46 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 0.20 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 0.51 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 0.82 | ug/L |
| 205-99-2 | Benz[b]fluoranthene | | | not detected | 10 | 0.37 | ug/L |
| 207-08-9 | Benz[k]fluoranthene | | | not detected | 2 | 0.32 | ug/L |
| 50-32-8 | Benz[a]pyrene | | | not detected | 20 | 0.31 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 0.79 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 0.28 | ug/L |
| 191-24-2 | Benzof[g,h,i]perylene | | | not detected | NLE | 0.40 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7.9-6

Qualifiers

E= Value Exceeds Linear Range
 D= Value from dilution
 B= Compound in Related Blank
 PQL= Practical Quantitation Limit

MDL= Method Detection Limit
 NLE= No Limit Established
 R.T.=Retention Time

000059

1F

**SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

Field ID:

Bldg.485

| | | | |
|---|--------------------------|-------------------------------|---------------|
| Lab Name: <u>FMETL</u> | Lab Cod <u>13461</u> | Location: <u>485</u> | SDG No: _____ |
| Project: <u>UST</u> | Case No.: <u>4253</u> | Lab Sample ID: <u>4253.01</u> | |
| Matrix: (soil/water) <u>WATER</u> | | Lab File ID: <u>BN02807.D</u> | |
| Sample wt/vol: <u>980</u> (g/ml) <u>ML</u> | | Date Received: <u>2/5/99</u> | |
| Level: (low/med) <u>LOW</u> | | Date Extracted: <u>2/9/99</u> | |
| % Moisture: _____ | decanted: (Y/N) <u>N</u> | Date Analyzed: <u>2/11/99</u> | |
| Concentrated Extract Volume: <u>1000</u> (uL) | | Dilution Factor: <u>1.0</u> | |
| Injection Volume: <u>1.0</u> (uL) | | | |
| GPC Cleanup: (Y/N) <u>N</u> | pH: _____ | | |

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| | | | | |

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

| | | | |
|----------------|------------------|-------------------|----------------|
| Data File Name | BN02808.D | Sample Name | 4253.02 |
| Operator | Bhaskar | Misc Info | Dupe |
| Date Acquired | 11-Feb-99 | Sample Multiplier | 1 |

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | Qualifiers |
|-----------|-----------------------------|------|----------|--------------|-----------------------------|------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 5.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 20 | 0.94 | ug/L |
| 62-53-3 | Aniline | | | not detected | NLE | 0.15 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 10 | 0.48 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.23 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | NLE | 0.18 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.16 | ug/L |
| 108-60-1 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.61 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 10 | 0.33 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 10 | 0.46 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 100 | 0.35 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.46 | ug/L |
| 65-85-0 | Benzoic Acid | | | not detected | NLE | 0.26 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.25 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | NLE | 0.25 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | NLE | 0.19 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.38 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 0.16 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 50 | 1.50 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | NLE | 0.32 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.21 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | 7000 | 0.18 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.19 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | NLE | 0.31 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 0.26 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.26 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.32 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.36 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 5000 | 0.82 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.29 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.31 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 0.90 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 20 | 0.23 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.80 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.55 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 10 | 0.82 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.18 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.19 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 900 | 0.23 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.41 | ug/L |
| 92-87-5 | Benzidine | | | not detected | 50 | 1.45 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.32 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.47 | ug/L |
| 56-55-3 | Benz[a]anthracene | | | not detected | 10 | 0.22 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 60 | 0.46 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 20 | 0.20 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 30 | 0.51 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 0.82 | ug/L |
| 205-99-2 | Benz[b]fluoranthene | | | not detected | 10 | 0.37 | ug/L |
| 207-08-9 | Benz[k]fluoranthene | | | not detected | 2 | 0.32 | ug/L |
| 50-32-8 | Benz[a]pyrene | | | not detected | 20 | 0.31 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 20 | 0.79 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 20 | 0.28 | ug/L |
| 191-24-2 | Benz[g,h,i]perylene | | | not detected | NLE | 0.40 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7.9-6

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank
PQL= Practical Quantitation Limit

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

000061

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Dupe

| | | | | |
|--|------------------------|------------------------|---------------|--|
| Lab Name: FMETL | Lab Cod 13461 | | | |
| Project: UST | Case No.: 4253 | Location: 485 | SDG No: _____ | |
| Matrix: (soil/water) WATER | Lab Sample ID: 4253.02 | | | |
| Sample wt/vol: 1000 (g/ml) ML | Lab File ID: BN02808.D | | | |
| Level: (low/med) LOW | Date Received: 2/5/99 | | | |
| % Moisture: _____ | decanted: (Y/N) N | Date Extracted: 2/9/99 | | |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 2/11/99 | | | |
| Injection Volume: 1.0 (uL) | Dilution Factor: 1.0 | | | |
| GPC Cleanup: (Y/N) N | pH: _____ | | | |

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
| | | | | |

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

**THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT
AND ACCOMPANY ALL DATA SUBMISSIONS**

The following Laboratory Deliverables checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1. Cover page, Title Page listing Lab Certification #, facility name and address, & date of report submitted
2. Table of Contents submitted
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted
4. Document paginated and legible
5. Chain of Custody submitted
6. Samples submitted to lab within 48 hours of sample collection
7. Methodology Summary submitted
8. Laboratory Chronicle and Holding Time Check submitted
9. Results submitted on a dry weight basis
10. Method Detection Limits submitted
11. Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP



Laboratory Manager or Environmental Consultant's Signature _____
Date 3/4/95

Laboratory Certification #13461

*Refer to NJAC 7:26E - Appendix A, Section IV - Reduced Data Deliverables - Non-USEPA/CLP Methods for further guidance.

000091

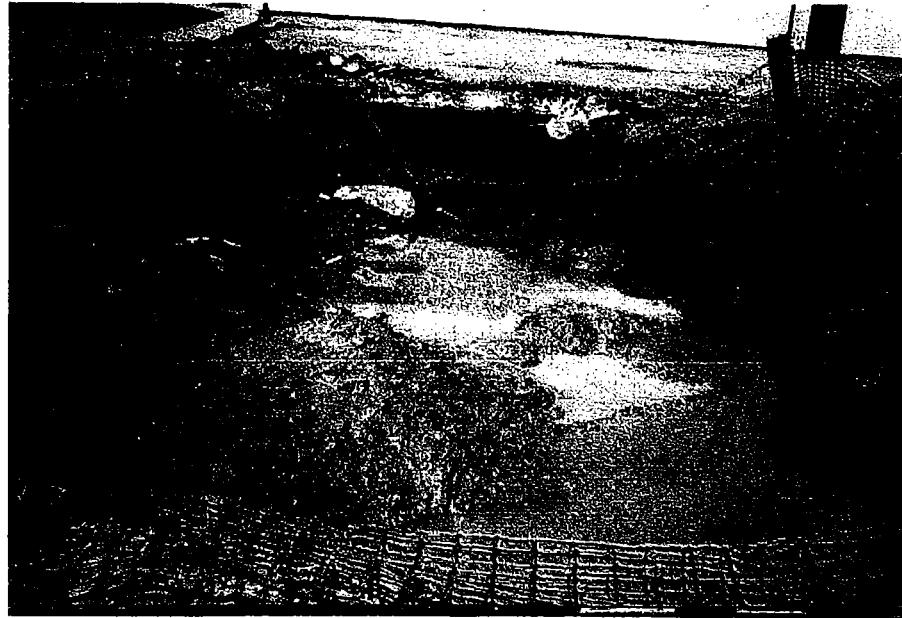
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

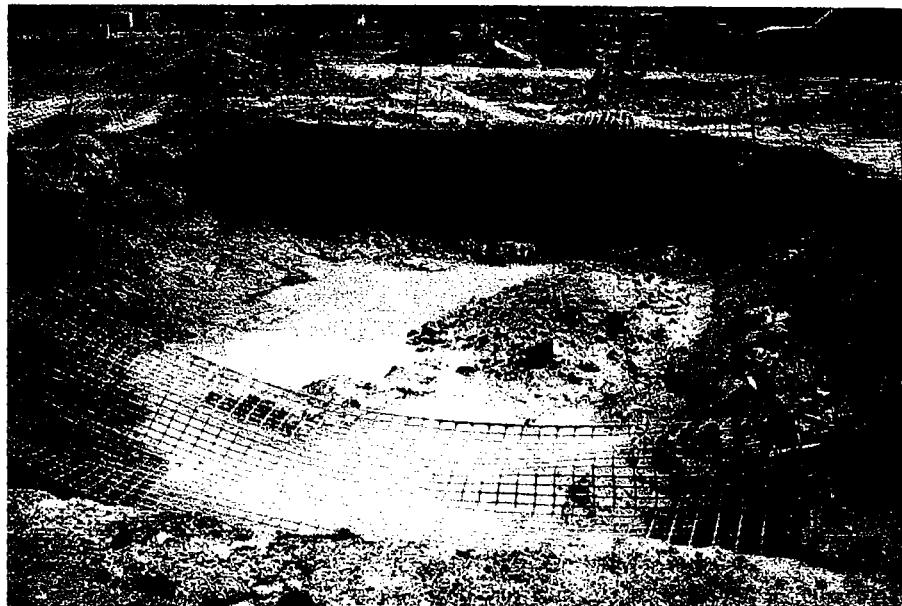


Daniel K. Wright
Laboratory Manager

APPENDIX C PHOTOGRAPHS



NORTHERN PORTION OF EXCAVATION
REMEDIATED



SOUTHERN PORTION OF EXCAVATION
REMEDIATED



**SMC ENVIRONMENTAL
SERVICES GROUP**
Engineers, Managers, Scientists & Planners
VALLEY FORGE, PA.