

U.S. Army Garrison
Fort Monmouth, New Jersey

**Underground Storage Tank
Closure Report**

*Main Post – (former) Building 692
Sherrill Ave.*

NJDEP UST Registration No. 81533-110

February 2008

UNDERGROUND STORAGE TANK REPORT

**MAIN POST – (FORMER) BUILDING 692
NJDEP UST REGISTRATION NO. 81533-110**

FEBRUARY 2008

PREPARED FOR:

**U.S. ARMY GARRISON, FORT MONMOUTH, NJ
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703**

PROJECT NO. 06-34950

PREPARED BY:

**TECOM-VINNELL SERVICES, INC.
P.O. BOX 60
FT. MONMOUTH, NJ 07703**

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EXECUTIVE SUMMARY

UST Closure

A single wall steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) guidelines on June 1, 1990. The UST was located on the southwest side of (former) Building 692 in the Main Post area of Fort Monmouth. UST No. 81533-110 was a 1,000-gallon tank containing No. 2 heating oil.

Site Assessment

This site assessment was performed by TVS personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*.

During the time of UST removal, no closure soil samples were collected. Soil sampling was not required at the time. However, in order to confirm that the tank did not leak, this subsurface investigation was conducted. On January 27, 2006, a Geoprobe was utilized to collect soil samples 692-N, 692-C, 692-S and 692-C (groundwater) from a total of three (3) locations along the tank centerline bottom. All soil samples were analyzed for total petroleum hydrocarbons (TPH). Groundwater was encountered at approximately eight (8.0) feet below surface grade in the borings. A sample of it was collected and analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

Findings

The closure soil samples collected from the location associated with UST No. 81533-110, contained TPH concentrations below the NJDEP health based criterion of 10,000 milligrams per kilogram (mg/kg) for total organic contaminants (N.J.A.C. 7:26E and revisions dated February 3, 1994). All soil samples contained TPH concentrations of Not Detected.

Conclusions and Recommendations

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants are not present in the location of the UST. A groundwater sample, analyzed for volatile organic analysis and semi-volatile organic analysis, did contain several compounds above the analytical method detection limits. Tetrachloroethene, generally not associated with No. 2 heating oil, was detected in the groundwater sample above the NJDEP Class II Ground Water Quality Criteria. Elevated background levels of this compound exist in several monitoring wells close to where the UST groundwater sample was collected. These elevated levels may be attributed to the near by landfill (M 8).

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-110 at Building 692.

1.0 UNDERGROUND STORAGE TANK CLOSURE SOIL SAMPLING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 81533-110, was closed at (former) Building 692 of the Main Post at the U.S. Army Garrison, Fort Monmouth, New Jersey. Refer to site location map on Figure 1. This report presents the results of soil and groundwater sampling analysis to confirm that the tank did not leak. The UST was a 1,000-gallon, single-wall steel tank containing No. 2 heating oil for residential use. The UST was installed in 1967 and the removal was done on June 1, 1990. An archived letter detailing the removal procedures, a copy of Site Assessment Compliance Statement and the NJDEP UST Site Investigation Report Form are included in Appendix A.

This UST Closure Report has been prepared by TVS to assist the U.S. Army Garrison DPW in complying with the NJDEP - Underground Storage Tanks regulations. The applicable NJDEP regulations at the date of closure were the *Closure of Underground Storage Tank Systems* (N.J.A.C. 7:14B-9 et seq. December, 1987 and revisions dated April 20, 2003).

This report was prepared using information required by the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) (*Technical Requirements*). Section 1 of this UST Closure Report provides a summary of the UST site. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in Section 3 of this report.

1.2 SITE DESCRIPTION

(Former) Building 692, Sherrill Ave., was located in the central portion (600 Area) of the Main Post of Fort Monmouth, as shown on Figure 1. UST No. 81533-110 was located on the southwest side of Building 692.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the 600 Area. 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, sand 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 (Zapeczka, 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 thicknesses 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 Zapeczka, 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 (e.g., streams, lakes)

Due to the fluvial nature of the overburden deposits (e.g., 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 692 was located approximately 250 feet south of Parker's Creek, the nearest water body, which flows into the Shrewsbury River. Based on the Main Post topography, the groundwater flow in the area of (former) Building 692 is anticipated to be to the north.

1.3 HEALTH AND SAFETY

Work site health and safety hazards were minimized during all site investigation activities. All areas which posed a vapor hazard were monitored by a qualified individual utilizing a calibrated photo-ionizer detector : Thermo Instruments Organic Vapor Monitor (OVM) -- Model #580-B. The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA. All work areas were properly vented to insure that there were no contaminants present in the breathing zone above permissible exposure limits (PEL's).

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S. Army DPW personnel. All analyses were performed and reported by Fort Monmouth Environmental Testing Laboratory, a NJDEP-certified testing laboratory. All sampling was performed by a NJDEP Certified Subsurface Evaluator according to the methods described in the NJDEP Field Sampling Procedures Manual (1992). Sampling frequency and parameters analyzed complied with the NJDEP document *Technical Requirements for Site Remediation, 7:26E-3.9* (December 17, 2002 and revisions dated February 3, 2003) which was the applicable regulation at the date of the investigation. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Assessment Activities.

- Ft. Monmouth Directorate of Public Works-Environmental Division
Contact Person: Joseph Fallon
Phone Number: (732) 532-6923
- Subsurface Evaluator: Frank Accorsi
Employer: TECOM-Vinnell Services, Inc. (TVS)
Phone Number: (732) 532-5241
NJDEP License No.: 0010042
TVS - NJDEP License No.: US252302
- Analytical Laboratory: Fort Monmouth Environmental Testing Laboratory
Contact Person: Dan Wright
Phone Number: (732) 532-4359
NJDEP Laboratory Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

Field screening of the soils was performed by a NJDEP certified Subsurface Evaluator using an OVM and visual observations to identify potentially contaminated material of which none were found.

2.3 SOIL SAMPLING

On January 26, 2006, closure soil samples 692-N, 692-C and 692-S were collected from a total of three (3) locations along the tank centerline bottom of the UST. Groundwater was encountered at approximately eight (8.0) feet below surface grade in the borings. All soil samples were analyzed for TPH. A soil sample location map is provided on Figure 2.

The site assessment was performed by TVS personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* and the NJDEP *Field Sampling Procedures Manual*. A summary of sampling activities including parameters analyzed is provided on Table 1. The soil samples were collected into laboratory prepared glassware using properly decontaminated stainless steel trowels. After collection, the samples were immediately placed on ice in a cooler and delivered to Fort Monmouth Environmental Testing Laboratory for analysis.

2.4 GROUNDWATER SAMPLING

On January 26, 2006, sample 692-C groundwater was collected from soil borehole 692-C to assess the groundwater quality in the location of the tank. A temporary piezometer was installed in the borehole for sample collection. The sample was collected into laboratory prepared glassware using a disposable teflon bailer. The sample was analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

Closure soil samples were collected from a total of three locations on January 26, 2006 to evaluate soil conditions in the location of the UST. All samples were analyzed for TPH. The closure soil sample results were compared to the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants (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 on Table 2. The analytical data package, including associated quality control data, is provided in Appendix B.

Closure soil samples collected on January 26, 2006 from UST 81533-110 contained no concentrations of TPH above the method detection limits.

3.2 GROUNDWATER SAMPLING RESULTS

One groundwater sample was collected via temporary piezometer installed in soil borehole 692-C. There were several compounds detected above the method detection limits for the volatile organic analysis. The following compounds were detected above the method detection limits; tetrachloroethene at 3.58 ug/L, 1,3-dichlorobenzene at 0.45 ug/L, 1,4-dichlorobenzene at 0.53 ug/L and 1,2-dichlorobenzene at 0.72 ug/L. Tetrachloroethene was above the NJDEP Class II Ground Water Quality Criteria of 1.0 ug/L. There were no compounds detected above the method detection limits for the semi-volatile organic analysis.

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all soil samples collected from the UST closure assessment at UST No. 81533-110 were below the regulatory limits.

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion for total organic contaminants of 10,000 mg/kg are not present at the location of UST No. 81533-110.

Tetrachloroethene, along with the several other volatile organic compounds detected in the groundwater are generally not associated with No. 2 heating oil that was stored in the UST. The elevated levels of Tetrachloroethene may be attributed to the fact that groundwater sample was taken close to the edge of landfill M-8. Several existing monitoring wells in this vicinity exhibit elevated levels of this compound.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-110 at (former) Building 692.

FIGURES

FIG 1

FIG 2

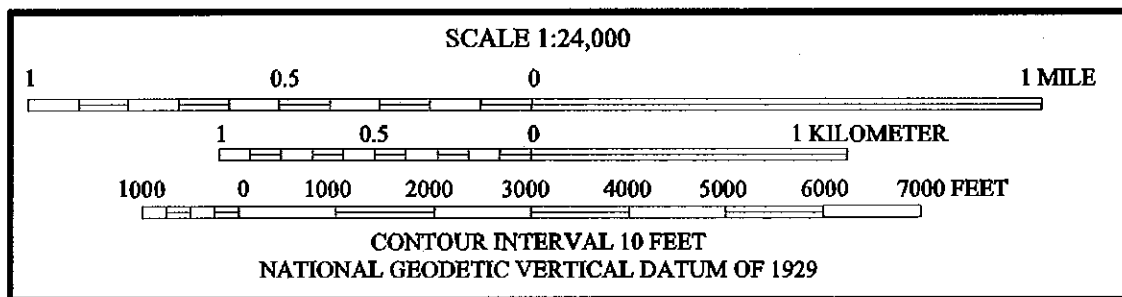
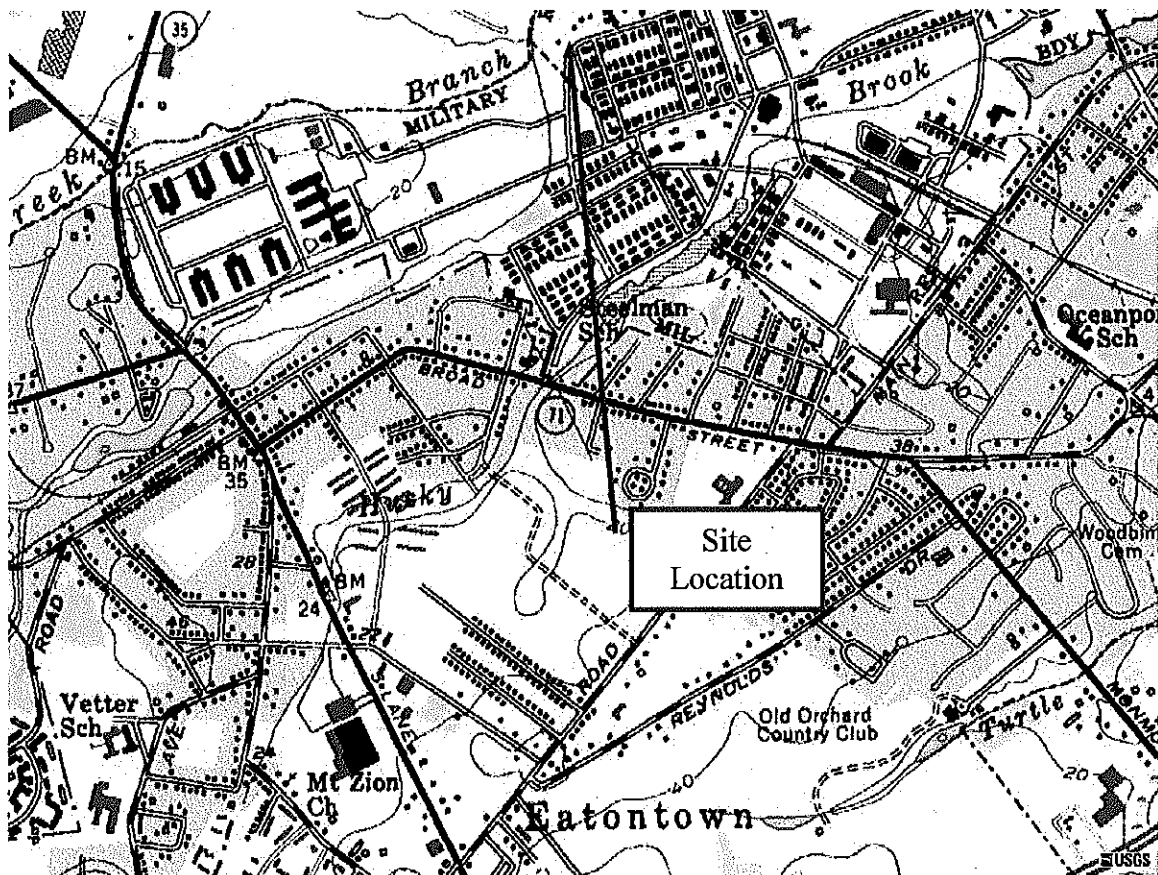
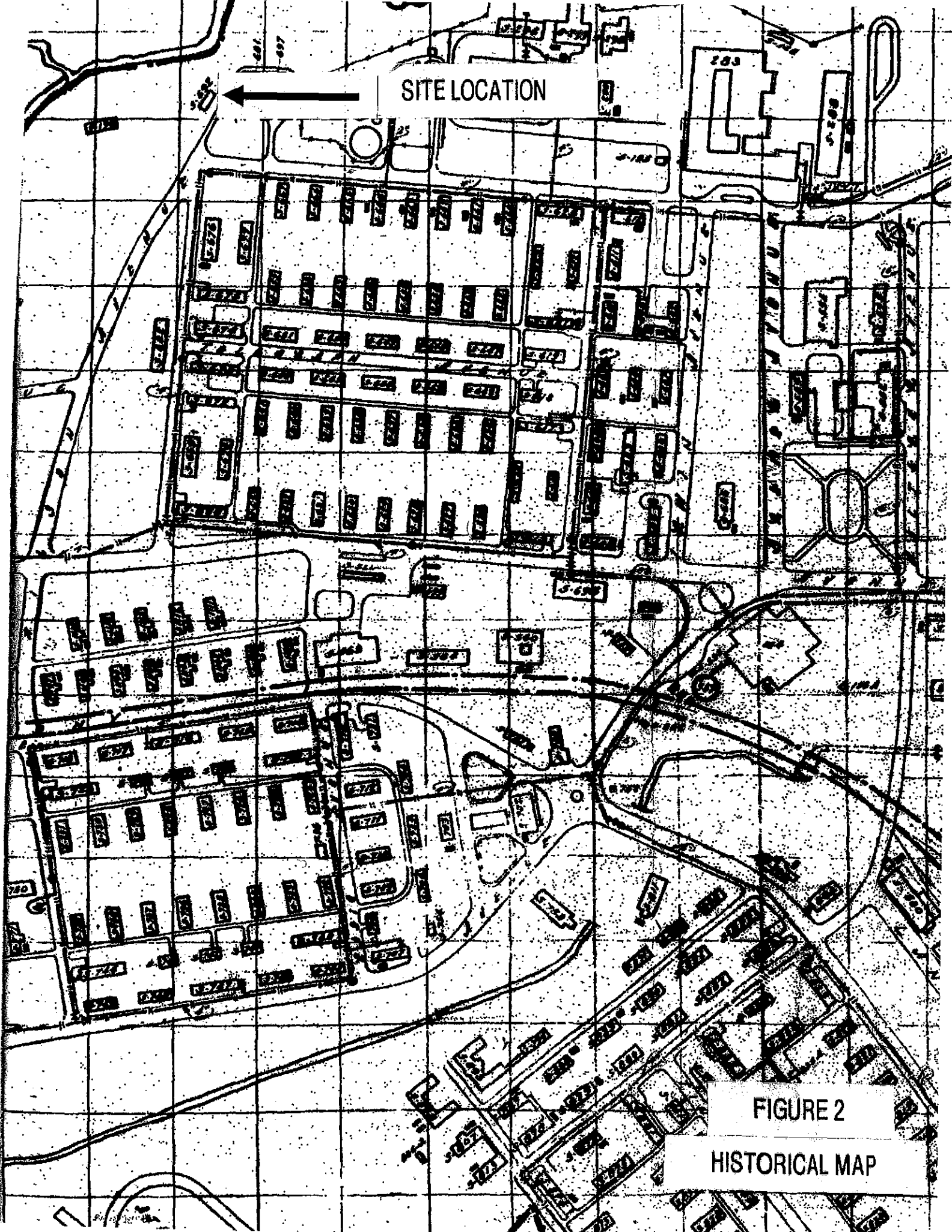


FIGURE 1

SITE LOCATION MAP
BUILDING 692
UST NO. 81533-110
FT. MONMOUTH, NJ

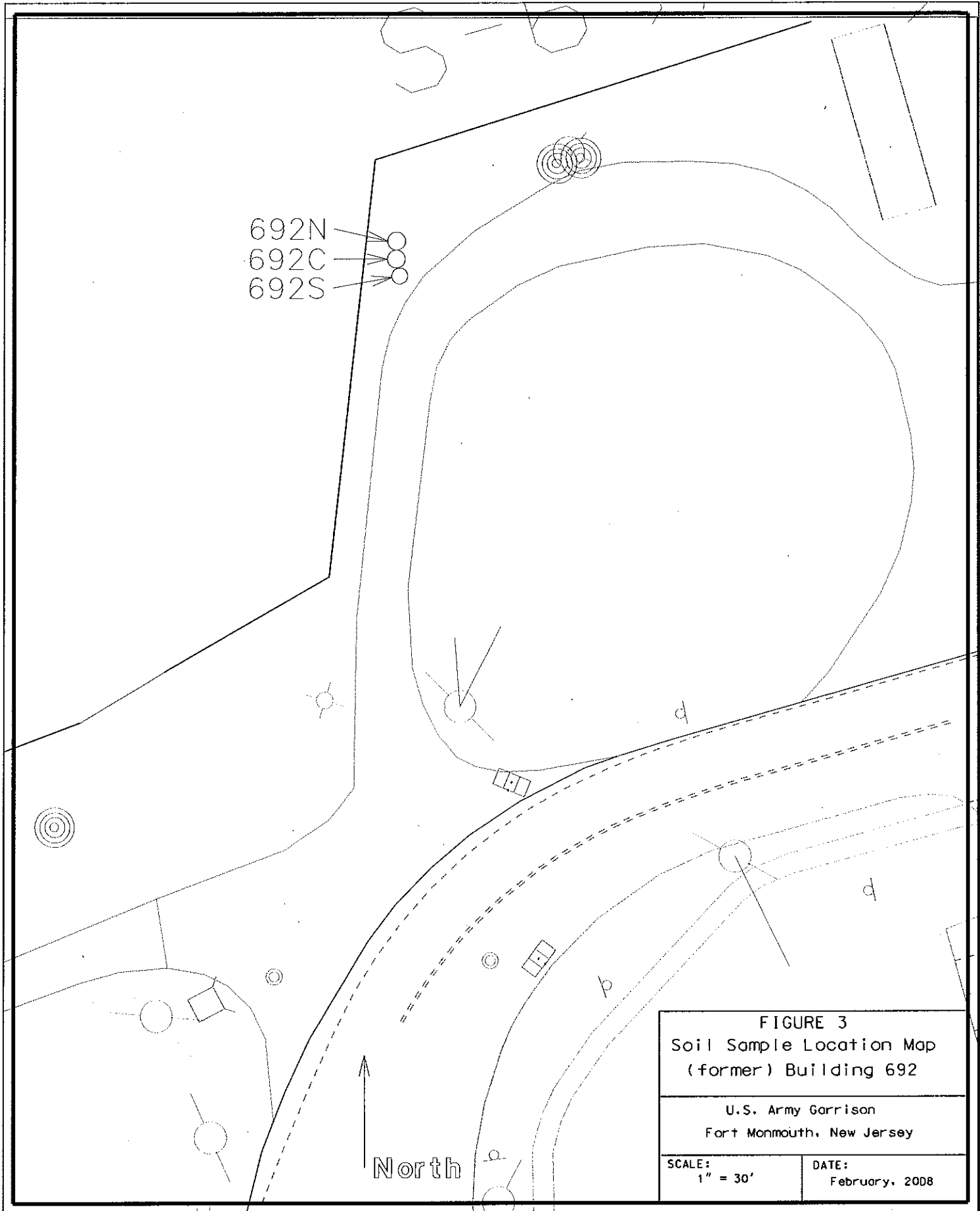
SOURCE: USGS 7½-MINUTE SERIES (TOPOGRAPHIC)
LONG BRANCH QUADRANGLE, NEW JERSEY, 1981.



SITE LOCATION

FIGURE 2

HISTORICAL MAP



TABLES

TABLE 1

SUMMARY OF LABORATORY ANALYSIS

FT. MONMOUTH, (former) BUILDING 692, UST No. 81533-110
26 January 2006

| SAMPLE ID | LABORATORY SAMPLE ID | SAMPLE DATE | SAMPLE MATRIX | ANALYTICAL PARAMETER | ANALYTICAL METHOD |
|-------------------|----------------------|-------------|---------------|----------------------|-------------------|
| 692-N | 6005601 | 26-Jan-06 | SOIL | TPH | OQA-QAM-25 |
| 692-C | 6005602 | 26-Jan-06 | SOIL | TPH | OQA-QAM-25 |
| 692-S | 6005604 | 26-Jan-06 | SOIL | TPH | OQA-QAM-25 |
| 692-Duplic. | 6005603 | 26-Jan-06 | SOIL | TPH | OQA-QAM-25 |
| 692-C-Groundwater | 6005605 | 26-Jan-06 | AQUEOUS | VOA, SVOA | SW-846, EPA 625 |
| Trip Blank | 6005606 | 26-Jan-06 | AQUEOUS | VOA | SW-846 |
| Trip Blank | 6005607 | 26-Jan-06 | METHANOL | VOA | SW-846 |

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

VOA = Volatile Organic Analysis, EPA SW-846 Method 8260

SVOA = Semi-Volatile Organic Analysis in Water, EPA Method 625

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS-SOIL

FT. MONMOUTH, (former) BUILDING 692, UST No. 81533-110

26 January 2006

TOTAL PETROLEUM HYDROCARBONS

| SAMPLE ID | LABORATORY SAMPLE ID | SAMPLE LOCATION | SAMPLE DEPTH (in feet) | MATRIX | TPH RESULTS mg/kg |
|-------------|-------------------------|-----------------|------------------------------|--------|-------------------------|
| 692-N | 6005601 | NORTH END UST | 7.5 - 8.0 | Soil | ND |
| 692-C | 6005602 | CENTER UST | 7.5 - 8.0 | Soil | ND |
| 692-S | 6005604 | SOUTH END UST | 7.5 - 8.0 | Soil | ND |
| 692-Duplic. | 6005603 | SOUTH END UST | 7.5 - 8.0 | Soil | ND |

ABBREVIATIONS:

mg/kg = milligrams per kilogram = parts per million

ND = Compound Not Detected

NA = Compound Not Analyzed

*= Further Analyzed for Volatile Organic Compounds

Notes:

Gray shading indicates exceedance of NJDEP

health based criterion of 10,000 ppm total organic contaminants

TABLE 3

SUMMARY OF LABORATORY ANALYTICAL RESULTS- GROUNDWATER

FT. MONMOUTH, (former) BUILDING 692, UST No. 81533-110

26 January 2006

VOLATILE ORGANIC COMPOUNDS

| SAMPLE ID | LAB SAMPLE ID | Tetrachlo- roethene | 1,3-Dichlo- robenzene | 1,4-Dichlo- robenzene | 1,2-Dichlo- robenzene |
|------------------------------|----------------------------------|------------------------|--------------------------|--------------------------|--------------------------|
| UNITS | | ug/L | ug/L | ug/L | ug/L |
| 692-C Groundwater | 6005605 | 3.58 | 0.45 | 0.53 | 0.72 |
| NJDEP Criteria | Ground Water Quality Criteria | 1.0 | 600 | 75 | 600 |

ABBREVIATIONS:

ug/L = Micrograms Per Liter = parts per billion

ND = Compound Not Detected

NA = Compound Not Analyzed

NLE = No Limit Established

Notes:

Gray shading indicates exceedance of NJDEP
Class II Ground Water Quality Criteria

APPENDIX A
CERTIFICATIONS



STATE OF NEW JERSEY
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Bureau of Underground Storage Tanks
 CN-029, Trenton, NJ 08625

FOR State Use Only
 Date Rec'd _____
 Auth _____
 Routing _____
 UST NO. _____

SITE ASSESSMENT COMPLIANCE STATEMENT

Supplement to the New Jersey Standard Reporting Form
 (Complete for ALL regulated UST abandonments or removals)

Within ninety (90) days of completing the UST closure of any State or Federally-regulated tank, the owner or operator must submit this completed form to the NJDEP Bureau of Underground Storage Tanks. If the facility is located in one of the counties listed on the back, a copy of this form must also be sent to the Health Agency indicated.

The owner or operator of any Federally-regulated tank must also comply with the following:

40 CFR Part 280.72 Assessing the site at closure or change-in-service

"(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release."

FACILITY U.S. Army Fort Monmouth UST # 0081533 Tank No. _____

- Check off the following items as appropriate for the site.
- The UST facility is only regulated by State law, therefore a site assessment is not mandatory. 58, 88, 95, 104, 110, 113, 146, 148, 158, 163.
 - The UST facility is regulated by Federal law and a site assessment was conducted.

- The results of the site assessment indicate:
- There was NO release from the UST system.
 - There was a release from the UST system and it was reported to the DEP Environmental Hotline (609-292-7172).

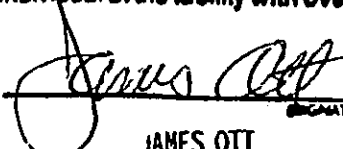
NOTE: The results of the site assessment are not to be submitted to the DEP or Health Agency unless requested to do so. The results are to be available for inspection at the UST facility.

Questions can be directed to the Bureau at (609) 984-3156.

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

SACS-2,1/89



 JAMES OTT
 Acting Director
 Director, Engineering and Housing

 (Title)

Date 22 NOV 1991

Site Remediation Program
UST Site Remedial Investigation Report

A. Facility Name: Building 692
Facility Street Address: 692 Sherrill Ave.
Municipality: Oceanport County: Monmouth
Block: NA Lot(s): NA Telephone Number: 732-532-6223

B. Owner (RP)'s Name: U.S. Army Garrison-Dept. of Public Works
Street Address: 167 Riverside Ave. City: Ft. Monmouth
State: NJ Zip: 07703 Telephone Number: 732-532-6223

C. (Check as appropriate)
 Site Investigation Report (SIR) \$500 Fee
 Remedial Investigation Report (RIR) \$1000 Fee

D. (Complete all that apply)
Assigned Case Manager: _____
UST Registration Number: 81533-110 (7 digits)
• Incident Report Number: _____ (10 or 12 digits)
• Tank Closure Number C(N)9 - C 9- C9 - (7 characters)

E. Certification by the Subsurface Evaluator:
The attached report conforms to the specific reporting requirements of N.J.A.C. 7:26E..... Yes No
Name: Frank Accorsi Signature: _____ UST Cert. No.: 0010042
Firm: Tecom-Vinnell Services, Inc. Firm's UST Cert. Number: US252302
Firm Address: P.O. Box 60 City: Ft. Monmouth
State: NJ Zip: 07724 Telephone Number: 732-532-5241

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 5 8: 10A-2 1 et seq.)

F. Certification by the Responsible Party(ies) of the Facility:

The following certification shall be signed [according to the requirements of N.J.A.C. 7: 14B-1.7(b)]as follows:
1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Name (Print or Type): _____ Title: _____
Signature: _____
Company Name: _____ Date: _____

APPENDIX B

**SOIL AND GROUNDWATER
ANALYTICAL DATA PACKAGE**

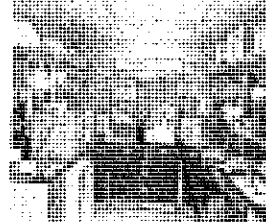
FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: BLDG. 692

Bldg. 692

| Field Sample Location | Laboratory Sample ID# | Matrix | Date and Time of Collection | Date Received |
|-----------------------|-----------------------|----------|-----------------------------|---------------|
| 692N 7.5-8.0' | 6005601 | Soil | 26-Jan-06 11:21 | 01/26/06 |
| 692C 7.5-8.0' | 6005602 | Soil | 26-Jan-06 11:51 | 01/26/06 |
| Duplicate | 6005603 | Soil | 26-Jan-06 12:17 | 01/26/06 |
| 692S 7.5-8.0' | 6005604 | Soil | 26-Jan-06 12:17 | 01/26/06 |
| 692C GW | 6005605 | Aqueous | 26-Jan-06 12:28 | 01/26/06 |
| Trip Blank | 6005606 | Aqueous | 26-Jan-06 | 01/26/06 |
| Trip Blank | 6005607 | Methanol | 26-Jan-06 | 01/26/06 |

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15, TPHC, % SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS



3-8-06
Daniel Wright/Date
Laboratory Director

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**CHAIN
OF
CUSTODY**



Fort Monmouth Environmental Testing Laboratory

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

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

| | | | | | | | | | | | | | |
|---|-----------------|--------------------------------|---|---------------------|--|----------|------------|--------------------------|----------|--|--|-------------------------------|-------------|
| Customer: <u>John McCarthy</u> | | Project No: <u>00-34880</u> | | Analysis Parameters | | | | | | | | Comments: | |
| Phone: <u>x 26224</u> | | Location: <u>692</u> | | TPH | VO+10 | BNF15 | | | | | | | |
| () DERA () OMA () Other: _____ | | (Former UST) | | | | | | | | | | | |
| Samplers Name / Company: <u>/TVS</u> | | | | Sample # | | | | | | | | Remarks / Preservation Method | |
| LIMS/Work Order # | Sample Location | Date | Time | Type | bottles | | | | | | | | |
| <u>60050 01</u> | <u>692N</u> | <u>7.5-8.0</u> | <u>1/26/06</u> | <u>1121</u> | <u>Soil</u> | <u>2</u> | <u>X</u> | | | | | | <u>4459</u> |
| <u>02</u> | <u>692C</u> | <u>7.5-8.0</u> | | <u>1151</u> | <u>Soil</u> | <u>2</u> | <u>X</u> | | | | | | <u>4460</u> |
| <u>03</u> | <u>DUPE</u> | | | <u>1217</u> | <u>Soil</u> | <u>2</u> | <u>X</u> | | | | | | <u>4461</u> |
| <u>04</u> | <u>692S</u> | <u>7.5-8.0</u> | | <u>1217</u> | <u>Soil</u> | <u>2</u> | <u>X</u> | | | | | | <u>4462</u> |
| <u>05</u> | <u>692C</u> | <u>GW</u> | | <u>1228</u> | <u>AQ</u> | <u>3</u> | | <u>X</u> | <u>X</u> | | | | |
| <u>06</u> | <u>TRIP</u> | | | <u>-</u> | <u>AQ</u> | <u>2</u> | | <u>X</u> | | | | | |
| <u>07</u> | <u>TRIP</u> | | | <u>-</u> | <u>Mtl</u> | <u>1</u> | | | | | | | <u>4458</u> |
| Relinquished by (signature): <u>George Boya</u> | | Date/Time: <u>1-26-06 1500</u> | Received by (signature): <u>[Signature]</u> | | 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: () Full, (X) Reduced, () Standard, () Screen / non-certified, () EDD | | | | | Remarks: <u>VO+10 on 25% 71000 PPM TPH</u> | | | | | | | | |
| Turnaround time: (X) Standard 3 wks, () Rush Days, () ASAP Verbal ___ Hrs. | | | | | | | | | | | | | |

SAMPLE RECEIPT FORM

Date Received: 1-26-06

Work Order ID#: C0050

Site/Proj. Name: Ady 692/US

Cooler Temp (°C): 4.0

Received By: J. Verma
(Print name)

Sign: J. Verma

Check the appropriate box

1. Did the samples come in a cooler? yes no n/a
2. Were samples rec'd in good condition? yes no
3. Was the chain of custody filled out correctly and legibly? yes no
4. Was the chain of custody signed in the appropriate place? yes no
5. Did the labels agree with the chain of custody? yes no
6. Were the correct containers/preservatives used? yes no
7. Was a sufficient amount of sample supplied? yes no
8. Were air bubbles present in VOA vials? yes no n/a
9. Were samples received on ice? yes no
10. Were analyze-immediately tests perform within 15 minutes yes no n/a

Fill out the following table for each sample bottle

| Lims ID | pH | Preservative | Sample ID | pH | Preservative |
|--------------------|----|--------------|-----------|----|--------------|
| <u>C0050/56 L2</u> | | <u>HCl</u> | | | |
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Comments: _____

Change of Chain of Custody

Lab Project ID#: 60057
 Date Received: 1/26/06
 Requested by: (print) Homan
 Turnaround Time: 1 Std

Site/Project Name: Bldg 614 UST
 Date of Change: 2/3/06
 Sign: [Signature]

- 1. Were the correct containers and/or preservatives used for the tests indicated? Yes No
- 2. Was sufficient amount of sample sent for the tests indicated? Yes No
- 3. Are samples within holding time for new analysis? Yes No
- 4. Was the change documented in the receipt logbook? Yes No

Received by: (print) _____ Sign: _____

| Sample ID# | New Analysis | Sample ID# | New Analysis |
|------------|--------------|------------|--------------|
| 6005702 | VOA +15 | | |
| + | | | |
| 6005607 | TB VOA +15 | | |
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Comments: _____

Former UST 692 Sample Location GPS Positions

US State Plane 1983 New Jersey (NY East) 2900
NAD 1983 (Conus)
Geoid 96 (Conus)

(In US Survey Feet)

| Position | Northing (Y Coord.) | Easting (X Coord.) |
|-----------------|-----------------------------|----------------------------|
| 692N | 539970.021 | 617777.818 |
| 692C | 539965.575 | 617777.761 |
| 692S | 539961.407 | 617778.575 |

METHOD 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 SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Methanol

A 10-gram volume of soil is combined with 25-ml of Methanol and surrogates in the field. Internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

EPA Method 625

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 is concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

NJDEP Method OQA-QAM-025 10/97
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml 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 1-ml auto-sampler 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 moisture, sample weight and concentration.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 60056

Site: UST
Bldg. 692

| | Date | Hold Time |
|-----------------------|----------|-----------|
| Date Sampled | 01/26/06 | NA |
| Receipt/Refrigeration | 01/26/06 | NA |

Extractions

| | | |
|---------|----------|---------|
| 1. BN | 01/27/06 | 7 days |
| 2. TPHC | 02/01/06 | 14 days |

Analyses

| | | |
|---------|-------------|---------|
| 1. VOA | 02/07,08/06 | 14 days |
| 2. BN | 01/30/06 | 40 days |
| 3. TPHC | 02/02/06 | 40 days |

000010

**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) 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: yes
 - a. VOA Fraction Acetone 3.55 ug/L
 - 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

If not met, were the calculations checked and the results qualified as "estimated"?

9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria NO

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

 - a. VOA Fraction Various out spec from
 - b. B/N Fraction benzidine rec. low
 - c. Acid Fraction NA

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 NA _____

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: 3-8-06

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

Indicate
Yes, No, N/A

- 1. Method Detection Limits Provided yes
- 2. Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank

_____ yes
- 3. Matrix Spike Results Summary Meet Criteria
(If not met, list the sample and corresponding recovery which falls outside the acceptable range)

_____ yes
- 4. Duplicate Results Summary Meet Criteria

_____ yes
- 5. IR Spectra submitted for standards, blanks and samples NA
- 6. Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted yes
- 7. Analysis holding time met
(If not met, list number of days exceeded for each sample)

_____ yes

Additional comments: _____

Laboratory Manager:  Date: 3-8-06

**VOLATILE
ORGANICS
(AQUEOUS)**

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

- U:** The compound was analyzed for but not detected.
- B:** Indicates that the compound was found in the associated method blank as well as in the sample.
- J:** Indicates an estimated value. This flag is used:
- (1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
 - (2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.
- D:** This flag is used to identify all compounds (target or TIC) that required a dilution.
- E:** Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.
- N:** This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

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

Data File VB021635.D
 Operator Skelton
 Date Acquired 7 Feb 2006 8:34 pm

Sample Name MB 07Feb2006
 Field ID MB 07Feb2006
 Sample Multiplier 1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | RL | Qualifiers |
|------------|---------------------------|-------|----------|--------------|--------------------------|-----------|------------|------------|
| 107028 | Acrolein | | | not detected | 5 | 2.01 ug/L | 5.00 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 5 | 1.23 ug/L | 5.00 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | 100 | 5.70 ug/L | 10.00 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | 70 | 0.21 ug/L | 2.00 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | 20000 | 0.26 ug/L | 2.00 ug/L | |
| 75718 | Dichlorodifluoromethane | | | not detected | 1000 | 0.20 ug/L | 2.00 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | nle | 0.24 ug/L | 2.00 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 1 | 0.23 ug/L | 2.00 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 0.26 ug/L | 2.00 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 0.29 ug/L | 2.00 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | 2000 | 0.23 ug/L | 2.00 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 1 | 0.19 ug/L | 2.00 ug/L | |
| 67-64-1 | Acetone | 11.94 | 45398 | 3.55 ug/L | 6000 | 0.36 ug/L | 2.00 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | 700 | 0.24 ug/L | 2.00 ug/L | |
| 75-09-2 | Methylene Chloride | | | not detected | 3 | 0.21 ug/L | 2.00 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.24 ug/L | 2.00 ug/L | |
| 75-34-3 | 1,1-Dichloroethane | | | not detected | 50 | 0.24 ug/L | 2.00 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | 7000 | 0.20 ug/L | 2.00 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.26 ug/L | 2.00 ug/L | |
| 156-59-2 | cis-1,2-Dichloroethene | | | not detected | 70 | 0.20 ug/L | 2.00 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 70 | 0.22 ug/L | 2.00 ug/L | |
| 71-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.20 ug/L | 2.00 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.23 ug/L | 2.00 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.26 ug/L | 2.00 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.23 ug/L | 2.00 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | nle | 0.35 ug/L | 2.00 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.26 ug/L | 2.00 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | 1 | 0.25 ug/L | 2.00 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.28 ug/L | 2.00 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.20 ug/L | 2.00 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.43 ug/L | 2.00 ug/L | |
| 124-48-1 | Dibromochloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 50 | 0.28 ug/L | 2.00 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.27 ug/L | 2.00 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 0.43 ug/L | 4.00 ug/L | |
| 95-47-6 | o-Xylene | | | not detected | nle | 0.21 ug/L | 2.00 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.21 ug/L | 2.00 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.27 ug/L | 2.00 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 1 | 0.45 ug/L | 2.00 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.36 ug/L | 2.00 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.35 ug/L | 2.00 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.45 ug/L | 2.00 ug/L | |

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: MB 07Feb2006
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021635.D
Level: (low/med) LOW Date Received: 1/26/2006
% Moisture: not dec. _____ Date Analyzed: 2/7/2006
GC Column: RTX502 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: 1

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|---------------------------|-------|------------|----|
| 1. 000079-20-9 | Acetic acid, methyl ester | 12.44 | 21 | JN |

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

Data File VB021641.D
 Operator Skelton
 Date Acquired 8 Feb 2006 12:37 am

Sample Name 6005606
 Field ID Trip Blank
 Sample Multiplier 1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | RL | Qualifiers |
|------------|---------------------------|-------|----------|--------------|--------------------------|-----------|------------|------------|
| 107028 | Acrolein | | | not detected | 5 | 2.01 ug/L | 5.00 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 5 | 1.23 ug/L | 5.00 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | 100 | 5.70 ug/L | 10.00 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | 70 | 0.21 ug/L | 2.00 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | 20000 | 0.26 ug/L | 2.00 ug/L | |
| 75718 | Dichlorodifluoromethane | | | not detected | 1000 | 0.20 ug/L | 2.00 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | nle | 0.24 ug/L | 2.00 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 1 | 0.23 ug/L | 2.00 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 0.26 ug/L | 2.00 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 0.29 ug/L | 2.00 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | 2000 | 0.23 ug/L | 2.00 ug/L | |
| 75-35-4 | 1,1-Dichloroethene | | | not detected | 1 | 0.19 ug/L | 2.00 ug/L | |
| 67-64-1 | Acetone | | | not detected | 6000 | 0.36 ug/L | 2.00 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | 700 | 0.24 ug/L | 2.00 ug/L | |
| 75-09-2 | Methylene Chloride | 11.66 | 49080 | 2.09 ug/L | 3 | 0.21 ug/L | 2.00 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.24 ug/L | 2.00 ug/L | |
| 75-34-3 | 1,1-Dichloroethane | | | not detected | 50 | 0.24 ug/L | 2.00 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | 7000 | 0.20 ug/L | 2.00 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.26 ug/L | 2.00 ug/L | |
| 156-59-2 | cis-1,2-Dichloroethene | | | not detected | 70 | 0.20 ug/L | 2.00 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 70 | 0.22 ug/L | 2.00 ug/L | |
| 71-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.20 ug/L | 2.00 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.23 ug/L | 2.00 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.26 ug/L | 2.00 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.23 ug/L | 2.00 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | nle | 0.35 ug/L | 2.00 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.26 ug/L | 2.00 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | 1 | 0.25 ug/L | 2.00 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.28 ug/L | 2.00 ug/L | |
| 127-18-4 | Tetrachloroethene | | | not detected | 1 | 0.20 ug/L | 2.00 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.43 ug/L | 2.00 ug/L | |
| 124-48-1 | Dibromochloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 50 | 0.28 ug/L | 2.00 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.27 ug/L | 2.00 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 0.43 ug/L | 4.00 ug/L | |
| 95-47-6 | o-Xylene | | | not detected | nle | 0.21 ug/L | 2.00 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.21 ug/L | 2.00 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.27 ug/L | 2.00 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 1 | 0.45 ug/L | 2.00 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 0.36 ug/L | 2.00 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.35 ug/L | 2.00 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.45 ug/L | 2.00 ug/L | |

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: 6005606
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021641.D
Level: (low/med) LOW Date Received: 1/26/2006
% Moisture: not dec. _____ Date Analyzed: 2/8/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|---------------------------|-------|------------|----|
| 1. 000079-20-9 | Acetic acid, methyl ester | 12.46 | 12 | JN |

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

Data File VB021640.D
 Operator Skelton
 Date Acquired 7 Feb 2006 11:57 pm

Sample Name 6005605
 Field ID 692C GW
 Sample Multiplier 1

| CAS# | Compound Name | R.T. | Response | Result | Regulatory Level (ug/l)* | MDL | RL | Qualifiers |
|------------|---------------------------|-------|----------|--------------|--------------------------|-----------|------------|------------|
| 107028 | Acrolein | | | not detected | 5 | 2.01 ug/L | 5.00 ug/L | |
| 107131 | Acrylonitrile | | | not detected | 5 | 1.23 ug/L | 5.00 ug/L | |
| 75650 | tert-Butyl alcohol | | | not detected | 100 | 5.70 ug/L | 10.00 ug/L | |
| 1634044 | Methyl-tert-Butyl ether | | | not detected | 70 | 0.21 ug/L | 2.00 ug/L | |
| 108203 | Di-isopropyl ether | | | not detected | 20000 | 0.26 ug/L | 2.00 ug/L | |
| 75718 | Dichlorodifluoromethane | | | not detected | 1000 | 0.20 ug/L | 2.00 ug/L | |
| 74-87-3 | Chloromethane | | | not detected | nle | 0.24 ug/L | 2.00 ug/L | |
| 75-01-4 | Vinyl Chloride | | | not detected | 1 | 0.23 ug/L | 2.00 ug/L | |
| 74-83-9 | Bromomethane | | | not detected | 10 | 0.26 ug/L | 2.00 ug/L | |
| 75-00-3 | Chloroethane | | | not detected | nle | 0.29 ug/L | 2.00 ug/L | |
| 75-69-4 | Trichlorofluoromethane | | | not detected | 2000 | 0.23 ug/L | 2.00 ug/L | |
| 75-35-4 | 1,1-Dichloroethane | | | not detected | 1 | 0.19 ug/L | 2.00 ug/L | |
| 67-64-1 | Acetone | | | not detected | 6000 | 0.36 ug/L | 2.00 ug/L | |
| 75-15-0 | Carbon Disulfide | | | not detected | 700 | 0.24 ug/L | 2.00 ug/L | |
| 75-09-2 | Methylene Chloride | 11.67 | 43328 | 1.81 ug/L | 3 | 0.21 ug/L | 2.00 ug/L | |
| 156-60-5 | trans-1,2-Dichloroethene | | | not detected | 100 | 0.24 ug/L | 2.00 ug/L | |
| 75-34-3 | 1,1-Dichloroethane | | | not detected | 50 | 0.24 ug/L | 2.00 ug/L | |
| 108-05-4 | Vinyl Acetate | | | not detected | 7000 | 0.20 ug/L | 2.00 ug/L | |
| 78-93-3 | 2-Butanone | | | not detected | 300 | 0.26 ug/L | 2.00 ug/L | |
| 156-59-2 | cis-1,2-Dichloroethene | | | not detected | 70 | 0.20 ug/L | 2.00 ug/L | |
| 67-66-3 | Chloroform | | | not detected | 70 | 0.22 ug/L | 2.00 ug/L | |
| 71-55-6 | 1,1,1-Trichloroethane | | | not detected | 30 | 0.20 ug/L | 2.00 ug/L | |
| 56-23-5 | Carbon Tetrachloride | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 71-43-2 | Benzene | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 107-06-2 | 1,2-Dichloroethane | | | not detected | 2 | 0.23 ug/L | 2.00 ug/L | |
| 79-01-6 | Trichloroethene | | | not detected | 1 | 0.26 ug/L | 2.00 ug/L | |
| 78-87-5 | 1,2-Dichloropropane | | | not detected | 1 | 0.24 ug/L | 2.00 ug/L | |
| 75-27-4 | Bromodichloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 110-75-8 | 2-Chloroethyl vinyl ether | | | not detected | nle | 0.23 ug/L | 2.00 ug/L | |
| 10061-01-5 | cis-1,3-Dichloropropene | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-10-1 | 4-Methyl-2-Pentanone | | | not detected | nle | 0.35 ug/L | 2.00 ug/L | |
| 108-88-3 | Toluene | | | not detected | 1000 | 0.26 ug/L | 2.00 ug/L | |
| 10061-02-6 | trans-1,3-Dichloropropene | | | not detected | 1 | 0.25 ug/L | 2.00 ug/L | |
| 79-00-5 | 1,1,2-Trichloroethane | | | not detected | 3 | 0.28 ug/L | 2.00 ug/L | |
| 127-18-4 | Tetrachloroethene | 23.47 | 127465 | 3.58 ug/L | 1 | 0.20 ug/L | 2.00 ug/L | |
| 591-78-6 | 2-Hexanone | | | not detected | nle | 0.43 ug/L | 2.00 ug/L | |
| 124-48-1 | Dibromochloromethane | | | not detected | 1 | 0.22 ug/L | 2.00 ug/L | |
| 108-90-7 | Chlorobenzene | | | not detected | 50 | 0.28 ug/L | 2.00 ug/L | |
| 100-41-4 | Ethylbenzene | | | not detected | 700 | 0.27 ug/L | 2.00 ug/L | |
| 1330-20-7 | m+p-Xylenes | | | not detected | nle | 0.43 ug/L | 4.00 ug/L | |
| 95-47-6 | o-Xylene | | | not detected | nle | 0.21 ug/L | 2.00 ug/L | |
| 100-42-5 | Styrene | | | not detected | 100 | 0.21 ug/L | 2.00 ug/L | |
| 75-25-2 | Bromoform | | | not detected | 4 | 0.27 ug/L | 2.00 ug/L | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | | not detected | 1 | 0.45 ug/L | 2.00 ug/L | |
| 541-73-1 | 1,3-Dichlorobenzene | 30.03 | 26148 | 0.45 ug/L | 600 | 0.36 ug/L | 2.00 ug/L | |
| 106-46-7 | 1,4-Dichlorobenzene | 30.20 | 32640 | 0.53 ug/L | 75 | 0.35 ug/L | 2.00 ug/L | |
| 95-50-1 | 1,2-Dichlorobenzene | 31.03 | 0 | 0.72 ug/L | 600 | 0.45 ug/L | 2.00 ug/L | |

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

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
 R.L. = Reporting Limit

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

692C GW

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: UST
 Matrix: (soil/water) WATER Lab Sample ID: 6005605
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021640.D
 Level: (low/med) LOW Date Received: 1/26/2006
 % Moisture: not dec. _____ Date Analyzed: 2/7/2006
 GC Column: RTX502 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: 1

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|---------------------------|-------|------------|----|
| 1. 000079-20-9 | Acetic acid, methyl ester | 12.45 | 21 | JN |

**VOLATILE
ORGANICS
(SOIL)**

VOLATILE ORGANICS ANALYSIS DATA SHEET

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|------------|---------------------------|-----------------|-------|---|
| 107028 | Acrolein | | 1000 | U |
| 107131 | Acrylonitrile | | 1000 | U |
| 75650 | tert-Butyl alcohol | | 1000 | U |
| 1634044 | Methyl-tert-Butyl ether | | 100 | U |
| 108203 | Di-isopropyl ether | | 100 | U |
| 75718 | Dichlorodifluoromethane | | 100 | U |
| 74-87-3 | Chloromethane | | 100 | U |
| 75-01-4 | Vinyl Chloride | | 100 | U |
| 74-83-9 | Bromomethane | | 100 | U |
| 75-00-3 | Chloroethane | | 100 | U |
| 75-69-4 | Trichlorofluoromethane | | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | | 100 | U |
| 67-64-1 | Acetone | | 360 | |
| 75-15-0 | Carbon Disulfide | | 100 | U |
| 75-09-2 | Methylene Chloride | | 100 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | | 100 | U |
| 108-05-4 | Vinyl Acetate | | 100 | U |
| 78-93-3 | 2-Butanone | | 100 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 100 | U |
| 67-66-3 | Chloroform | | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 100 | U |
| 56-23-5 | Carbon Tetrachloride | | 100 | U |
| 71-43-2 | Benzene | | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | | 100 | U |
| 79-01-6 | Trichloroethene | | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | | 100 | U |
| 75-27-4 | Bromodichloromethane | | 100 | U |
| 110-75-8 | 2-Chloroethyl vinyl ether | | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 100 | U |
| 108-88-3 | Toluene | | 100 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 100 | U |
| 127-18-4 | Tetrachloroethene | | 100 | U |
| 591-78-6 | 2-Hexanone | | 100 | U |
| 124-48-1 | Dibromochloromethane | | 100 | U |
| 108-90-7 | Chlorobenzene | | 100 | U |
| 100-41-4 | Ethylbenzene | | 100 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST
 Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006
 Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D
 Level: (low/med) MED Date Received: 1/26/2006
 % Moisture: not dec. 0 Date Analyzed: 2/7/2006
 GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | | Q |
|-----------|---------------------------|----------------------|-------|---|
| | | (ug/L or ug/Kg) | UG/KG | |
| 1330-20-7 | m+p-Xylenes | 200 | U | |
| 95-47-6 | o-Xylene | 100 | U | |
| 100-42-5 | Styrene | 100 | U | |
| 75-25-2 | Bromoform | 100 | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 100 | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 100 | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 100 | U | |
| 91-20-3 | Naphthalene | 100 | U | |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 07Feb2006

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST
Matrix: (soil/water) SOIL Lab Sample ID: MB 07Feb2006
Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021635.D
Level: (low/med) MED Date Received: 1/26/2006
% Moisture: not dec. 0 Date Analyzed: 2/7/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|---------------------------|-------|------------|----|
| 1. 000079-20-9 | Acetic acid, methyl ester | 12.44 | 2100 | JN |

1A.
VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|------------|---------------------------|-----------------|-------|---|
| 107028 | Acrolein | | 1000 | U |
| 107131 | Acrylonitrile | | 1000 | U |
| 75650 | tert-Butyl alcohol | | 1000 | U |
| 1634044 | Methyl-tert-Butyl ether | | 100 | U |
| 108203 | Di-isopropyl ether | | 100 | U |
| 75718 | Dichlorodifluoromethane | | 100 | U |
| 74-87-3 | Chloromethane | | 100 | U |
| 75-01-4 | Vinyl Chloride | | 100 | U |
| 74-83-9 | Bromomethane | | 100 | U |
| 75-00-3 | Chloroethane | | 100 | U |
| 75-69-4 | Trichlorofluoromethane | | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | | 100 | U |
| 67-64-1 | Acetone | | 100 | U |
| 75-15-0 | Carbon Disulfide | | 100 | U |
| 75-09-2 | Methylene Chloride | | 100 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | | 100 | U |
| 108-05-4 | Vinyl Acetate | | 100 | U |
| 78-93-3 | 2-Butanone | | 100 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 100 | U |
| 67-66-3 | Chloroform | | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 100 | U |
| 56-23-5 | Carbon Tetrachloride | | 100 | U |
| 71-43-2 | Benzene | | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | | 100 | U |
| 79-01-6 | Trichloroethene | | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | | 100 | U |
| 75-27-4 | Bromodichloromethane | | 100 | U |
| 110-75-8 | 2-Chloroethyl vinyl ether | | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 100 | U |
| 108-88-3 | Toluene | | 100 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 100 | U |
| 127-18-4 | Tetrachloroethene | | 100 | U |
| 591-78-6 | 2-Hexanone | | 100 | U |
| 124-48-1 | Dibromochloromethane | | 100 | U |
| 108-90-7 | Chlorobenzene | | 100 | U |
| 100-41-4 | Ethylbenzene | | 100 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

| |
|------------|
| Trip Blank |
|------------|

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|-----------|---------------------------|-----------------|-------|---|
| 1330-20-7 | m+p-Xylenes | | 200 | U |
| 95-47-6 | o-Xylene | | 100 | U |
| 100-42-5 | Styrene | | 100 | U |
| 75-25-2 | Bromoform | | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 100 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 100 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 100 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 100 | U |
| 91-20-3 | Naphthalene | | 100 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461

Project: 06-34880 Case No.: 60057 Location: 614 SDG No.: UST

Matrix: (soil/water) SOIL Lab Sample ID: 6005607

Sample wt/vol: 10.0 (g/ml) G Lab File ID: VB021636.D

Level: (low/med) MED Date Received: 1/26/2006

% Moisture: not dec. 0 Date Analyzed: 2/7/2006

GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 25000 (uL) Soil Aliquot Volume: 125 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KGNumber TICs found: 4

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|----------------|------------------------------|-------|------------|----|
| 1. | unknown | 5.11 | 870 | J |
| 2. 000079-20-9 | Acetic acid, methyl ester | 12.43 | 12000 | JN |
| 3. 001112-39-6 | Silane, dimethoxydimethyl- | 17.38 | 1900 | JN |
| 4. 000554-12-1 | Propanoic acid, methyl ester | 17.83 | 370 | JN |

SEMI-VOLATILE ORGANICS

000053

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

Data File Name **BNA11471.D**
 Operator **BPatel**
 Date Acquired **30-Jan-06**

Sample Name **MB-012706-01**
 Misc Info **MB-012706-01**
 Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | RL | Qualifiers |
|------------|-----------------------------|------|----------|--------------|--------------------------|------|-------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 1.13 | 10.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 0.8 | 0.60 | 10.00 | ug/L |
| 62-53-3 | Aniline | | | not detected | 6 | 2.38 | 10.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 7 | 0.71 | 10.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 1.02 | 10.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.99 | 10.00 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | 2000 | 0.66 | 10.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.96 | 10.00 | ug/L |
| 39638-32-9 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.88 | 10.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | | | not detected | 10 | 0.76 | 10.00 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 7 | 0.96 | 10.00 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 6 | 0.86 | 10.00 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 40 | 0.76 | 10.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.79 | 10.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.89 | 10.00 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | 300 | 0.76 | 10.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | 30 | 1.37 | 10.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.99 | 10.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 1.01 | 10.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 40 | 0.92 | 10.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | 600 | 0.72 | 10.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.77 | 10.00 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | NLE | 0.78 | 10.00 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.67 | 10.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | 10 | 0.71 | 10.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 1.18 | 10.00 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.73 | 10.00 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.69 | 10.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.81 | 10.00 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 6000 | 0.96 | 10.00 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.71 | 10.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.73 | 10.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 1.11 | 10.00 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 10 | 0.62 | 10.00 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.72 | 10.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.92 | 10.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 0.02 | 0.95 | 10.00 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.81 | 10.00 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.76 | 10.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 700 | 0.92 | 10.00 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.82 | 10.00 | ug/L |

**Semi-Volatile Analysis Report
Page 2**

Data File Name BNA11471.D
Operator BPatel
Date Acquired 30-Jan-06

Sample Name MB-012706-01
Misc Info MB-012706-01
Sample Multiplier 1

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | RL | Qualifiers |
|----------|----------------------------|------|----------|--------------|--------------------------|------|------------|------------|
| 92-87-5 | Benzidine | | | not detected | 20 | 0.98 | 10.00 ug/L | |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.79 | 10.00 ug/L | |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.86 | 10.00 ug/L | |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 0.1 | 0.82 | 10.00 ug/L | |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 30 | 1.31 | 10.00 ug/L | |
| 218-01-9 | Chrysene | | | not detected | 5 | 0.77 | 10.00 ug/L | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 3 | 1.28 | 10.00 ug/L | |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 1.02 | 10.00 ug/L | |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 0.2 | 0.98 | 10.00 ug/L | |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 0.5 | 0.92 | 10.00 ug/L | |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 0.1 | 0.71 | 10.00 ug/L | |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 0.2 | 0.76 | 10.00 ug/L | |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 0.3 | 0.76 | 10.00 ug/L | |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 0.80 | 10.00 ug/L | |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-012706-01

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: MB-012706-01

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11471.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/27/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006

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 |
|------------|---------------|----|------------|---|
| | | | | |

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

Data File Name **BNA11481.D**
 Operator **BPatel**
 Date Acquired **30-Jan-06**

Sample Name **6005605**
 Misc Info **692C-GW**
 Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | RL | Qualifiers |
|------------|-----------------------------|------|----------|--------------|--------------------------|------|-------|------------|
| 110-86-1 | Pyridine | | | not detected | NLE | 1.13 | 10.00 | ug/L |
| 62-75-9 | N-nitroso-dimethylamine | | | not detected | 0.8 | 0.60 | 10.00 | ug/L |
| 62-53-3 | Aniline | | | not detected | 6 | 2.38 | 10.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | | | not detected | 7 | 0.71 | 10.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | | | not detected | 600 | 1.02 | 10.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | | | not detected | 75 | 0.99 | 10.00 | ug/L |
| 100-51-6 | Benzyl alcohol | | | not detected | 2000 | 0.66 | 10.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | | | not detected | 600 | 0.96 | 10.00 | ug/L |
| 39638-32-9 | bis(2-chloroisopropyl)ether | | | not detected | 300 | 0.88 | 10.00 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | | | not detected | 10 | 0.76 | 10.00 | ug/L |
| 67-72-1 | Hexachloroethane | | | not detected | 7 | 0.96 | 10.00 | ug/L |
| 98-95-3 | Nitrobenzene | | | not detected | 6 | 0.86 | 10.00 | ug/L |
| 78-59-1 | Isophorone | | | not detected | 40 | 0.76 | 10.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | | | not detected | NLE | 0.79 | 10.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | | | not detected | 9 | 0.89 | 10.00 | ug/L |
| 91-20-3 | Naphthalene | | | not detected | 300 | 0.76 | 10.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | | | not detected | 30 | 1.37 | 10.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | | | not detected | 1 | 0.99 | 10.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | | | not detected | NLE | 1.01 | 10.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | | | not detected | 40 | 0.92 | 10.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | | | not detected | 600 | 0.72 | 10.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | | | not detected | NLE | 0.77 | 10.00 | ug/L |
| 131-11-3 | Dimethylphthalate | | | not detected | NLE | 0.78 | 10.00 | ug/L |
| 208-96-8 | Acenaphthylene | | | not detected | NLE | 0.67 | 10.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | | | not detected | 10 | 0.71 | 10.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | | | not detected | NLE | 1.18 | 10.00 | ug/L |
| 83-32-9 | Acenaphthene | | | not detected | 400 | 0.73 | 10.00 | ug/L |
| 132-64-9 | Dibenzofuran | | | not detected | NLE | 0.69 | 10.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | | | not detected | 10 | 0.81 | 10.00 | ug/L |
| 84-66-2 | Diethylphthalate | | | not detected | 6000 | 0.96 | 10.00 | ug/L |
| 86-73-7 | Fluorene | | | not detected | 300 | 0.71 | 10.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | | not detected | NLE | 0.73 | 10.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | | | not detected | NLE | 1.11 | 10.00 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | | | not detected | 10 | 0.62 | 10.00 | ug/L |
| 103-33-3 | Azobenzene | | | not detected | NLE | 0.72 | 10.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | | | not detected | NLE | 0.92 | 10.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | | | not detected | 0.02 | 0.95 | 10.00 | ug/L |
| 85-01-8 | Phenanthrene | | | not detected | NLE | 0.81 | 10.00 | ug/L |
| 120-12-7 | Anthracene | | | not detected | 2000 | 0.76 | 10.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | | | not detected | 700 | 0.92 | 10.00 | ug/L |
| 206-44-0 | Fluoranthene | | | not detected | 300 | 0.82 | 10.00 | ug/L |

Semi-Volatile Analysis Report Page 2

Data File Name **BNA11481.D**
Operator **BPatel**
Date Acquired **30-Jan-06**

Sample Name **6005605**
Misc Info **692C-GW**
Sample Multiplier **1**

| CAS# | Name | R.T. | Response | Result | Regulatory Level (ug/L)* | MDL | RL | Qualifiers |
|----------|----------------------------|------|----------|--------------|--------------------------|------|-------|------------|
| 92-87-5 | Benzidine | | | not detected | 20 | 0.98 | 10.00 | ug/L |
| 129-00-0 | Pyrene | | | not detected | 200 | 0.79 | 10.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | | | not detected | 100 | 0.86 | 10.00 | ug/L |
| 56-55-3 | Benzo[a]anthracene | | | not detected | 0.1 | 0.82 | 10.00 | ug/L |
| 91-94-1 | 3,3'-Dichlorobenzidine | | | not detected | 30 | 1.31 | 10.00 | ug/L |
| 218-01-9 | Chrysene | | | not detected | 5 | 0.77 | 10.00 | ug/L |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | | | not detected | 3 | 1.28 | 10.00 | ug/L |
| 117-84-0 | Di-n-octylphthalate | | | not detected | 100 | 1.02 | 10.00 | ug/L |
| 205-99-2 | Benzo[b]fluoranthene | | | not detected | 0.2 | 0.98 | 10.00 | ug/L |
| 207-08-9 | Benzo[k]fluoranthene | | | not detected | 0.5 | 0.92 | 10.00 | ug/L |
| 50-32-8 | Benzo[a]pyrene | | | not detected | 0.1 | 0.71 | 10.00 | ug/L |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | | | not detected | 0.2 | 0.76 | 10.00 | ug/L |
| 53-70-3 | Dibenz[a,h]anthracene | | | not detected | 0.3 | 0.76 | 10.00 | ug/L |
| 191-24-2 | Benzo[g,h,i]perylene | | | not detected | NLE | 0.80 | 10.00 | ug/L |

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

692C-GW

Lab Name: FMETL Lab Code 13461

Project: 06-34880 Case No.: 60056 Location: 692 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 6005605

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11481.D

Level: (low/med) LOW Date Received: 1/26/2006

% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/27/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006

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 |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

TPHC

000078

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

Project # : 60056
Location : 692
UST Reg. # : 06-34880

Analysis : OQA-QAM-025
Matrix : Soil
Inst. ID. : GC TPHC INST. #1
Column Type : RTX-5, 0.32mm ID, 30M
Injection Volume : 1uL

Date Received : 26-Jan-06
Date Extracted : 01-Feb-06
Extraction Method : Shake
Analysis Complete : 02-Feb-06
Analyst : B.Patel

| Lab ID | Field ID | Dilution Factor | Weight (g) | % Solid | MDL (mg/kg) | RL | TPHC Result (mg/kg) |
|--------------|--------------|-----------------|------------|---------|-------------|-----|---------------------|
| 6005601 | 692N | 1.00 | 15.10 | 94.32 | 68 | 351 | ND |
| 6005602 | 692C | 1.00 | 15.40 | 95.00 | 66 | 342 | ND |
| 6005603 | Dupe | 1.00 | 15.15 | 93.32 | 68 | 354 | ND |
| 6005604 | 692S | 1.00 | 15.38 | 93.44 | 67 | 348 | ND |
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| METHOD BLANK | MB-020106-01 | 1.00 | 15.00 | 100.00 | 64 | 333 | ND |

ND = Not Detected

MDL = Method Detection Limit

RL = Reporting Limits

Note : The TPHC result between the MDL and RL are considered an estimated value

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 data 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. | <input checked="" type="checkbox"/> |
| 2. | Table of Contents submitted. | <input checked="" type="checkbox"/> |
| 3. | Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted. | <input checked="" type="checkbox"/> |
| 4. | Document paginated and legible. | <input checked="" type="checkbox"/> |
| 5. | Chain of Custody submitted. | <input checked="" type="checkbox"/> |
| 6. | Samples submitted to lab within 48 hours of sample collection. | <input checked="" type="checkbox"/> |
| 7. | Methodology Summary submitted. | <input checked="" type="checkbox"/> |
| 8. | Laboratory Chronicle and Holding Time Check submitted. | <input checked="" type="checkbox"/> |
| 9. | Results submitted on a dry weight basis. | <input checked="" type="checkbox"/> |
| 10. | Method Detection Limits submitted. | <input checked="" type="checkbox"/> |
| 11. | Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP. | <input checked="" type="checkbox"/> |

Laboratory Manager or Environmental Consultant's Signature

Date: 3/18/06

Laboratory Certification # 13461

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

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