United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 2067 Charles Wood Area

NJDEP UST Registration No. 192486-37 DICAR No. 94-05-16-1445-30

April 2001

UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 2067

CHARLES WOOD AREA NJDEP UST REGISTRATION NO. 192486-37

APRIL 2001

PREPARED FOR:

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

PREPARED BY:



PROJECT NO. 4936-127

TABLE OF CONTENTS

EXECUTIVE SUMMARY	III
1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES	1
1.1 OVERVIEW	1
1.2 SITE DESCRIPTION 1.2.1 Geological/Hydrogeological Setting	1 1
1.3 HEALTH AND SAFETY	3
1.4 REMOVAL OF UNDERGROUND STORAGE TANK 1.4.1 General Procedures 1.4.2 Underground Storage Tank Excavation and Cleaning	3 3 4
1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL	4
1.6 MANAGEMENT OF EXCAVATED SOILS	4
2.0 SITE INVESTIGATION ACTIVITIES	5
2.1 OVERVIEW	5
2.2 FIELD SCREENING/MONITORING	5
2.3 SOIL SAMPLING	5
2.4 GROUNDWATER SAMPLING 2.4.1 Monitoring Well Installation 2.4.2 Monitoring Well Sampling	6 6
3.0 CONCLUSIONS AND RECOMMENDATIONS	8
3.1 SOIL SAMPLING RESULTS	8
3.2 GROUNDWATER SAMPLING RESULTS	8
3.3 CONCLUSIONS AND RECOMMENDATIONS	8

TABLE OF CONTENTS (continued)

TABLES

Table 1	Summary of Post-Excavation Sampling Activities
Table 2	Post-Excavation Soil Sampling Results
Table 3	Groundwater Sampling Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Cross-Sectional View
Figure 4	Soil Sampling Location Map
Figure 5	Well Location and Groundwater Contour Map

APPENDICES

Appendix A	NJDEP Standard Reporting Form
Appendix B	Site Assessment Summary
Appendix C	Waste Manifest
Appendix D	UST Disposal Certificate
Appendix E	Soil Analytical Data Package
Appendix F	Groundwater Analytical Data Package
Appendix G	Well Permits

EXECUTIVE SUMMARY

UST Closure

On May 16, 1994, a steel underground storage tank (UST) was closed by removal in accordance with New Jersey Department of Environmental Protection (NJDEP) closure procedures at the Charles Wood Area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 00192486-37 (Fort Monmouth ID No. 2067), was located north of Building 2067. UST No. 00192486-37 was a 550-gallon #2 fuel oil UST.

Site Assessment-Soil

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. The sampling and laboratory analyses conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements for Site Remediation*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the UST was inspected for corrosion holes or punctures. No holes or punctures were noted in the UST. Stained soil was observed and appeared to be contaminated. Based on the inspection of the excavation, Directorate of Public Works (DPW) concluded that a discharge of petroleum products was associated with this UST. The NJDEP hotline was notified and the case was assigned DICAR No. 94-05-16-1445-30. Groundwater was encountered at 7.0 feet below ground surface and sheen was observed on groundwater.

On May 16, 1994, following the removal of the UST and approximately 20 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples east wall and south wall were collected from two (2) locations within the UST excavation area. Sidewall samples east wall and south wall were collected at a depth of 6.0 feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

On May 18, 1994, following the removal of approximately 30 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples A through I were collected from nine (9) locations within the UST excavation. Sidewall samples A through I were collected at a depth of 6.5 feet bgs. All samples were analyzed for TPHC and total solids.

On May 23, 1994, following the removal of approximately 40 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples J through U were collected from eleven (11) locations within the UST excavation. Sidewall samples J through U were collected at a depth of 6.5 feet bgs. All samples were analyzed for TPHC and total solids.

Site Assessment-Findings

Analytical results of post-excavation soil samples collected between May 16 and May 23, 1994 contained either non-detectable concentrations of contaminants or concentrations of contaminants below the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

Site Assessment-Groundwater

In response to the observation of potentially contaminated soil near the shallow water table, two (2) shallow overburden monitoring wells (MW-1 and MW-2) were installed at the Building 2067 area on October 4 and October 5, 1994. MW-1 was installed approximately 70 feet east of the northwestern corner of Building 2067 in the vicinity of the former excavation. It was screened in the 2.5 to 12.5 foot depth interval, across the water table, which is approximately 7.0 feet below ground surface.

A second shallow overburden monitoring well (MW-2) was installed at the Building 2067 area on October 5, 1994. It was installed approximately 75 feet northwest of the northwestern corner of Building 2067 in the vicinity of the former excavation. It was screened in the 2.5 to 12.5 foot depth interval, across the water table, which is approximately 7.0 feet below ground surface.

Between May 22, 1995, and January 2, 2001, monitoring wells MW1 and MW-2 were sampled on a quarterly basis. The wells were analyzed for arsenic and VOCs calibrated for xylene plus 15 TICs.

Findings-Groundwater

A review of the historical groundwater analytical results indicates that concentrations of acetone, methylene chloride, and arsenic have been detected during these sampling events at concentrations that exceed the respective NJDEP GWQS. The highest concentrations historically have been detected in samples collected from MW-1. As part of the long-term monitoring program for Building 2067, the levels of acetone detected previously are declining and are now in compliance with the NJDEP GWQS. Methylene chloride has been detected, however, methylene chloride is commonly found as a laboratory contaminant.

Conclusion and Recommendations

Based on the analytical results of the post-excavation soil samples collected between May 16 and May 23, 1994, soil quality at the Building 2067 UST closure site does not exceed the NJDEP RDCSCC. Therefore, no further action is warranted.

Based on the analytical results of the groundwater samples collected from MW-1 and MW-2, groundwater quality at the Building 2067 UST closure site exceeds the New Jersey Groundwater Quality Standard for arsenic. Continued collection of groundwater samples on a quarterly basis from MW-1 and MW-2 is recommended. The analysis will determine if

the levels of arsenic detected previously are declining. The need for additional actions to address groundwater contamination should be evaluated following receipt of the additional groundwater monitoring data.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 00192486-37, was closed at Building 2067 at the Charles Wood area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on May 16, 1994. Refer to the Site Location Map, Figure 1. This report presents the results of the Department of Public Works' (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP. The UST was a steel 550-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 192486-37 complied with all applicable Federal, State, and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 and 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 192486-37 proceeded under the approval of the NJDEP Bureau of Federal Case Management (NJDEP-BFCM). The Standard Reporting Form and signed Site Assessment Summary form for UST No. 192486-37 are included in Appendices A and B, respectively.

This UST Closure and Site Investigation Report has been prepared by Versar, to assist the U.S. Army DPW in complying with the NJDEP regulations. The applicable NJDEP regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. October 1990 and revisions dated November 1, 1991).

This report was prepared using information collected at the time of closure. Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling and groundwater investigation, are presented in the final section of this report.

1.2 SITE DESCRIPTION

Building 2067 is located in the Charles Wood area of the Fort Monmouth Army Base. UST No. 00192486-37 was located north of Building 2067 and appurtenant and appurtenant copper piping ran approximately two- (2) feet south to Building 2067. A Site Map is provided as Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area

surrounding Building 2067. 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 Charles Wood 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 Charles Wood 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 at the Charles Wood 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 Charles Woods area, water is typically encountered at depths of 1 to 9 feet below ground surface (bgs). The depth to ground water measured at two monitoring wells installed at Building 2067 ranged between 4.08 feet (MW-1 on February 2, 2001) and 9.53 feet (MW-2 on June 14, 1995).

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.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system 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 properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- The contractor performing the closure prior to excavation activities identified all underground obstructions (utilities, etc.).
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
- All excavated soils were visually examined and screened with an Organic Vapor Analyzer (OVA) for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged separately from all soil and recycled in accordance with all

- applicable regulations and laws.
- A Subsurface Evaluator from the DPW was present during all site assessment activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was cut in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 572 gallons of liquid from the UST and associated piping were transported by Freehold Cartage, Inc. to the Lionetti Oil Recovery Co., Inc. facility, a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest.

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. No holes were observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. Soils were stained and appeared to be contaminated. Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length. Groundwater was encountered at 7.0 feet below ground surface and sheen was observed on groundwater. See Figure 3 for a cross-sectional view of the excavation area.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported in compliance with all applicable regulations and laws to Mazza & Sons, Inc. Please refer to Appendix D for the UST Disposal Certificate.

The UST was labeled prior to transport with the following information:

- Site of origin
- Contact person
- NJDEP UST Facility ID number
- Former contents
- Destination site
- Date

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, approximately 90 cubic yards of potentially contaminated soil were removed from the UST excavation. All potentially contaminated soils were stockpiled separately from other excavated material and were placed on and covered with polyethylene sheets. Potentially contaminated soils were transported to the soil staging area. Soils that did not exhibit signs of contamination were used as backfill following the removal of the UST.

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 U.S. Army Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of 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, *Interim Closure Requirements for Underground Storage Tank Systems* (October 1990 and revisions dated November 1, 1991), which was the applicable regulation at the date of the closure. The Fort Monmouth DPW Environmental Office maintains all records of the Site Investigation activities.

The following Parties participated in Closure and Site Investigation Activities:

 Subsurface Evaluator: Charles Appleby Employer: U.S. Army, Fort Monmouth Phone Number: (732) 532-0989
 NJDEP Certification No.: 002056

Analytical Laboratory: U.S. Army Fort Monmouth Environmental laboratory

Contact Person: Daniel K. Wright Phone Number: (732) 532-4359

NJDEP Company Certification No.: 13461

Hazardous Waste Hauler: Lorco Petroleum Services

Contact Person: David Smith Phone Number: (732) 721-0900

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Subsurface Evaluator using an OVA and visual observations to identify potentially contaminated material. Approximately 90 cubic yards of potentially petroleum-contaminated soils were removed from the excavation area and transported to the Charles Wood petroleum contaminated soil holding area. Soils were removed from the excavation until no evidence of contamination remained. Groundwater was encountered at 7.0 feet below ground surface and sheen was observed on groundwater.

2.3 SOIL SAMPLING

On May 16, 1994, following the removal of the UST and approximately 20 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples east wall and south wall were collected from two (2) locations within the UST excavation area. Sidewall samples east wall and south wall were collected at a depth of 6.0

feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

On May 18, 1994, following the removal of approximately 30 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples A through I were collected from nine (9) locations within the UST excavation. Sidewall samples A through I were collected at a depth of 6.5 feet bgs. All samples were analyzed for TPHC and total solids.

On May 23, 1994, following the removal of approximately 40 cubic yards of potentially petroleum contaminated soil from the excavated area, post-excavation soil samples J through U were collected from eleven (11) locations within the UST excavation. Sidewall samples J through U were collected at a depth of 6.5 feet bgs. All samples were analyzed for TPHC and total solids.

U.S. Army personnel performed the site assessment in accordance with the NJDEP Technical Requirements and the NJDEP Field Sampling Procedures Manual. A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using NJDEP *Field Sampling Procedures Manual* (1992) standard sampling procedures. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

2.4 GROUNDWATER SAMPLING

2.4.1 Monitoring Well Installation

Two shallow overburden monitoring wells (MW-1 and MW-2) were installed at the Building 2067 area on October 4 and October 5, 1994. MW-1 was installed approximately 70 feet east of the northwestern corner of Building 2067 in the vicinity of the former excavation. It was screened in the 2.5 to 12.5 foot depth interval, across the water table, which is approximately 7.0 feet below ground surface.

A second shallow overburden monitoring well (MW-2) was installed at the Building 2067 area on October 5, 1994. It was installed approximately 75 feet northwest of the northwestern corner of Building 2067 in the vicinity of the former excavation. It was screened in the 2.5 to 12.5 foot depth interval, across the water table, which is approximately 7.0 feet below ground surface.

The two wells were constructed in accordance with NJDEP's well construction protocols outlined in its May 1992 *Field Sampling Procedures Manual*. The NJDEP well permits and well construction logs are presented in Appendix G.

2.4.2 Monitoring Well Sampling

Between May 22, 1995, and January 2, 2001, monitoring wells MW1 and MW-2 were sampled on a quarterly basis. The wells were analyzed for arsenic and VOCs calibrated for xylene plus 15 TICs.

All sampling and analyses were performed in accordance with the NJDEP *Field Sampling Procedures Manual*, and the *Technical Requirements for Site Remediation*, N.J.A.C. 7:26E (*Technical Requirements*).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST and associated soils, twenty-two (22) post-excavation sample results were compared to NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC) (N.J.A.C. 7:26D and revisions dated May 12, 1999). Summaries of analytical results for soils are presented in Table 2 and the associated soil sampling locations are shown on Figure 4. The analytical data package is provided in Appendix E.

Excavation of potentially contaminated soil from the area surrounding the UST was performed between May 16 and May 23, 1994. Approximately 90 cubic yards of potentially contaminated soil were removed from the excavated area and stored at the Charles Wood petroleum contaminated soil staging area.

Analytical results of post-excavation soil samples collected between May 16 and May 23, 1994 contained either non-detectable concentrations of contaminants or concentrations of contaminants below the NJDEP RDCSCC.

3.2 GROUNDWATER SAMPLING RESULTS

A review of the historical groundwater analytical results indicates that concentrations of acetone, methylene chloride, and arsenic have been detected during these sampling events at concentrations that exceed the respective NJDEP GWQS. The highest concentrations historically have been detected in samples collected from MW-1. As part of the long-term monitoring program for Building 2067, the levels of acetone detected previously are declining and are now in compliance with the NJDEP GWQS. Methylene chloride has been detected, however, methylene chloride is commonly found as a laboratory contaminant. The groundwater analytical data is summarized in Table 3 and the groundwater sampling locations are shown on Figure 5. Refer to Appendix F for the groundwater analytical data package.

3.3 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results of the post-excavation soil samples collected between May 16 and May 23, 1994, soil quality at the Building 2067 UST closure site does not exceed the NJDEP RDCSCC. Therefore, no further action is warranted.

Based on the analytical results of the groundwater samples collected from MW-1 and MW-2, groundwater quality at the Building 2067 UST closure site exceeds the New Jersey Groundwater Quality Standard for arsenic. Continued collection of groundwater samples on a quarterly basis from MW-1 and MW-2 is recommended. The analysis will determine if the levels of arsenic detected previously are declining. The need for additional actions to address groundwater contamination should be evaluated following receipt of the additional groundwater monitoring data.



TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES BUILDING 2067, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 3

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Sample Method
**East Wall	5/16/94	5/17/94	Soil	Post-Excavation	TPHC	Scoop
**South Wall	5/16/94	5/17/94	Soil	Post-Excavation	TPHC	Scoop

Note:

TPHC Total Petroleum Hydrocarbons Sample location was further remediated and resampled

TABLE 1 SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES BUILDING 2067, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Dogo	2	αf	2
Page	4	ΟI	J

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Sample Method
A	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
**B	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
C	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
**D	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
E	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
F	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
G	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
Н	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop
I	5/18/94	5/18/94	Soil	Post-Excavation	TPHC	Scoop

Note:

TPHC Total Petroleum Hydrocarbons Sample location was further remediated and resampled

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 2067, CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

D	2	- C	
Page	3	ΟI	1

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Sample Method
J	5/23/94	5/24/94	Soil	Post-Excavation	ТРНС	Scoop
K	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
L	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
M	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
N	5/23/94	5/24/94	Soil	Post-excavation	TPHC	Scoop
O	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
P	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
Q	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
R	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
S	5/23/94	5/24/94	Soil	Post-excavation	TPHC	Scoop
T	5/23/94	5/24/94	Soil	Post-Excavation	TPHC	Scoop
U (DUP J)	5/23/94	5/24/94	Soil	Post-excavation	TPHC	Scoop

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 2 POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 2067, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 3

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
***East Wall/6'	1495.1	5/16/94	5/17/94	Total Solid			75.00 %		
				TPHC	6.6	Yes	51.80	10,000	No
***South Wall/6'	1495.2	5/16/94	5/17/94	Total Solid			78.00 %		
				TPHC	69	Yes	6,490	10,000	No

Note:

* Total Solid results are expressed as a percentage.

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

*** Sample location was further remediated and resampled ND Not detected above stated method detection limit

TPHC Total Petroleum Hydrocarbons

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 2067, CHARLES WOOD AREA
FORT MONMOUTH, NEW JERSEY

Page 2 of 3

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/6.5'=	1496.1	5/18/94	5/18/94	Total Solid			81.00 %		
				TPHC	6.6	Yes	27.40	10,000	No
***B/6.5'=	1496.2	5/18/94	5/18/94	Total Solid			77.00%		
				TPHC	109	Yes	20,800	10,000	Yes
C/6.5' =	1496.3	5/18/94	5/18/94	Total Solid			81.00 %		
				TPHC	9.9	Yes	331	10,000	No
***D/6.5'=	1496.4	5/18/94	5/18/94	Total Solid			78.00 %		
				TPHC	46	Yes	5,050	10,000	No
E/6.5'=	1496.5	5/18/94	5/18/94	Total Solid			80.00%		
				TPHC	6.6	Yes	358	10,000	No
F/6.5' =	1496.6	5/18/94	5/18/94	Total Solid			75.00 %		
				TPHC	6.6	Yes	40.4	10,000	No
G/6.5'=	1496.7	5/18/94	5/18/94	Total Solid			74.00 %		
				TPHC	9.9	Yes	308	10,000	No
H/6.5'=	1496.8	5/18/94	5/18/94	Total Solid			75.00%		
				TPHC	6.6	Yes	36.8	10,000	No
I/4.0'=	1496.9	5/18/94	5/18/94	Total Solid			80.00 %		
				TPHC	6.6	Yes	21	10,000	No

Note:

* Total Solid results are expressed as a percentage.

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

*** Sample location was further remediated and resampled

ND Not detected above stated method detection limit

TPHC Total Petroleum Hydrocarbons

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 2067, CHARLES WOOD AREA FORT MONMOUTH, NEW JERSEY

Page 3 of 3

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
J/6.5'=	1501.1	5/23/94	5/24/94	Total Solid			77.00 %		
				TPHC	6.6	Yes	19.1	10.000	No
K/6.5' =	1501.2	5/23/94	5/24/94	Total Solid			90.00 %		
				TPHC	6.6	Yes	10.5	10.000	No
L/6.5'=	1501.3	5/23/94	5/24/94	Total Solid			79.00 %		
				TPHC	6.6	Yes	ND	10.000	No
M/6.5'=	1501.4	5/23/94	5/24/94	Total Solid			79.00 %		
				TPHC	6.6	Yes	ND	10.000	No
N/6.5' =	1501.5	5/23/94	5/24/94	Total Solid			76.00 %		
				TPHC	6.6	Yes	ND	10.000	No
O/6.5' =	1501.6	5/23/94	5/24/94	Total Solid			73.00 %		
				TPHC	6.6	Yes	ND	10.000	No
P/6.5' =	1501.7	5/23/94	5/24/94	Total Solid			75.00 %		
				TPHC	6.6	Yes	ND	10,000	No
O/6.5' =	1501.8	5/23/94	5/24/94	Total Solid			73.00 %		
				TPHC	6.6	Yes	ND	10,000	No
R/6.5' =	1501.9	5/23/94	5/24/94	Total Solid			82.00 %		
				TPHC	6.6	Yes	ND	10.000	No
S/6.5' =	1501.10	5/23/94	5/24/94	Total Solid			79.00 %		
				TPHC	6.6	Yes	ND	10,000	No
T/6.5' =	1501.11	5/23/94	5/24/94	Total Solid			74.00 %		
				TPHC	6.6	Yes	ND	10.000	No
U/6.5'=	1501.12	5/23/94	5/24/94	Total Solid			91.00 %		
				TPHC	3.3	Yes	ND	10,000	No
3.7									

Note:

Total Solid results are expressed as a percentage. NJDEP Residential Direct Contact soil cleanup criteria for total organics **

Not detected above stated method detection limit ND

TPHC Total Petroleum Hydrocarbons

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER BUILDING NO. 2067 FORT MONMOUTH, NEW JERSEY

Well	Sample Date	Acetone	Methylene Chloride	Toluene	2-Butanone	2-Hexanone	4-Methyl-2- Pentanone	Dimethyl sulfide	Arsenic
UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NJDEP CRITERIA:		700	2	1000	300	NLE	400	NLE	8
2067MW01	05/22/95	ND	ND	ND	ND	ND	ND	ND	_
2067MW01	06/14/95	ND	ND	ND	ND	ND	ND	ND	-
2067MW01	11/05/96	-	-	-	-	-	-	-	39.10
2067MW01	02/20/97	960	ND	1.58	91	15	ND	ND	13.20
2067MW01	04/15/97	590	ND	ND	59	13	ND	24	16.00
2067MW01	09/03/97	73	15.20	ND	ND	ND	ND	9	31.80
2067MW01	12/04/97	1700	ND	ND	272	24	8.74	4	18.00
2067MW01	03/06/98	1400	ND	ND	149	17	ND	12	13.00
2067MW01	05/21/98	1100	ND	4.50	127	20	5.67	6	12.50
2067MW01	08/26/98	121.08	ND	1.70	11.78	ND	ND	ND	4.80
2067MW01	12/09/98	ND	ND	ND	ND	ND	ND	ND	13.90
2067MW01	02/17/99	ND	ND	ND	ND	ND	ND	ND	4.70
2067MW01	06/18/99	ND	ND	ND	ND	ND	ND	ND	18.50
2067MW01	08/10/99	7.54	ND	ND	ND	ND	ND	ND	36.80
2067MW01	11/15/99	678.10	ND	ND	30.29	ND	4.18	ND	11.80
2067MW01	03/27/00	252.05	ND	ND	ND	ND	ND	ND	4.30
2067MW01	06/15/00	169.34	ND	ND	16.76	ND	ND	ND	14.00
2067MW01	08/31/00	466.83	ND	ND	10.45	ND	ND	ND	11.50
2067MW01	11/09/00	111.81	ND	ND	ND	ND	ND	ND	5.70
2067MW01	02/02/01	163.91	ND	ND	8.91	ND	ND	ND	3.10

Note:
Gray shading indicates exceedance of New Jersey Ground Water Quality Criteria (GWQC) defined in NJAC 7:9-6.

Abbreviations:

MW: Monitoring Well. Not Detected. ND: ug/L: Micrograms per liter. NLE: No Limit Established.

Compound was not analyzed for.

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER BUILDING NO. 2067 FORT MONMOUTH, NEW JERSEY

Well	Sample Date	Acetone	Toluene	Unknown Hydrocarbons	Arsenic
UNITS:		ug/L	ug/L	ug/L	ug/L
NJDEP CRITERIA:		700	1000	NLE	8
2067MW02	05/22/95	ND	ND	ND	_
2067MW02	06/14/95	ND	ND	ND	-
2067MW02	08/21/96	-	-	-	ND
2067MW02	11/06/96	ND	ND	ND	ND
2067MW02	02/20/97	ND	1.2	ND	ND
2067MW02	04/15/97	ND	ND	ND	4
2067MW02	09/03/97	ND	ND	ND	ND
2067MW02	12/04/97	ND	ND	6	0.1
2067MW02	03/06/98	ND	ND	10	1
2067MW02	05/21/98	ND	ND	ND	ND
2067MW02	08/26/98	5.73	ND	ND	2.6
2067MW02	12/09/98	ND	ND	ND	2.5
2067MW02	02/17/99	ND	ND	ND	1
2067MW02	06/18/99	ND	ND	ND	ND
2067MW02	08/10/99	ND	ND	ND	1.5
2067MW02	11/15/99	ND	ND	ND	1.1
2067MW02	03/27/00	ND	ND	ND	ND
2067MW02	06/15/00	ND	ND	ND	5.6
2067MW02	08/31/00	ND	ND	ND	ND
2067MW02	11/09/00	ND	ND	ND	ND
2067MW02	02/02/01	ND	ND	ND	1.7

Note:

Gray shading indicates exceedance of New Jersey Ground Water Quality Criteria (GWQC) defined in NJAC 7:9-6.

Abbreviations:

MW: Monitoring Well.

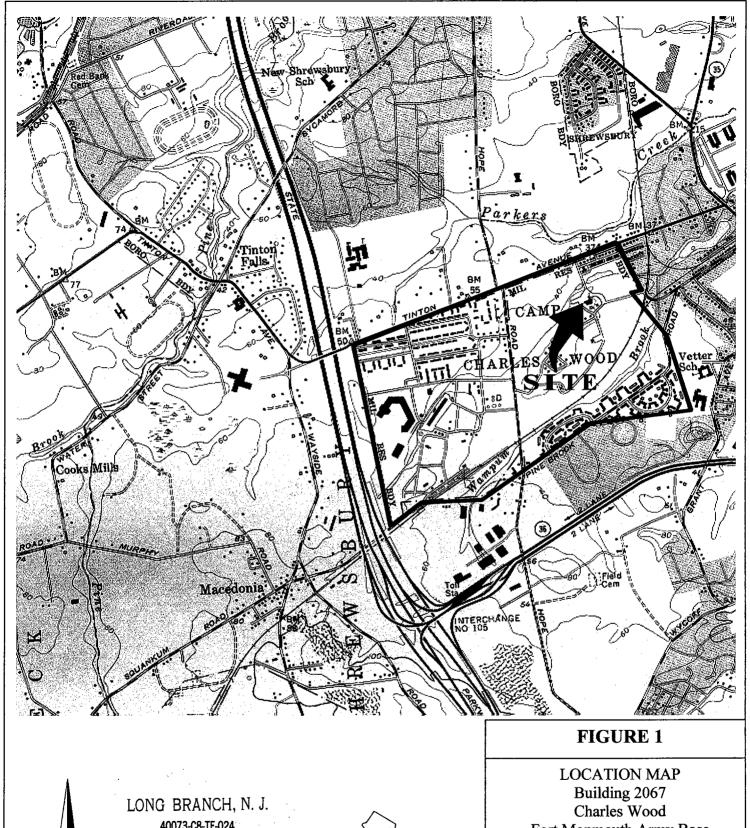
ND: Not Detected.

ug/L: Micrograms per liter.

NLE: No Limit Established.

- Compound was not analyzed for.







40073-C8-TF-024

1954 PHOTOREVISED 1981 DMA 6164 I SE-SERIES V822



Mapped, edited and published by the Geological Survey

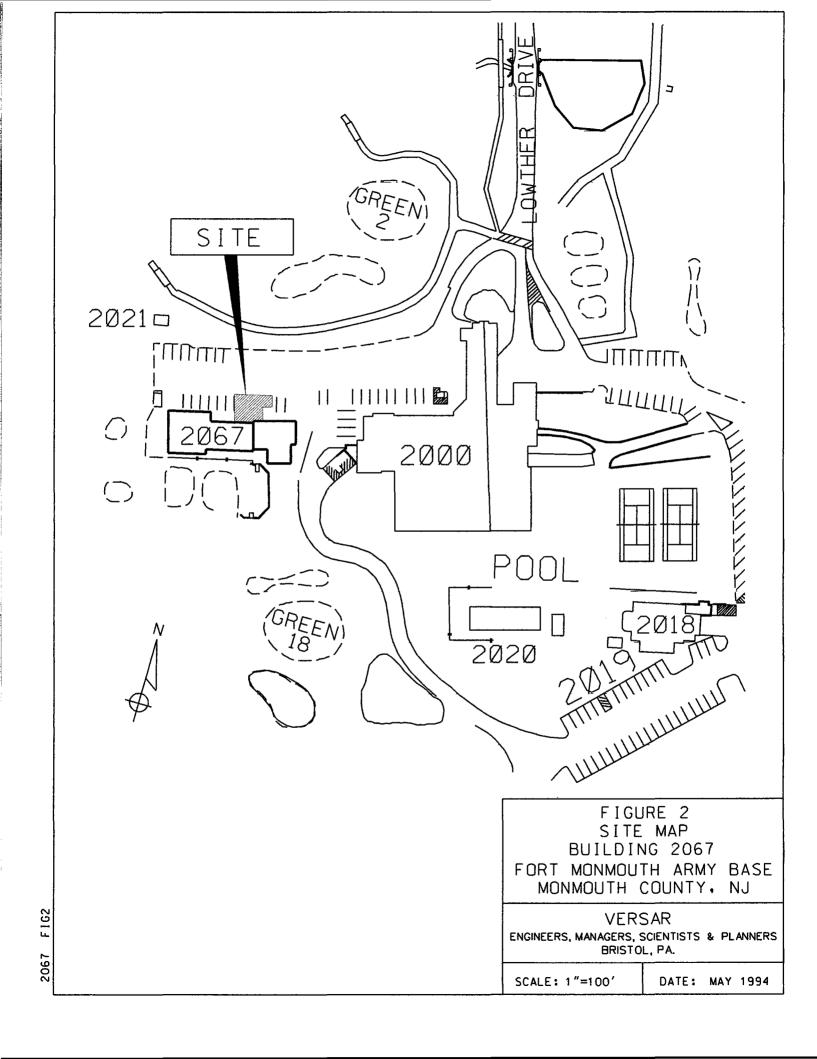
Fort Monmouth Army Base Monmouth County, NJ

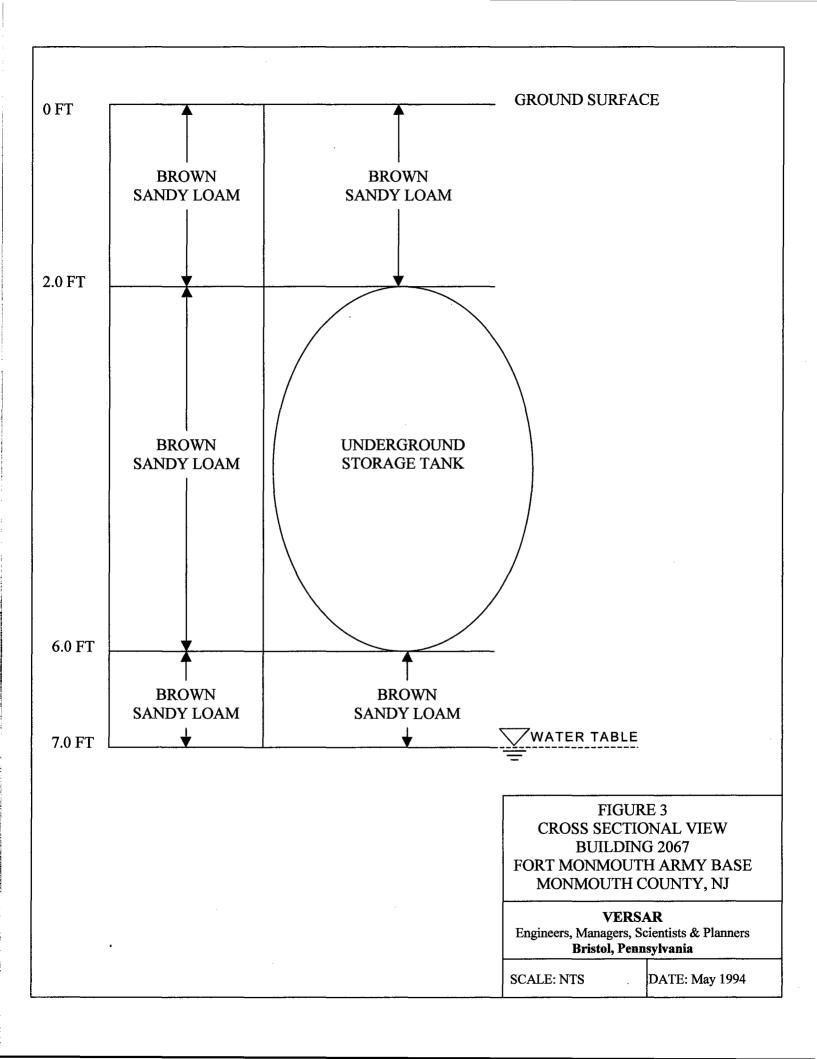
VERSAR

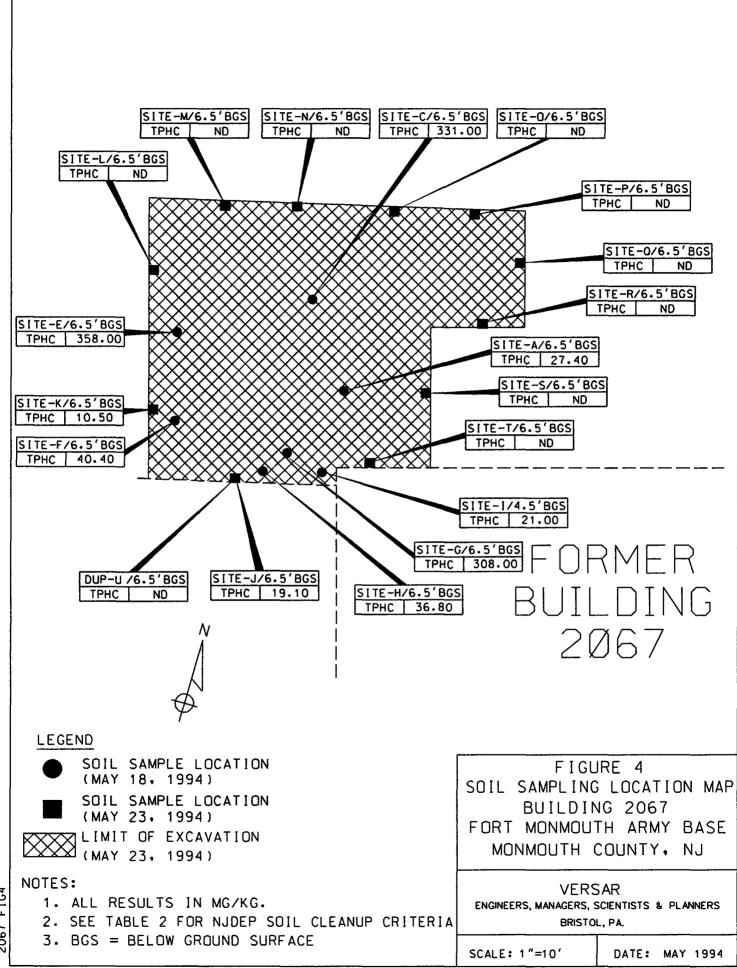
Engineers, Managers, Scientists, & Planners Bristol, PA

Scale: 1" = 2000'

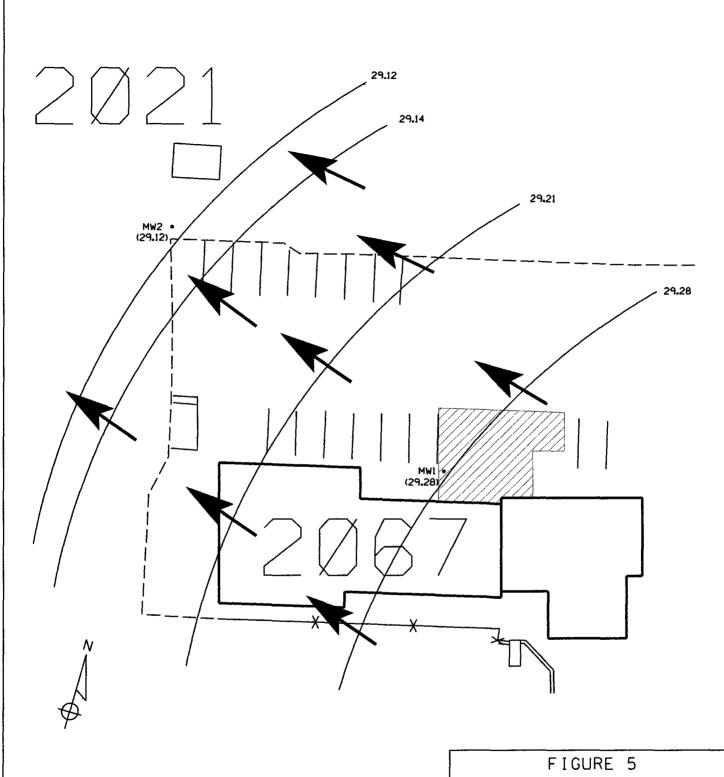
Date: May 1994







2067 FIG4



LEGEND

ESTIMATED GROUNDWATER ELEVATION CONTOUR (FT)
(29.28)GROUNDWATER ELEVATION ON FEBRUARY 2, 2001
NOTE:

1. SEE TABLE 3 FOR GROUNDWATER SAMPLING RESULTS

FIGURE 5
WELL LOCATION AND
GROUNDWATER CONTOUR
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

VERSAR

ENGINEERS, MANAGERS, SCIENTISTS & PLANNERS BRISTOL, PA.

SCALE: 1"= 30'

DATE: MAY 1994

APPENDIX A NJDEP-STANDARD REPORTING FORM

APPENDIX B SITE ASSESSMENT SUMMARY

APPENDIX C

WASTE MANIFEST



State of New Jersey Dep ment of Environmental Protection and Er. Jy Hazardous Waste Regulation Program Manifest Section CN 028, Trenton, NJ 08625-0028

Ple	ase type or print in block letters. (Form designed for use on elite (12-pitc		Form Approved. OMB No. 2050-0039. Expire:	s 9-30-94			
	UNIFORM HAZARDOUS 1. Generator's US EPA WASTE MANIFEST N: J! 2: 2: 1: 0: (ID No. Manifest Documer No. 3 / 9 3	2. Page 1 Information in the shaded ar is not required by Federal I	1			
	3. Generator's Name and Mailing Address US Army Communications Electronics Command Manifest Document Number						
	Charles Wood Area, c/o James Shirghio, Bl	NJA 1603193	}				
	ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ	B. State Generator's ID					
	4. Generator's Phone (908) 532-6223	SAME					
	5. Transporter 1 Company Name 6.	US EPA ID Number					
		D 0 5 4 1 2 6 1 6 4	C. State Trans. ID NJDEPE 527				
	7. Transporter 2 Company Name 8.	US EPA ID Number	D. Transporter's Phone (908) 462-100	01			
		<u> </u>	E. State Trans. ID				
	9. Designated Facility Name and Site Address 10. Lionetti Oil Recovery, Co., Inc.	US EPA ID Number	·				
	Runyon & Cheesequake Rds.		F. Transporter's Phone ()				
	Old Prides NI 09957		G. State Facility's ID				
	NJ		H. Facility's Phone (908) 721–0900				
	11. US DOT Description (Including Proper Shipping Nums, Hazard Class, a HM	nd 'D Number) 12. Conta	iners 13. 14, I. Type Quantity WWVol Waste N	lo.			
	a. X Petroleum Oil, N.O.S. Class 3 (I	Petroleum Oil)					
		l i	VV 570 0				
1	Sompassisia Biquia Sil 12,0 13	0 0 1	$_{\text{T}}$ XX523G $_{\text{X}}$ $_{\text{7}}$ $_{\text{2}}$				
GEN	· V Patroleum Oil, N.O.S. Clas	!		_			
ER	^ Combustible Liquid UNIZ-	10 PGIII OUT	TTXX222G X72	12			
A T	" , Petrolaum O: 1. N.O.S.C	lass 3		1			
0	X Combustible Liquid UN	270 PGIL 001	TTX X7756 X 7 2	208			
R	4 1 4 4 5 6	_ 1					
	" V Retrolaum Oil, N.O.S. C		- 11570 GV-0				
$\ \cdot\ $	1 Combustible Liquid UN	1270 PGILLOOI	TXX5/20X1/2	120			
	J. Additional Descriptions for Meerials Listed Above	umoil 95%	K. Handling Codes for Wastes Listed Above				
	3		TOY Filtro	LHION			
\parallel	Water 5% L.T . Worker 500 57 To4 Filtration To4						
	Patroleum Oil 0/0 95 _ Petrols	wm <i>011 95%</i>					
	b. Water Olo 341 ld. Water	r 5% LT	.TO4 Filtration To4 Filtra	TON G			
П	15. Special riandling Instructions and Additional Information NOT EPA REGULATED. REGULATED AS HAZARDO	US WASTE IN NJ. 11a.	ERG #27 BICS.	7			
	NOT EPA REGULATED. REGULATED AS HAZARDO 24 HOUR EMERGENCY PHONE: 201-427-2881	9) B146 2 337	c) 2000	1			
\parallel	NJ DECAL# 55/82	y = 0 = -1	<i>j</i> = • _	12			
		B) BIQ 2534	D) Bidg 2067				
	 GENERATOR'S CERTIFICATION: I hereby declare that the contents of classified, packed, marked, and labeled, and are in all respects in pregovernment regulations. 	this consignment a. Muily and accurate oper condition for transport by highwa	y according to applicable international and na	nd are ational			
$\ \ $	If I am a large quantity generator, I certify that I have a program in place	to reduce the volume and toxicity of w	aste generated to the degree I have determined	to be			
	economically practicable and that I have selected the practicable method future threat to human health and the environment; OR, if I am a small gi	l of treatment, storage, or disposal curr	ently available to me which minimizes the prese	nt and			
	the best waste management method that is available to me and that I c		and on one to minimize my waste generation and	30.000			
	Printed/Typed Name	Signature 1. alah Gr	1 — Al Month Day	Year			
Ц	YOSEP'11'1' FG1101)	Joseph 1	1. TOURSHOOLZ	77			
핆	17. Transporter 1 Acknowledgement of Receipt of Materials		^_				
A	Printed/Typed Name	Signature	Month Day	Year			
S P	David S. Smith	- avis) Miss 105/12	1714			
잁	18. Transporter 2 Acknowledgement of Receipt of Materials						
ORTER.	Printed/Typed Name	Signature	Month Day	Year			
十	19. Discrepancy Indication Space	 		·			
F				į			
Ĉ							
				1			
1	20. Facility Owner or Operator: Certification of receipt of hezardous materia	ls covered by this manifest except as r	cted in Item 19.				
₹┟	Printed/Typed Name	Signature	Month Day	Year			
- 1			1 1 1	1 1 1			

EPA Form 8700-22 (Pay, 3/88) Previous editions are obscieta. 1 — TSD MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES !

U.S. ARMY, FORT MONMOUTH UST HAZARDOUS WASTE TRACKING FORM (ONE PER EACH CONTAINER)

SOURCE (BLDG.#)	NJDEPE WASTE CODE	QUANT. (GAL.)	HANDLERS NAME/COMPANY	DATE/TIME
2067	× 722	6 gal	Cate-Gens	5/10/94
9000	x 7,10	4.	100	
	•			
	2067	(BLDG.#) WASTE CODE 2067 × 722	(BLDG.#) WASTE CODE (GAL.) 2067 × 722 6 gal	(BLDG.#) WASTE CODE (GAL.) NAME/COMPANY 2067 X DDD 6 gal Carter-Geng B

THIS CONTAINER WAS ACCEPTED INTO (CIRCLE ONE) MP / CW / EA HAZARDOUS WASTE STORAGE AREA ON

(DATE)	BY	
(GOV. REP.) THIS FORM MUST ACCOMPANY THE CONTAINER COMPLETED AND SIGNED BY THE GOVERNMENT		
THIS FORM MUST ACCOMPANY THE CONTAINER	UNTIL A MANIFEST	IS CASIC NOTONIE
COMPLETED AND SIGNED BY THE GOVERNMENT	HAZARDOUS WASTE	NJB 190888)
COORDINATOR OR HIS REPRESENTAITIVE	•	Carpolel
		6238-94

Bldg. 2067 - ×722 - 6gal - NJA 1908881



State of New Jersey Department of Environmental Protection and Energy Hazardous Waste Regulation Program Manifest Section

CN 421, Trenton, NJ 08625-0421

or aftered feeters tours and much of some and and any susmitting time, were set throught and the set of the

1999 李朝日日 建二层明日日

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.) See The Form Approved. OMB Note 1809-0039. Expires 9-30-9-1. Generator's US EPA ID No. 🕬 Manifest Space Spa 2. Page 1. **UNIFORM HAZARDOUS** Informatic la not rec WASTE MANIFEST Generator's Name and Mailing Address

S. Army E Communications Electrionics (Command Name of Army E Communications Electrionics (Command Name of Army E Communications Electrionics (Command Name of Arms Electrionics (Command Na Generator's Phone Capital Looksy VII Salvage, Inc. US EPA ID Number 6.* State Trans: ID-NUD Lecal Decal TA Casie/Ra Protenk US EPA ID Number Transporter 2 Company Name D. Transporter's Phone P E. State Trans, ID-NUDE Decal No. Designated Facility Name and Site Address US EPA ID Number Casie Ecology Oil Salvage, Inc. TA Casie/Protank F. Transporter's Phone (3209 N. Hill Road H. Facility's Phone (60%) Vineland, NJ 08360 NJD 0 4 5 9 9 56 4 3 12. Containers y γ∽αρ Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) Total Туре Quantity a. i Oil contominated solide Hon D.O.T. regulated i i prima di ANS HIVE b. c. d. 2044 2450 Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional Information This is a RJ regulated weste not a RCRA hexardous waste. AND BUT STORY 24 hr emergency response \$609-696-4401 Grag Clifford 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proces hipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable in transport and national If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree to economically practicable and that I have selected the practicable method of treatment. government regulations. economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which him the practicable method of treatment, storage, or disposal currently available to me which him the practicable method of treatment, and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature harts 17. Transporter 1 Acknowledgement of Receipt of Materials RANSP Printed/Typed Name Signature 11 18. Transporter 2 Acknowledgement of Receipt of Materials F OFF Printed/Typed Name Signature animino a Month Day 19. Discrepancy Indication Space · V-WO -257 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature



EEHOLD CARTAGE, INC.

P.O. BOX 5010 FREEHOLD, NJ 07728-5010 PHONE: (908) 462-1001 FAX: (908) 308-0924

175 BARTOW MUN. AIRPORT BARTOW, FL 33830 PHONE: (813) 533-4599 FAX: (813) 533-1613

108 MONAHAN AVENUE DUNMORE, PA 18512 PHONE: (717) 342-7232 FAX: (717) 342-7367

STATE MANIFEST NO.:

MANIFEST

FCI EPA ID NO .: NJD054126164

G52559

(X) HM	PF	ROPER U.S. DOT SHIPPING NAME	U.S. DOT HAZARDOUS CLASS	PACKING GROUP	NA/UN NO.	FORM	NET QTY.	UNIT MEASURE
	1	NOW-HAZARDOUS WASTE-WATER	NA	NIA	NIA	Lia	5500	G
	2.			1 1	1			·
-								
	3							
		. HANDLING INSTRUCTIONS INCLUDING CO STED).	NTAINER EXEMPTION (I.E., IDENTIFICAT	ION SHIPMENT C	OF A NON-HAZARI	DOUS NATURE V	VHICH DOES NOT	HAVE TO BE
					i Joele	15939 -	23520	
GE	NERA	ATOR NAME/ADDRESS	PHONE		GE	NERATOR EP	A ID NO. NO	Peg.
	-	RMY COMMUNICATIONS	(AREA CODE) 532	-6223	۱ ا			
		CTRENICS COMMAND POST AND CHANGE WOOD	TRACTOR	TRAILER		ME AT GENER		RY TIME ONLY)
		T MONMOUTH NJ	63	3i	4 -	ARRIVAL TIM		ARTURE TIME
FC	REP.	LOADING (PRINT) PRO	CEDURE BOX SPOTTED	BOX REM	AOVED 5	OUIPMENT US	D Sites	GAL.
	1	Povid Smith	- I X	\rightarrow	- RU	815 707	33-226	2400
co	MMEI	NTS OR DELAYS AT GENERATOR			0/	1 1100 815	733-168	100
1.					Old a	9. 1108	3486-37	34300
GE	VERA	ATOR'S CERTIFICATION: This is to certif	y that the shove named materials are	Dronerty classifi				d are in proper
∞n	dition	for transportation according to the applicat ansported named. The Treatment, Storage	ble regulations of the Department of Tra	respontation, U.S.	. EPA and the Sta	ate. The wastes	described above	were consigned
fore	going	is true and correct to the best of my knowl to the contractor for waste removal does	edge.	,			•	
agr	ed ra	ate offered to the contractor.			tor does not pay	the Callier, the		
	NERA	TOR/S/SIGNATURE?	PLEASE PRINT NAM	IE/TITLE	Emari	Prot Jen	DATE LOADE	77/04
X		E BOAD THE ABOVE AND UNDERSTAND AND AGRE INTENT.	ETOALLOF Charles M	, Aspldy	SELFM	-PW-EV	MO. D/	Y YR.
TSI	OF NA	ME/ADDRESS	PHONE			DF EPA ID NO.		
E	工	DUPONT COMPANY	((AREA CODE) 540	דרב – כ	3 1/1	TOIN	ا8 الحال	471317
		MBERS WORKS RT #	130 TRACTOR	TRAILER		TIME AT TSE	<u></u>	ARY TIME ONLY)
1		PUATER NJ 080	1 1 3 1	314	4 -	: ARRIVAL TIM		: ARTURE TIME
_			OCEDURE BOX SPOTTED	BOXR	EMOVED	EQUIPMENT U		ATTORIC TIME
	D	lavid Smith)	X			· ,
co	MME	NTS OR DELAYS AT TSDF						
TSI	OF SK	GNATURE	PLEASE PRINT NAM	AE/TITLE	<u>-</u> -		DATE UNLOA	
1						•		27/94
X.							1 110 5	
X							<u>'</u>	AY YR.
	H-02 PC 9		MO H-1490 NOVA : ND WH-429 OH 333 NH TNH-0047 OK 333	3-HW	DA NSC 000 14	RI I	BEC, CANADA Q RI-535 40705	AY YR.

PA PA-AH-0067

NY JA-113

SWH-1540

MN 61572

E.I. DU PONT DE NEMOURS AND COMPANY CHAMBERS WORKS WASTE TREATMENT FACILITY

Part I. Land Disposal Restrictions Status Form

The purpose of this form is to ensure that all wastes accepted for treatment at Chambers Works are correctly classified and treated in accordance with the land ban requirements. After August 8, 1990, all shipments of wastes for treatment and disposal at Chambers Works must be accompanied by a completed Land Disposal Restrictions Status Form.

- 7	DISPOSAL RESTRICTIONS STATUS FORM Anust check one box and sign the form on the reverse side.)	
Ø	1. This waste is not hazardous under U.S. EPA regulations (40 CFR Part 261). Waste Description NON - HAZAROUS WASTE - WATER	
<u>.</u>	2. This waste is a newly listed or newly characteristic hazardous waste and is not yet subject to the land ban.	t
	Newly Listed Wastes and the second of the se	
•	Code Waste Description	
•	Code Waste Description	
	Newly Characteristic Wastes Wastes previously subject to Bevill exemption.	•
	Code Waste Description	•
•	Wastes that are hazardous after September 25, 1990 due to toxicity characted D018 Benzene D031 Heptachlor (and its h D019 Carbon tetrachloride D032 Hexachlorobenzene D020 Chlordane D033 Hexachloro-1,3-butad D021 Chlorobenzene D034 Hexachloroethane D022 Chloroform D035 Methyl ethyl ketone	ydroxide)
, unio	D023 o-Cresol D024 m-Cresol D025 p-Cresol D026 Cresol D027 1,4-Dichlorobenzene D028 1,2-Dichloroethylene D029 1,1-Dichloroethylene D030 2,4-Dinitrotoluene D041 Vinyl chloride	e Soun L

	3.	This waste is a	land disposal re	stricted waste requiry you must complete F	ing treatment beforest II—I and Dien	ore land.	
	•	Restrictions No	tification Form				•••
		Californ	nia List becaus	se of			· · ·
•	•		· · · · · · · · · · · · · · · · · · ·	5 5 6 40 W	State of the state		• .
		First Tr	urd, Second Thi	ird, or Third Third w	raste.		
	is	and a second		Sugar to Same	grift in and the	2.612, 0 . 1 . 2 . 256.6	Ç.
	4.			lly hazardous waste			
	;	must complete	Part II—Land I	strictions standards." Disposal Restrictions	Notification Form	box, you	
			h.		•••	The second second	·\$:
•				nonwastewaters (TC			
		diluted to meet		s, and EP toxic pestici	ides DU12-DU17 ca	nnot be	
•	•	Charles to meet	, die deadlient 3	Manuarus.j	71.2		
	•	I certify under	penalty of law	that I have personall	y examined and a	m familiar	ب
		with the treatm	ent technology	and operation of the	treatment process	used to	G:
		support this cer	runcation.and, c	based on my inquiry of blaining this informa	or those individua. Ition. I believe tha	t the	:
		treatment proce	ess has been ope	erated and maintained	i properly so as to	comply	- ,
		with the perfor	mance levels sp	ecified in 40 CFR par	rt 268, Subpart D,	and all	
		applicable proh	ubitions set fort	th in 40 CFR 268.32 or n of the prohibited w	r RCRA Section 30	U4(d) that there	
		are significant	penalties for su	bmitting a false certi	fication, including	the	
		possibility of fi	ne and imprisor	nment		•	
	. 4					· ·	
	5.	Inis waste is a	land disposal re	estricted waste subject	t to a	•	*
		Nation	al Capacity Va	ariance that expires		or	
			a. Capacity /	mane. mar enpire	· · · · · · · · · · · · · · · · · · ·		
	.· - ·•	Case-b	y-Case Extensi	ion that expires	• • • • • • • • • • • • • • • • • • • •		
					•	•	
		Code	Waste Descri	iption	• • • •		
				Contract to the second		·•	
				t complete Part II—La	ınd Disposal Restr	ictions	
	•	Notification Fo)m.				• .
	6.	. This waste is no	ot described by t	the entries on this for	m.	•	
3·	76. A	· Please explain	h <u></u>	·		·	
	•9	rus an air airid	79. 50	Same and the			•
•::1:	ا سمین ا			, b j. ang - ' a a' a	t trans		
	اووه احداد	na i di kalaman dari					• .
CEI		The state of the state of	Article Control		* 11	•	•••
CET	3715 1	Million by Mills Samous and Samo				•	• •
	ATIFI		eren eren eren			•	
	lieve	that all the jn	formation su	bmitted in this de	ocument is true	e, accurate,	
	-16	that all the jn	formation su	• • •		Super- Super-	
and	lieve	that all the jn	formation su	• • •	ocument is true Post Spe	e, accurate, Stofm-	PI-E V
	lieve com	that all the inclete.	formation su	Emino		Super- Super-	PN-EV
and	lieve	that all the inclete.	formation su	• • •		Super- Super-	PW-EV
and	lieve com	that all the inclete.	formation su	Enviro (Prot. Spe.	Super- Super-	PV-E V
and	Signa	that all the inclete.	formation su	Enviro (Super- Super-	PW-EV

APPENDIX D UST DISPOSAL CERTIFICATE

UNDERGROUND STORAGE TANK REMOVAL (UST)

	<u>UNDERC</u>	GROUND STORAGE TAN	NK REMOVAL (UST)
		(Submit one form for each	tank)
		·	5 p19 z 486 - 37
Building No.	2067	NJDEPE UST Reg. No	JUSTERIES FIG.

IJO No. 91-0148

Date Tank Removed ___ 5/16/94

ITEM NO.	ITEM OF WORK	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
01100-1.1	Rmv ID#27 soil to stockpile	TN	\$14.50	302,43	\$ 4,385,24
01100-1.2	Supply, fill & relocate 55 Gal containers to storage	СТ	\$47,50		\$ N/A
01100-1.4	Rmv & dispose of #2 fuel mixed with water Manifest #:NJA	GL	\$ 0.69	3572	\$ 2::464.68
01100-1.5	Rmv & dispose of #2 fuel mixed with solvent Manifest #:NJA	GL	\$ 4.50		\$ N/A
01100-1.6	Rmv & dispose of diesel fuel	GL	\$ 0.69		\$ N/A
01100-1.7	Rmv & dispose of diesel fuel mixed with water Manifest #:NJA	GL	\$ 0.69		\$ N/A
02050-1 & 02050-4	Tank removal	GL	\$ 0.975	550	\$ 536.25
02050-5.1	Sawcut blacktop *	TN	\$27.50	36.09	\$ 992.48
02050-5.2	Sawcut concrete *	TN	\$29.50		\$ N/A
02050-5.3	Sawcut reinforced concrete	TN	\$32.50		\$ N/A
02222-1.1	Backfill cert. clean fill *	TN	\$16.25	196,29	\$ 3.189.71
02222-1.2	3/4" clean stone "	TN	\$17.50_	106.14	\$ 1,857.45
02511-1.1	Concrete slab 4" thick	SY	\$19.80		\$ N/A
02511-1.2	Concrete slab 6" thick	SY	\$21.80		\$ N/A
02511-1.3	Concrete slab 8" thick	SY	\$24.50		\$ N/A
02511-1.4	6" Concrete curb	LF	\$16.00		\$ N/A
02551-1.1	6" Base course of 3/4" dirty blend stone	SY	\$ 6.40	٠	\$ N/A
02551-1.2	4" stabilized base	SY	8.00		\$ N/A
02551-1.3	2" top course	SY	\$ 5.50		\$ N/A
02935-1.1	4" top soil & sod	SY	\$ 7.80		\$ N/A
02935-1.2	4" top soil & hydroseed	SY	\$ 5.40		\$ N/A

^{*} Supply certified weight tickets to Contracting Officer at time of request for payment.

\$13,425.81

I certify under penalty of law that tank decommissioning activities were performed in compliance with NJAC 7:14B-9.2(b)3. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines

NAME (Print or Type):john_Lonergan_SIGNATURE:/ NJDEPE UST Closure Cert. #:0003248DATE:	
AME (Print or Type):john_Lonergan SIGNATURE:	SIGNATURE: John Iregan
ME (Print or Type):john_Lonergan SIGNATURE:	DATE: June 9/ 1994
COMPANY NAME: CUTE, Inc.	•
NJDEPE UST Closure Corp. Cert. #: 0200128	<u> </u>

List of Abbreviations:

CT = 55 Gallon Container GL = Gallon EA = Each SY = Square Yard

TN = Tons

CALCULATION SHEET

Building No. 2047

Tank Size 550 gal

NJDEPE Reg. No. No # Tank Void 3.8 tons

CLEAN FILL

ITEM NO. 02222-1./ '/ '/ '/ '/ '/ '/ '/ '/ '/ '/ '/ '/ '/	DESCRIPTION Clear fill ii ii ii ii ii ii ii ii ii	QUANTITY 22.8 21.1 22.41 21.75 22.4 22.8 22.13 TOTAL 200.09 STONE	TICKET # /8707 /8708 /8709 /8719 /8720 /8722 /8723 /8724 /8725
ITEM NO. 62222-1.2 //	DESCRIPTION 3/4" Shace	QUANTITY コフ・21 セン・87 ユン・84 セフ・22	TICKET # 92920 4 93070 / 931287 931807

TOTAL /06.14

ID#27 soil to stockpile (200.09 + 106.14) -3.8 = 302.43 tons

Chargeable clean fill 200.09 - 3.8 = 196.29 /out

Chargeable stone 106.14

FREEHOLD CARTAGE, INC.



P.O. BOX 5010 FREEHOLD, NJ 07728-5010 PHONE: (908) 462-1001 FAX: (908) 308-0824

C. U. T. E.

178 BARTOW MUN. AIRPORT BARTOW, FL 33830 PHONE: (818) 533-4599 FAX: (818) 533-1613 109 MONAHAN AVENUE DUNMORE, PA 18612 PHONE (717) 842-7232 FAX: (717) 842-7287

1

MANIFEST FCI EPA ID NO.: NJD054126164

G 52559

			_		STA	AM STA	NIFES?	r N	O.:		
(X)	PF	OPER U.S. DOT SHIPPING NAME	U.S. DOT	HAZA	RDOUS CLASS	PACKING GROUP	NAUN N	0.	FORM	NET QTY.	UNIT MEASURE
	1	NOW-HATARDOUS WASTE - WATER		N	la	NIA	NI	4	Lia	5500	G
	2			1		76-					
	3										
SP	ECIAL	HANDLING INSTRUCTIONS INCLUDING OF	NTAINER EXE	MPTION	(I.E., IDENTIFICATI	ON SHIPMENT	ofanon-ka	ZARDO	S NATURE V	VHICH DOES NOT	HAVE TO BE
MA	MILES	ete).				,	y Joen	E /	<u> 5</u> 939 -	_235z	0
GE	NEP	TOR NAME/ADDRESS		PHONE				GEA	EPATOR EPA	IDNO. AJO	+ Der
_		RMY COMMUNICATIONS	·	(AREA	8 8 8 8 8	- 622	3	1	111	111	19
172	N, es	KTRONIES COMMAND R. 1 And Chadre like	Acres	TRACT	OFI	TRAILER	_	TIN	EATGENER	_	ARY TIME ONLY)
		T MONHOUTH NJ			63		14	Ŀ	APPIVAL TIM	E DE	PARTURE TIME
FC	REP	LOADING (PRINT) PR	OCEDURE"		BOX SPOTTED	BOX RI	MONED	!		≌ 5/2s. 33-226	GHG
	<u>১</u>	Pavid Smith			<u>*</u>		<u>* </u>	Bli	<i>72.</i> 7		2400
CC	MME	NTS OR DELAYS AT GENERATOR						BL.	. Ifna	533-168	does
								RI	3/67 M	13486-37	3700
Pa Pa	vgoire ymen med r	susported named. The Treatment, Storag g is true and correct to the best of my know to the contractor for waste removal does also disease in the contractor.	vledge.	•	•	_					
1		HORY SIGNATURE!		1	EASE PRINT NAM	-	, Fa	. Ly . L!	Prist Su	1	ED
X	HA	E READ THE ABOVE AND UNDERSTAND AND AS	REE TO ALL CIF	1	Maries 11	A. Arre	4/562	, 2,0	-12 6	<u></u>	27/94 XY 78
TE	OF N	ALIE/ADDRESS	1	PHON		· · · · · · · · · · · · · · · · · · ·	- 1	Tel	DE EPA ID NO		•
		. Dupont compan			1886) 54		73	N	<u> 1 11 9</u>	021318	
		hubbers mokki blu h	L.	TRAC	NOR	TRAILER	t		TIME AT TS	of (Mili	ARY TIME ONLY
			ROCEDURE		90XSPOTTED		RENOVED	╀.	ARIRIVAL TU EQUIPMENT L		PARTURE TIME
ľ	7	David Smith	NOCEDONE		-X-		X	'	EWORMEN !	1961)	
10		ENTS OR DELAYS AT TOOF	*****		<u> </u>			1			
ķ.		•									
1	_	RIGINATURE		F	LEASE PRINT NA	MELLUTE				DATELINA	·
Z	-									MO.	DAY YR.
G	E DE	287 ME ME-HWT-47 . 1944 ME-WOT-47 . 1944 MD HWH-167 . 194200	ND V HA LA	1-1490 VII-429 CNM-00 B-0205 TG588 LA-113	OH \$5 OK 35 ONTA	SCOTIA, CAI 38-HW 958 IPIO, CANADA A-AH-0067		000 14	RI TX	EBEC, CANADA PI-826 40705 11602	QC-6ML-647

۱. ۲. _۱.

in case of an embyency or spit lemmedicinely set the article the emergency occurred to and the N.J. Asps. of Environments) feelection and Ensigy. (Dub) 292-7172

C. U. T. E.

1045	a type of print is clock lettors. (Some designed for use on ellis (12-pitch) typewriter.)	Form Approved, CMB No. 2060-0039. Expline 9-30-81
	UNIFORM HAZARDOUS 1. Generator s us apa id No. WASTE MANIFEST N: J' 2' 2' 1. 0! 0! 2' 0' 9. 7 8 0' 3' 7' 7' 3	2 Page 1 Information in the shaded areas is not required by Federal law.
:	C. Gameracors Moore and Mouling Address US Army Communications Electronics C	
	Charles Wood Area, c/o James Shirghio, Bldg 2504 ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ 07703	NJA 1603193 B. State Generator's ID
	ATTN: SELECTOL-EM-MS, FOTE MODIMULET, NJ 07703	
lΓ	5. Iransporter 1 Company Name 6. US 8FA IO Number	SAME
-	Freehold Cartage, Inc. NJ:D:0.5:4:1:12:6:11:6:4 7. Transports 2 Company Name 8. U3 SPA:D Number	C. State Trans. ID NJDEPE 52265
H		2. Transporter's Phone (908 / 462-1001
	5. Designated Figure Aims and She Address Lionetti Oil Recovery, Co., Inc.	
	Runyon & Cheesequake Rds.	F. Tigraconar's Phone ()
11	Old Bedden MT OBSST	3 Slota Facility's ID 4 Facility's IPport (908 1 721–0900
	12 Cor	153151 13. 14.1
	11. US 201 Description Providing Proper Stripping Name, majors Table and D. V. Soper No.	Total Unit Waste No.
	a X Petroleum Oil, N.O.S. Class 3 (Petroleum Oil)	
1	Combustible Liquid UN 1270 PG III	XX523G X 7 12 12
ē	2: . Patroleum Oil, N.O.S. Class 3	.
	X Combustible Liquid UN1270 PGIII DO	ITTXX222G X722
3	" W Petrolaum Oil, N.O.S. Class 3	
õ	X Combustible Liquid UNIZTO FETT PO	177XX775GX722
,	" V Retroleum Qil, Nio.S. Closs 3	
	X Combustible Liquid UNIZ70 PETIT DO	1 X X 5 7 2 6 X 7 2 2
	J. Academia Descriptions in the seasons of Patro brum O: 1 95010 Petroleum O:1 95010	K. Handana Codes for Waster Listed Above
		704 Stration
	15 to trol eum 0.1 06 95 Petro (sum 011 95%)	Tot Filtration Tot 1
$\ \ $	5 water 010 3 4T. Water 5 40 4	ToTO4 Filtration Tel Filtration
1	18. Season of the ing indications and Acquirona Interviews HAZARDOUS WASTE IN NJ. 11.	E. ERG #27 Blos.
	24 HOUR EMERGENCY PHONE: 201-427-2881 4) 5143 2 33	7, 9,2000
	NJ DECAL 55/82 B) BIQ 2534	1 Bldg 2067
	16. QENERATOR'S CERTIFICATION: I harmy caciate that the contents of this considerant at faulty and and cassada, packed, mattered, and labored, and are in all respects in prepar condition for transport by high covernment regulations.	initisty described allows by proper shipping rame and are liway according to applicable international and national
H	If I am a large quantity generator, I destily that I have a program in place to reduce the volume and toxicity	of waste generaled to the degree) have determined to be
	economically gracidosials and that I have selected the translands method of traument, storage, or disposal to future threat to human health and the environment; CR, If 2 m 2 and 6 countly carefular, I have made a go the best waste management method that is divisible to me and that I can allord.	not (sign elloy to winimiss må sasts Squelation stot totels The array sasteds in mis suice legitures and blacklik and
	Printed/Types Name	Manth Cay Year
	Toseph III. Fallon bolephi	11. TOULTH POILERY
Ä	17. Transdomer 1 Acknowledgement of Receipt of Materials FrankovTyged Name Signetics	Month Cay Year
	David S. Smith Land	OSILIZIAIS
ğ	18. Trensponer 2 Acknowledgement of Receipt of Materials	
TRANSPORTER	ProtaciTication Protaction ProtaciTication ProtaciTication Protaction Protactica Protaction Protactica Protaction Protactica Protacti	Month Day Yest
۴	18. Discissionity indication Space	
Á		
Į,		•
į	20. Sacuty Corner or Capitation Cartification or raceupt of recording Halemain covered by this maintest except	as nova a nem 19,
Ý	Printed Types Nome Righalline	Month Day Year
L	PA Form \$773-52 * ye 1-121 1-recourt entered and ampairs, SIGNATURE AND INFOR	MATION JUST SE LEGISLE CN ALL COPIES
•	eracing august ya maa maraka ka angang. Gibera (din galing alifora angang. Gibera (din galing alifora angang a	SECTIONS WHEN A MAN HAND REASON AS A LINE AND STATE STATE

Blda Soc	MAZZA & SONS, INC. OCO - CO 192486-1 Metal Recyclers Auto and Truck 3230 Shafto Rd. Tinton Falls, NJ (908) 822-8292				NO		
	Cushmer's Hame		ute luc	•		٠.	
Make of Autos	Address					Wälgis	Price
G)	2000 00192 2010 00 00192		- 42160 LB 6 39790 LB 6		Cast kon Sicel - Li Iron Copper #1 Copper #2		67.60
Tank Proces:			3380		Li Copper Bress Alum Clean Lead Stairless Radistors		by Salah
3		MAY 18	1991		Bettery TOTAL AMOUNT	:	¥
}	espher			m Elle	<u></u>	<u></u>	

MAZZA & SONS, INC.

Recycling Division

3230 Shafto Road • Tinton Falls, N.L 07753 · (908) 922-9292

Asphalt 74933

Recycling Material Receipt Form

	Customer:	•••	Cite	105	A. A. Marian	
	Address:	F-37	19 24			
	Date:	MA 94				
		,	: . : 3: 5: 5			
•		:	41	860 LD 6		
ck/Container No	<u>Day</u>		207	430	Conciele:	
	# <u> </u>	21		1940	Asphak	1 685
iðyd-	•	•			Slumpa	
20 yd	•		-177 14874	/	772 Brush Wood ::	
30 yd	•	·		:	Pallets	
10 yd	•	• • •			Glass	
50 yd .					Tres Painted W	and
	•				Shingles	
					TOTAL	COD
•	:	1				
ihmaster:	•	11	A men	Custome	- Done	C

MAZZA & SONS, INC.

Recycling Division

3230 Shafto Road • Tinton Falls, NJ 07753 . (908) 922-9292 Asphall 74957 for 2067

Recycling Material Receipt Form

•	A 4010111111	utc.	100		·		
	Address:		nd pick	<u> </u>			•
	Job Location:	Eur				•	Ţ
•	Date: 2	3 mas	1.94	4			34.
				*			
	٠. ·		•••				
•					1,000		
Truck/Container No			45	160	Congrele	-1114	130 1 6
License Plate/D.E.F	* XA13 4	291	279	4-	(Asphalt)		25 July
□ 10 yd	, -	,	279	120	Stumps		e 1 · · · · · · · · · · · · · · · · ·
-			_		Brush		
C) 20 yd	•		-	100 au f	Weod		·
□ 80 yd			ここ	7.740	Pallets		
□ 40 yd					Glass		
-				18.	7 Tires		
□ 50 yd				. 18.	Painted Wood		
•					87 Shingles		
			•	10		COQ.	BALL
_					TOTAL:		,
•		٠,			TO INC.		
•		J	• .		no no		1.
Weighmaster:	•	- d	. **	Customer:	Don Show	•	
				,			
بالاحتمادية واستريشها الطفر	i ma dia da dinga ang mang	erletarni bent transis	and the publication		on Anna Land Colombia Colombia	actions.	آ ناگ فارشنس اسلامات

5.C.M.I. BUIND BROOK

CUSTOMER'S COPY

A-929206

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. • 909/356-5700

X X DIFFWERS SIGNATURE

RECEIVED A ACCEPTED BY:

CUSTOMER'S SIGNATURE

HAMILTON ROAD TINTON FALLS, N.J.

OFF PUBLIC ROADS.

THIS COMPANY WILL NOT BE RESPON-

SIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS

CRUSHED_STONE . SAND

GRAVEL

ADDRESS REPLY TO

P.O. BOX 482 RED BANK, N.J. 07701

EXPLANATION OF BELIVERY CODES

1 - F.O.B.

2 - DELIVERED

3 - NET DELIVERED

											ITEI CELITER		
	DATE	05/2	0/24,	CUST. NO.	98888	J08 NO.	1		- 89 : 58 '	TICKÉT IRO,	9	R9206	
, c	USTOM			,		DELIVER TO	ZONEFET		louth .	GROSS	. 39.	\$1	
•	CLEANING UP THE ENVIORMENT 103 GODWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 97432			TARE NET			TARE 12,00						
•							27.	27.2Ĭ :-					
· 1	NÇKER		TRUCK NO	2.	DAIVER NO.	METHOD OF	PAYMENT			DELIVERY C	ODE	ZONE	
Hem	12	¥19	1		} ·	CHARGE		•			≥ .	030	• 1
HOHO	UANTITY		PRODUCT	200E/DE	CRIPTION	UNIT OF MEADURE	UNIT PRIC		EXTENDED	FREIGHT	SALES TAX	TOTAL.	
	27	7, 21	13 3/	4 INC	H CLEAN &	т	1			4.35]	,
_	MARKE	5				j	, cons		il 'zemies	WA	T TIĶĪĒ		À .
S	12	125°C	P0	()()	Con	()	LOADS 2		u. 'TONS 47.82		IAND DTAL		

S.C.M.I. - BOUND BROOK STAVOLA

CUSTOMER'S COPY

CONTROL NO. A-930771

Stavola Construction Materials, Inc.

PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. + 908/856-5700

DRIVERS SIGNATURE

RECEIVED & ACCEPTED BY

CRUSHED STONE

٠. .

SAND

25.87

GRAND TOTAL

	-OFF-PUI	CUPUM VIJE		~~			•			8 -	NET DELIVER	ED	
DAT	E 05/2		UST. NO.	08888	JOB LON			10:39)	NO.	9	30771	•
CUST	OMER		7		DELIVER TO	ZLSRE	IFT MO	NMOUTH		GROSS	39.	17	
. f	CLEANING UP THE ENVIORNMENT 103 GODWIN AVE. P.O. BOX 237 MIDLAND PARK NJ 07432							13.30					
TRUCI		TRÚCK NO.	4	DAVERNO.	METHOD OF	PAYMEN	T	· 		DELIVERY C		JZONE	
. 3	36370 .	1			CHARGE	- 4			٠.	£	2	030,	
UN OUAN	TRY	PRODUCT CO	DE/DESC	RIPTION	UNIT OF MEASURE	, UN	IT PRICE	EXTENDED		FREIGHT	SALES TAX	TOTAL	
7	25. 87	13 3/4	INCH	CLEAN S	T	أسر	<i>u</i>			4.35		• •	
COMM	SHE	•,	+		•	LOB	OS A	COU. TONS	} .	, WAI	T TIME	, ,	

. . .

1

S.C.M.I. - BOLIND AGOOD



A-931287

Stavola Construction Materials, Inc.

PLANT: CHRANEY ROCK ROAD, BOUND BROOK, N.J. - 908/356-5760

<u>X ____</u>

HIVER'S SIBNATURE

HAMILTON ROAD TINTON FALLS, N.J. CUSTOMER

CRUSHED STONE . SAND

GRAVEL

ACCRESS HEPLYTO

P.O. BOX 482 RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPON-STBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS EXPLANATION OF DELIVERY CODES

1 - F.O.B.

2 - DELIVERED

8 - NET DELIVERED

	C) F PUBLICITATION					<u> </u>		8 -	8 - NET DELLYERED			
DATE	96/8	1/94	CUST. NO.	98886	JOB NO.		Ø9 1 E9	TICKET NO.		31,286		
CUSTON	MER				1	ZONE:FT MON		GROSS	39.	69		
CLEANING UP THE EMVIORNMENT			1	ALL' / GOLF	COARSE 9	TARE 13.95		95 .				
MI	P.O. BOX 237 MIDLAND PARK NJ 87432			A3 ^{ma}	•		NET 25.84					
TRUCKE 16	979	TRUCK N	io.	DRIVER NO.	CHARGE			DELIVERY C		ZONE		
UQUANTIT	Υ	PRODUCT	CODE/DE	SCRIPTION	UNIT OF MEAGURE	UNIT PRICE	EXTENDED	FREIGHT	SALES TAX	TOTAL		
2	5. 84	13 3/	4 INC	H ELEAN S	7			4. 35				
COMMENT	COMM ENTS			 	!	.e.k o 	WAI	TIME				
				_		LDADS AC	Cu. Tons ' 53.06		AND			



CUSTOMER'S COPY

A-931807

Stavola Construction Materials, Inc. PLANT: CHIMNEY ROCK ROAD, BOUND BROOK, N.J. - 908/358-5700

EXECUTIVE OFFICE
HAMILTON ROAD
JINTON FALLS, N.J.
SOA542-2328

~ · · · · · CRUSHED STONE

P.O. BOX 462 RED BANK, N.J. 07701

. Barrie

開制

THIS COMPANY WILL NOT BE RESPON-SIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

LANATION OF DELIVERY CODES

FO.B.

DELIVERED

MET DEL PASSED

						3 - MEI DELIVERED					:D ·			
:	DATE	26/0	1/94	CLIST.	88889.	aol Jon	íţ.	•	. 09:26	•	TICKET NO.	9,	31807	
:	CUSTO		<u></u>			DELIVER TO	ZUNE	FT MON			GROSS	40.1	32	Agenta
•	CLEANING UP THE ENVIORMMENT 193 GODWIN QUE. P.O. BOX 237 MIDLAND PARK N. 197432			GIBBS HALL / GOLF COARSE			TARE 13.60							
•					-]	· (•	NET 27.82			•		
•		78€	TRUCK	NO.	DRIVER NO.	CHARGE	1.3	4			DELIVERY C	ODE	ZONE	
i DE	QUANTI	ſΥ	PRODUC	T CODE/DE	CRIPTION	UNET OF	- 4 DNi	CPRICE	EXTENDED	•	FREISHT	SALES TAX	TOTAL	
	*\$	7.02		14 INC	H CLEME P	T.		•			4. 35			
2	COMMENTS			LOADS ACCU. TONS WAIT TIME		TTIME		:						
						•	r card	a Mu	.27.22		GR	AND		

Name Lig Address Bldg	6 /cqN F/11		18707 July 1999 Gon
(tem(s)	Cluantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	6) 7/600		
	T 26000	22.8 tons	
	N 45600		:
2 × 13 ×66			-
Driver 280	\$	Sub Total	:
Pecelved Section 1	8 0. n.	Deilvery	
* Company pot responsible for identics	Sone off public reads, Color not guerenteed	N.J. Tax	<u></u>
Have green	l will travel! 1925	Total	

Name Bry Address	908-493-3333 () Trull 191	Order Date Deliver Date Delivered F.O.B./P.U.	18708
liem(s)	Quantify / Measure (tons, lbs., yds., ea.)	Unit Price	. Total
	68 200		
	T 21.000	21-10 tons	
	N 45500		
Driver	•	Sub Total	
Received * All Bally in		Delivery	•
* Company not reflacted by the sor diffrage of	ione off public roads. Color not guaranteadi	N.J. Tax	
Manufacture grave	l will traveli 1925	Total:	

NameAddress	Sij	1463 W. Park Ave., Ways Asbury Park, N.J. 0771: 908-493-3333	9	18709
	item(s)	Quantity / Measure (tons, fbs., yds., ee.)	Unit Price	. Total
		9 70810		
		T 26:000	22.41 tons	
		N 44810	•	
Driver	ĵ .	15.00 Comments	Sub Total	
Fig.	1. Marine	4/4/8/8/8/8/8/8/8/8/8/8/8/8/8/8/8/8/8/8	Delivery	•
** Company no	t responsible for damage	done of public rollds. Gifter not guerranteed!	N.J. Tax	
	Have grav	drugt back product	Total	•

Name Big Address	1463 W. Park Ave., Waysin Asbury Park, N.J. 07712 908-493-3333	•	18719
item(s)	Quantity / Measure (tons, lbs., lyds., ea.)	Unit Price	. Total !
	G 69500 .		
	T 26000	21-75 tons	
	N 43 700		
Driver //	STEN WA	Suib Total	
Received :	S. Anose	Delivery	••
* Company not responsible for damed	ge done off public roads Color not glara libed	N.J. Tax	
Have gra	wel well travelly an armine	Total	

Name Dig	1453 W. Park Ave., Wayerd to Send & Gravel Co. Asbury Park, NJ. 07712 908-493-5333		18720
fiem(s)	Quantity / Measure (tons, Iba., yds., ea.)	Unit Price	. Total
•	G 7/200	·	The state of the s
	7 2: . 10	22.6 tons	
	N 42200		
	· · · · · ·		
Driver	With the state of	· Sub Total	•
Received	7507	Delivery	
* Company not responsible for dam	age done of guida isalia. Colof hipt guaranteedi	N.J. Tax	
Acoe go	nevel will travelly	Total	-

Name Pic	1453 W. Park. Ava., Wayer and & Gravet Co. Asbury Park, N.J. 0771: 908-483-3333	Order Date Order Date Delivered [F.O.B./P.U.[•
(term(s)	Cuantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
. J.		71600	
1		26,000	22,8 tons
* .		7:600	
Orbies		Sub Tôtel	
CONTROL	3/8	Delivery ,	1 1 1
ompany not responsible to Adamage	Agree of pitalinic roads. Color not guaranteed	N.J. Tax	11.
Mante oraci	et a et travel! ~1925	Total	

	1453 W. Park Ave., Ways no Sand & Gravel Co. Asbury Park, N.J., 0771 808-493-3333 F 1 7	· -	18723 442.7 17 19
:hem(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
		7020	
		26000	22. 13 4005
•		44250	•
1			,
Driver	**************************************	Sub Total	
Received PU		Delivery	•
2	age to be public reads. Color not guaranteed	N.i. Tax	
Allen gr	niget juill travell inch 1925	Total	•

Neme Big A	908-493-3333 Tr-ck/mj.	Order Date Order Date Deliver Date Delivered F.O.B./P.U.	18724 /// // // // // // // // // // // // //
(tem(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	. Total
•		70,000	
		26,000	22 tons
		44,000	
100			: :
Drive Ti Sund	Albert & TEA	Sub Total	
Received 1.1-3	THE PERSON NAMED IN COLUMN NAM	Delivary	
•	gone of public founds. Coop not guaranteed	N.J. Tax	
Have grav	e 1925 ministration	Total	•

Address	1453 W. Park Ave., Ways Asbury Park, N.J. 0771 908-493-3333	מו	18725 1. // // COD. Charge
item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
		71000	•
		46000	22.5+
		45000	
Driver	Jun CEN Western	Sub Total ·	· ·
Pendud	13 000 F	Delivery	
* Company not responsible for demage	done of public roads. Color not gurrenteed	N.J. Tax	
Have grad sinc	ed well travel	Total	

UNDERGROUND STORAGE TANK REMOVAL (UST)

(Submit one form for each tank)

Building No2067	NJDEPE UST Reg. No.	
IJO No. 91-0148	Date Tank Removed	

<u> </u>					
ITEM NO.	ITEM OF WORK	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
01100-1.1	Rmv ID#27 soll to stockpile	TN	\$14.50		3
01100-1.2	Supply, fill & relocate 55 Gal containers to storage	СТ	\$47.50		3
01100-1.4	Rmv & dispose of #2 fuel mixed with water Manifest #:NJA	GL	\$ 0.69		3
01100-1.5	Rmv & dispose of #2 fuel mixed with solvent Manifest #:NJA	GL	\$ 4.50		\$
01100-1.6	Rmv & dispose of diesel fuel	GL	\$ 0.69		\$
01100-1.7	Rmv & dispose of diesel fuel mixed with water Manifest #:NJA	GL	\$ 0.69		•
02050-1 & 02050-4	Tank removal	GL	\$ 0.975		\$
02050-5.1	Sawcut blacktop * ,	TN	\$27.50	33.41	\$ 918.78
02050-5.2	Sawcut concrete *	TN	\$29.50		\$
02050-5.3	Sawcut reinforced concrete	TN	\$32.50		\$
02222-1.1	Backfill cert. clean fill *	TN	\$16.25		\$
02222-1.2	3/4" clean stone *	TN	\$17.50_		\$
02511-1.1	Concrete slab 4" thick	SY	\$19.80		\$
02511-1.2	Concrete slab 6" thick	SY	\$21.80		3
02511-1.3	Concrete slab 8" thick	SY	\$24.50		3
02511-1.4	6" Concrete curb	LF	\$16.00		\$
02551-1.1	6" Base course of 3/4" dirty blend stone	SY	\$ 6.40		\$
02551-1.2	4" stabilized base	SY	8.00	1	3
02551-1.3	2" top course	SY	\$ 5.50		3
02935-1.1	4" top soil & sod	SY	\$ 7.80		3
02935-1.2	4" top soil & hydroseed	SY	\$ 5.40		8

* Supply certifie	ed weight tickets to Contracting O	officer at time of request for payme	ent. \$	918.78
	penalty of law that tank decommis there are significant penalties for ment.			
NAME (Print or	Type): George Bernots	ky SIGNATURE:	matte.	
NJDEPE UST C	Closure Cert. #: 0003249	DATE: <u>8/12/94</u>		
	ME: CUTE Inc			
NJOEPE UST C	Closure Corp. Cert. #: <u>020012</u>	<u> </u>	•	
lst of Abbreviat	tions:			

CT = 55 Gallon Container GL = Gallon TN = Tons EA = Each SY = Square Yard



STAYOLA ASPHALT CO.-TIN. FALLS

OFFICE COPY

Stavola Asphalt Co., Inc. **ASPHALT PLANTS**

Old Bergen Mill Rd. Millstone, NJ (908) 446-7700

Hamilton Rd. Tinton Fells, NJ (908) 542-2328 Yellowbrook Rd. Farmingdale, NJ (908) 938-2801

CONTROL NO. B362020

THESE AREAS MUST BE SIGNED PRIOR TO UNLOADING OF MATERIAL

NOTE

ATTENTION DRIVER:

CUSTOMER MUST SIGN BELOW AND RETURN YELLOW COPY TO SCALE

RECEIVED A ACCEPTED BY:

USTOMER'S SKINATURE

EXECUTIVE OFFICE HAMILTON ROAD TINTON FALLS, NJ 906 / 542-2928

ASPHALT STONE CRUSHED

SAND GRAVEL

ADDRESS HEPLY TO P.O. BOX 452 RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPON-SIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING OFF PUBLIC ROADS. **MATERIALS** **EXPLANATION OF DELIVERY CODES**

1 - F.O.B.

*19

DELIVERED

NET DELIVERED

JOB NO. CUST. TICKET **Ø7/12/94 48888** 13:59 NO. NO. ISTOMER ELIVER TO 20ME: CLEAN UP ENIVERMENT TARE 18.32 tons TANDEM **WCKER** METHOD OF PAYMENT DELIVERY CODE TRUCK NO. DRIVER NO. CHARGE **\$888** YTITALL PRODUCT CODE/DESCRIPTION UNIT PRICE EXTENDED FREIGHT SALES TAX TOTAL LD. 1.00 48 RAP INCOMING WAITING TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER H/WAIT TUNEOLO ACCU. TONS TIME OFF JOB LOADS E ON JOB GRAND 4.00 TOTAL (BIGNATURE)



STAVOLA ASPHALI CO. -TIN. FALLS

OFFICE COPY Stavola Asphalt Co., Inc.

ASPHALT PLANTS

Old Bergen Mili Rd. Milistone, NJ (908) 446-7700

Hamilton Rd. Tinton Falls, NJ (908) 542-2328 Yellowbrook Rd. Farmingdale, NJ (908) 938-2801 CONTROL NO. B362012

THESE AREAS MUST BE SIGNED PRIOR TO UNLOADING OF MATERIAL ATTENTION DRIVER: NOTE **CUSTOMER MUST SIGN BELOW** AND RETURN YELLOW COPY TO SCALE

DRIVER'S SIGNATURE

MECEIVED & ACCEPTED BY:

CUSTOMER'S SIGNATURE

EXECUTIVE OFFICE HAMILTON ROAD TINTON FALLS, NJ 808 / 542-2328

ASPHALT CRUSHED STONE . SAND GRAVEL

ADDRESS REPLY TO P.O. BOX 482 RED BANK, N.J. 07701

THIS COMPANY WILL NOT BE RESPON-SIBLE FOR DAMAGE CAUSED BY VEHICLES DELIVERING MATERIALS OFF PUBLIC ROADS.

EXPLANATION OF DELIVERY CODES

1 - F.O.B.

2 - DELIVERED

3 - NET DELIVERED

2/94 NO.	8888	305 80,	•	12151	TICKET	3	62012
P ENIVERN	ENT .	DELIVER TO Z	_	.09 tons	TARE	1500	80°.
TRUCK NO.	DRIVER NO.	METHOD OF PA	YMENT		DELIVERY, C	ODE	ZONE
PRODUCT COD	E/DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTÉNDED	PREIGHT	SALES TAX	TOTAL
48 RAP	INCOMING	LD.	1	ł		• "	
TIME OVER	20 MINUTES MU	IST BE SIGNI	ED BELOW BY	CUSTOMER	H/WA	IT TOMEZO	
TIME O	r Job	X	<u>୍ପର</u> ପଞ୍ଜ ନା ଓ.	CCU. TONS 3.00			
	TRUCK NO. TRUCK NO. 1 PRODUCT CODE 48 RAP TIME OVER:	TRUCK NO. DRIVER NO. 1 PRODUCT CODE/DESCRIPTION 48 RAP INCOMING TIME OVER 20 MINUTES MI	PRODUCT CODE/DESCRIPTION TIME OVER 20 MINUTES MUST BE SIGNI	PRODUCT CODE/DESCRIPTION THE OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY	DELIVER TO ZONE I TRUCK NO. DRIVER NO. METHOD OF PAYMENT CHARGE PRODUCT CODE/DESCRIPTION METHOD OF PAYMENT 48 RAP INCOMING LD. TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OFF JOB LOADS ACCU. TONS 3. 3. 300	DELIVER TO ZONE I TRUCK NO. DRIVER NO. METHOD OF PAYMENT CHARGE PRODUCT CODE/DESCRIPTION MEASURE UNIT PRICE EXTENDED FREIGHT TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER AND STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BE SIGNED BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BY CUSTOMER TO STATE OF THE OVER 20 MINUTES MUST BY CUSTOMER	PRODUCT CODE/DESCRIPTION TIME OVER 20 MINUTES MUST BE SIGNED BELOW BY CUSTOMER TOTAL TOTAL TRUCK NO. 088888 NO. 12151 NO. 3 GROSS TARE TA

APPENDIX E SOIL ANALYTICAL DATA PACKAGE

APPENDIX F GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

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

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: UST/Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2067

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
562	2067MW01	29-31778	02/02/01
563	2067MW02	29-31779	02/02/01

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

METHODOLOGY SUMMARY

TARGET ANALYTE LIST Standard Methods, 18 th ed. Aluminum 3120B Antimony 3120B Barium 3120B Beryllium 3120B Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Selenium 3120B Sodium 3120B Sodium 3120B Federal Register 40 CFR Part 136 Appendix A Base/Neutrals and Acid 625	PARAMETER	REFERENCE
Antimony 3120B Arsenic 3120B Barium 3120B Beryllium 3120B Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Selenium 3120B Sodium 3120B Thallium 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 138 Appendix A	TARGET ANALYTE LIST	Standard Methods, 18 th ed.
Arsenic 3120B Barium 3120B Beryllium 3120B Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Marganese 3120B Nickel 3120B Potassium 3120B Selenium 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Aluminum	3120B
Barium 3120B Beryllium 3120B Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Marganese 3120B Nickel 3120B Potassium 3120B Selenium 3120B Solium 3120B Thallium 3120B Vanadium 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Antimony	3120B
Beryllium 3120B Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Arsenic	3120B
Cadmium 3120B Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Marcury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Barium	3120B
Calcium 3120B Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Marcury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Beryllium	3120B
Chromium 3120B Cobalt 3120B Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Cadmium	3120B
Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Calcium	3120B
Copper 3120B Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Chromium	3120B
Iron 3120B Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Cobalt	3120B
Lead 3120B Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Copper	3120B
Magnesium 3120B Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Iron	3120B
Manganese 3120B Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Lead	3120B
Mercury 3112B Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Magnesium	3120B
Nickel 3120B Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Manganese	3120B
Potassium 3120B Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Mercury	3112B
Selenium 3120B Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Nickel	3120B
Silver 3120B Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Potassium	3120B
Sodium 3120B Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Selenium	3120B
Thallium 3120B Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Silver	3120B
Vanadium 3120B Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Sodium	3120B
Zinc 3120B TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Thallium	3120B
TARGET COMPOUND LIST Federal Register 40 CFR Part 136 Appendix A	Vanadium	3120B
136 Appendix A	Zinc	3120B
	TARGET COMPOUND LIST	136
	Base/Neutrals and Acid	
Extractables by GC/MS		-
Purgeable Organcis by 624 GC/MS	Purgeable Organcis by	624
Pesticides and PCB's by GC 608	Pesticides and PCB's by GC	608

SAMPLING



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:	DEAS)	Project No:				Analysis Parameters						Comments:		
Phone #: X 14	15	· Location: 6	1067 wel	ls									1	110. 1
()DERA ()OMA (start ') .	Vo +15							Read	HCL/HNO3/24°C
Samplers Name / Con	npany: Corey Mela	mach , TV	S	Sample	#	10/	As						7	
Lims Sample I.D.	Sample Location	Date	Time	Туре	bottles								ヹ	Remarks / Preservation Method
502 a 502	2067 MW01	2/2/01	1428	AQ	3	/	~	3.1					0.0	29 - 31778
565 .02	2067 mw 02		1456	1	3	/	/	1.7					0.0	29-31779
		·	- · · · - · · · -											
														pH mw 01 hm
			: , 											pH mw 01 hm is very high: 11-12 su
	· · · · · · · · · · · · · · · · · · ·			ļ										<u> </u>
														
														· · · · · · · · · · · · · · · · · · ·
										-				
														
Relinquished by (signatur	/ 1- / /	Received by (signature): Relinquished by (signature):			gnature): Date/Time: Received by (sign			signature):						
Relinquished by (signatur		Received by (signature):		Relinquished by (signature): Date/Time: Received by (signature):			- · · · · · · · · · · · · · · · · · · ·						
٦/	Reduced, ()Styndard, ()Screen					Rema					Shu	45T/1	FB/0	from CWG Sm dfe.
Turnaround time: Ostandard 3 wks, ORush Days, OASAP Verbal Hrs.														

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: 2067 MW#: 2067MW01 NJDEP ID #: 29-31778 **NJDEP CERT #: 13461**

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/02/01

WEATHER: Overcast, and cold.

TIDE: N/A

LNAPLs: N DNAPLs:N

ELEV. OF INNER CASING SURVEY MARK: N/Aft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 4.08 ft DEPTH OF WELL: 10.25 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 6.17 ft (6.17) X .65 X 3 = 12.03

GALLONS OF H2O TO BE PURGED: 12 gal

PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm):

PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 13:35

pH 12.05 su

DISSOLVED O2 4.71 ppm

TEMP 8.7 °C

SPECIFIC CONDUCTIVITY 2.14 us/cm

PURGE END TIME: 14:27

pH 11.04 su

DISSOLVED O2 4.21 ppm

TEMP 8.4 °C

SPECIFIC CONDUCTIVITY 2.17 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.79 ft

(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 12 gal

SAMPLE START TIME: 14:28

pH 11.03 su

TEMP 8.1 °C

DISSOLVED O2 4.20 ppm

SPECIFIC CONDUCTIVITY 2.15 us/cm

SAMPLE END TIME: 14:30

COMMENTS: Very high pH. Recalibrate instrument still high pH.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: 2067 MW#: 2067MW02 NJDEP ID #: 29-31779 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/02/01

WEATHER: Overcast, and cold.

TIDE: N/A

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/Aft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 4.30 ft** DEPTH OF WELL: 13.75 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.45 ft (9.45) X .65 X 3 = 18.42

GALLONS OF H2O TO BE PURGED: 18 gal

PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm):

PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 13:37

pH 4.57 su

TEMP 9.7 °C

DISSOLVED O2 5.47 ppm

SPECIFIC CONDUCTIVITY 455 us/cm

PURGE END TIME: 14:55

pH 4.59 su

TEMP 9.6 °C

DISSOLVED O2 4.87 ppm

SPECIFIC CONDUCTIVITY 457 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 6.83 ft

(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 18 gal

SAMPLE START TIME: 14:56

pH 4.59 su

TEMP 9.6 °C

DISSOLVED O2 4.85 ppm

SPECIFIC CONDUCTIVITY 456 us/cm

SAMPLE END TIME: 14:58

COMMENTS:

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL: Method Detection Limit

J : Compound identified below detection limit

B: Compound found in blank

D: Results are from a dilution of the sample
 U: Compound searched for but not detected
 E: Compound exceeds calibration limit

PQL: Practical Quantitation Limit

NLE: No limit established

RT: Retention time

VOLATILES

Data File Operator

Date Aquired

VC004877.D

Skelton 5-Feb-01 Sample Name

MB

Field ID

MB 020501

Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	1
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	Ť
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane		1 - 1	not detected	nle	1.68 ug/L	1
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	1
75-00-3	Chloroethane		<u> </u>	not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane		† 	not detected	nle	0.50 ug/L	
75-35-4	1.1-Dichloroethene		1	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	
75-34-3	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	
156594	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	0.33 ug/L	
56-23-5	Carbon Tetrachloride		 	not detected	2	0.23 ug/L 0.47 ug/L	+
71-43-2	Benzene Benzene		 	not detected	1	0.47 ug/L 0.23 ug/L	+
107-06-2	1,2-Dichloroethane		1	not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		1	not detected	1	0.23 ug/L	1
78-87-5	1,2-Dichloropropane		1	not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane		 	not detected		0.45 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		1	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 Ethylbenzene		 	not detected	700	0.59 ug/L 0.65 ug/L	
1330-20-7	m+p-Xylenes		+	not detected	nle	0.63 ug/L 1.14 ug/L	+
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
			 		100		+
100-42-5	Styrene		 	not detected		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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		NJDEP#: 13461	WIB 0205	01
Project:	LTM	Case No.: 562-56	B Location: 2067 S	SDG No.:	
Matrix: (soil/\	water)	WATER	Lab Sample ID:	MB	<u>.</u>
Sample wt/vo	ol:	5.0 (g/ml) ML	Lab File ID:	VC004877.D	_
Level: (low/r	ned)	LOW	Date Received:	2/2/01	
% Moisture:	not dec.		Date Analyzed:	2/5/01	
GC Column:	RTX50	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume:	(uL)	Soil Aliquot Volu	ıme:	_ (uL)
		С	ONCENTRATION UNITS:		
Number TICs	s found:	(U	g/L or ug/Kg) UG/L		
CAS NO.	•	COMPOUND NAME	RT E	ST. CONC.	Q

Data File

VC004906.D

Operator S Date Aquired

Skelton 6-Feb-01 Sample Name

562

1

Field ID

2067MW01

Multiplier

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	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718_	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane		·	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride		<u> </u>	not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane		<u> </u>	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	8.84	9867869	153.83 ug/L	700	1.36 ug/L	E
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	
75-34-3	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	15.24	372463	8.91 ug/L	300	0.62 ug/L	
156594	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		T - T	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		T T	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		1	not detected	3	0.48 ug/L	
27-18-4	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	1
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	T
00-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	<u> </u>
330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
00-42-5	Styrene			not detected	100	0.56 ug/L	
5-25-2	Bromoform		 	not detected	4	0.70 ug/L	
9-34-5	1,1,2,2-Tetrachloroethane		1	not detected	2	0.47 ug/L	T
41-73-1	1.3-Dichlorobenzene		 	not detected	600	0.55 ug/L	
06-46-7	1.4-Dichlorobenzene		 	not detected	75	0.57 ug/L	1
05-50-1	1,2-Dichlorobenzene		1	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

Data File Operator

Date Aquired

VC004908.D

Skelton 6-Feb-01 Sample Name

562

Field ID

2067MW01

Multiplier 5

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	9.25 ug/L	
107131	Acrylonitrile			not detected	50	13.90 ug/L	L
75650	tert-Butyl alcohol			not detected	nle	42.60 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.80 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	8.40 ug/L	
74-87-3	Chloromethane			not detected	30	5.80 ug/L	
75-01-4	Vinyl Chloride			not detected	5	5.30 ug/L	1
74-83-9	Bromomethane			not detected	10	5.50 ug/L	
75-00-3	Chloroethane			not detected	nle	5.05 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	2.50 ug/L	
75-35-4	1.1-Dichloroethene			not detected	2	1.20 ug/L	† ·
67-64-1	Acetone	8.85	2071714	163.91 ug/L	700	6.80 ug/L	D
75-15-0	Carbon Disulfide			not detected	nle	2.30 ug/L	1
75-09-2	Methylene Chloride			not detected	2	1.20 ug/L	1
156-60-5	trans-1,2-Dichloroethene		 	not detected	100	0.80 ug/L	†
75-34-3	1,1-Dichloroethane			not detected	70	0.60 ug/L	1
108-05-4	Vinyl Acetate			not detected	nle	3.90 ug/L	
78-93-3	2-Butanone		 	not detected	300	3.10 ug/L	
156594	cis-1,2-Dichloroethene		 	not detected	10	0.85 ug/L	
67-66-3	Chloroform		1	not detected	6	1.50 ug/L	<u> </u>
75-55-6	1,1,1-Trichloroethane			not detected	30	1.15 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	2.35 ug/L	
71-43-2	Benzene		 	not detected	1	1.15 ug/L	<u> </u>
107-06-2	1,2-Dichloroethane		†	not detected	2	0.90 ug/L	
79-01-6	Trichloroethene		 	not detected	1	1.15 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	1 1	2.00 ug/L	
75-27-4	Bromodichloromethane		 	not detected	1	2.75 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	3.25 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	3.45 ug/L	
108-10-1	4-Methyl-2-Pentanone		-	not detected	400	2.95 ug/L	1
108-88-3	Toluene		 	not detected	1000	1.85 ug/L	1
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	4.35 ug/L	
79-00-5	1.1.2-Trichloroethane			not detected	3	2.40 ug/L	
127-18-4	Tetrachloroethene		 	not detected	1	1.60 ug/L	
591-78-6	2-Hexanone		<u> </u>	not detected	nle	3.55 ug/L	
126-48-1	Dibromochloromethane		 	not detected	10	4.30 ug/L	
108-90-7	Chlorobenzene		 	not detected	4	4.30 ug/L 1.95 ug/L	
100-41-4	Ethylbenzene		 	not detected	700	1.95 ug/L 3.25 ug/L	
1330-20-7	m+p-Xylenes	<u> </u>	 	not detected	nle		
1330-20-7	o-Xylene		 	not detected	nle	5.70 ug/L	
			 			3.10 ug/L	<u> </u>
100-42-5	Styrene		 	not detected	100	2.80 ug/L	
75-25-2	Bromoform		 	not detected	4	3.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		 -	not detected	2	2.35 ug/L	_
541-73-1	1,3-Dichlorobenzene		<u> </u>	not detected	600	2.75 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.85 ug/L	ļ
95-50-1	1,2-Dichlorobenzene		<u> </u>	not detected	600	3.20 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:
--------------	-----

Lab Name:	FMETL			NJDEP:	#: 13461	_	206/MV	/01
Project:	LTM	Cas	se No.: 562-	563 Locat	ion: 2067	SI	DG No.:	
Matrix: (soil/	water)	WATER	_	ا ا	Lab Sample	ID:	562	
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID:		VC004906.D	
Level: (low/r	med)	LOW	_	ı	Date Receiv	/ed:	2/2/01	
% Moisture:	not dec.			•	Date Analyz	ed:	2/6/01	
GC Column:	RTX5	02. ID: <u>0.2</u>	25 (mm)	i	Dilution Fac	tor:	1.0	
Soil Extract \	/olume:		_ (uL) .	;	Soil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0	_	CONCENTR (ug/L or ug/k				
CAS NO.		COMPOU	ND NAME		RT	ES	T. CONC.	Q

Data File Operator

Date Aquired

VC004907.D

V C004907.D

Skelton 6-Feb-01 Sample Name

563

Field ID

2067MW02

Multiplier

1

107131	CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
175650 text-Buryl alcohol text-Buryl ether not detected nle 8.52 ug/L 108203 Di-Isopropi ether not detected nle 0.25 ug/L 108203 Di-Isopropi ether not detected nle 0.25 ug/L 175718 Dichlorodifluoromethane not detected nle 1.68 ug/L 1748-73 Chloromethane not detected nle 1.68 ug/L 175-10-14 Vinyl Chloride not detected 5 1.06 ug/L 175-10-14 Vinyl Chloride not detected 5 1.06 ug/L 175-10-14 Vinyl Chloride not detected 1 1.10 ug/L 175-00-3 Chloromethane not detected nle 1.01 ug/L 175-00-3 Chloromethane not detected nle 1.01 ug/L 175-60-4 Tichlorofluoromethane not detected nle 0.50 ug/L 175-60-4 Tichlorofluoromethane not detected nle 0.50 ug/L 175-10-1 Carbon Disulfide not detected nle 0.50 ug/L 175-15-10 Carbon Disulfide not detected nle 0.46 ug/L 175-15-2 Carbon Disulfide not detected nle 0.46 ug/L 175-00-2 Methylene Chloride not detected 2 0.24 ug/L 175-00-2 Methylene Chloride not detected 2 0.24 ug/L 175-00-3 1.1 Dichloroethane not detected 0.10 ug/L 175-00-3 2.3 ug/L not detected nle 0.10 ug/L 175-00-3 2.3 ug/L not detected nle 0.10 ug/L 175-00-3 2.3 ug/L not detected nle 0.10 ug/L 175-00-4 nle nle nle nle nle nle nle 175-00-5 nle nle nle nle nle nle nle nle nle 175-00-7 nle nle nle nle nle nle nle nle 175-00-7 nle n	107028	Acrolein			not detected	50	1.85 ug/L	
1634044 Methyl-tert-Butyl ether not detected 70 0.15 ug/L	107131	Acrylonitrile			not detected	50	2.78 ug/L	
108203 Di-isopropyl ether	75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
175718	1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
74-87-3	108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
73-01-4 Vinyl Chloride	75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
174-83-9	74-87-3	Chloromethane			not detected	30	1.16 ug/L	T
75-90-3 Chloroethane not detected nle 0.50 ug/L	75-01-4	Vinyl Chloride		T	not detected	5	1.06 ug/L	1
175-69-4 Trichlorofluoromethane not detected nie 0.50 ug/L	74-83-9	Bromomethane			not detected	10	1.10 ug/L	
175-69-4 Trichlorofluoromethane not detected nie 0.50 ug/L	75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
1,1-Dichloroethene		Trichlorofluoromethane			not detected	nle		
Acetone					not detected	2	0.24 ug/L	
75-09-2 Methylene Chloride not detected 100 0.16 ug/L 156-60-5 trans-1,2-Dichloroethene not detected 100 0.16 ug/L 157-34-3 1,1-Dichloroethene not detected 70 0.12 ug/L 108-05-4 Vinyl Acetate not detected nle 0.78 ug/L 178-93-3 2-Butanone not detected 100 0.17 ug/L 178-93-3 2-Butanone not detected 100 0.17 ug/L 178-93-3 Chloroform not detected 100 0.17 ug/L 179-55-6 1,1,1-Trichloroethane not detected 300 0.23 ug/L 179-55-6 1,1,1-Trichloroethane not detected 300 0.23 ug/L 179-23-2 Benzene not detected 2 0.47 ug/L 179-24-3 Benzene not detected 2 0.47 ug/L 179-20-6 1,2-Dichloroethane not detected 2 0.18 ug/L 179-20-6 1,2-Dichloroethane not detected 1 0.23 ug/L 179-27-4 Bromodichloromethane not detected 1 0.23 ug/L 179-27-4 Bromodichloromethane not detected 1 0.23 ug/L 189-75-8 2,-Chloroethyl vinyl ether not detected 1 0.40 ug/L 110-75-8 2,-Chloroethyl vinyl ether not detected 1 0.55 ug/L 110-8-8-3 Toluene not detected nle 0.65 ug/L 108-88-3 Toluene not detected 1000 0.37 ug/L 108-88-3 Toluene not detected 1 0.45 ug/L 127-18-4 Tetrachloroethene not detected 1 0.32 ug/L 127-18-5 2-Hexanone not detected 1 0.32 ug/L 127-18-6 2-Hexanone not detected 1 0.32 ug/L 127-18-6 2-Hexanone not detected 1 0.32 ug/L 129-18-6 2-Hexanone not detected 1 0.32 ug/L 129-18-6 1,2-Trichloroethane not detected nle 0.65 ug/L 1330-20-7 n-ty-Xylene not detected nle 0.62 ug/L 1330-20-7 not detected nle 0.62 ug/L 1330-20-7 not detected nle 0.62 ug/L 1330-20-7 not	67-64-1	Acetone			not detected	700		
75-09-2 Methylene Chloride not detected 100 0.16 ug/L 156-60-5 trans-1,2-Dichloroethene not detected 100 0.16 ug/L 157-34-3 1,1-Dichloroethene not detected 70 0.12 ug/L 108-05-4 Vinyl Acetate not detected nle 0.78 ug/L 178-93-3 2-Butanone not detected 100 0.17 ug/L 178-93-3 2-Butanone not detected 100 0.17 ug/L 178-93-3 Chloroform not detected 100 0.17 ug/L 179-55-6 1,1,1-Trichloroethane not detected 300 0.23 ug/L 179-55-6 1,1,1-Trichloroethane not detected 300 0.23 ug/L 179-23-2 Benzene not detected 2 0.47 ug/L 179-24-3 Benzene not detected 2 0.47 ug/L 179-20-6 1,2-Dichloroethane not detected 2 0.18 ug/L 179-20-6 1,2-Dichloroethane not detected 1 0.23 ug/L 179-27-4 Bromodichloromethane not detected 1 0.23 ug/L 179-27-4 Bromodichloromethane not detected 1 0.23 ug/L 189-75-8 2,-Chloroethyl vinyl ether not detected 1 0.40 ug/L 110-75-8 2,-Chloroethyl vinyl ether not detected 1 0.55 ug/L 110-8-8-3 Toluene not detected nle 0.65 ug/L 108-88-3 Toluene not detected 1000 0.37 ug/L 108-88-3 Toluene not detected 1 0.45 ug/L 127-18-4 Tetrachloroethene not detected 1 0.32 ug/L 127-18-5 2-Hexanone not detected 1 0.32 ug/L 127-18-6 2-Hexanone not detected 1 0.32 ug/L 127-18-6 2-Hexanone not detected 1 0.32 ug/L 129-18-6 2-Hexanone not detected 1 0.32 ug/L 129-18-6 1,2-Trichloroethane not detected nle 0.65 ug/L 1330-20-7 n-ty-Xylene not detected nle 0.62 ug/L 1330-20-7 not detected nle 0.62 ug/L 1330-20-7 not detected nle 0.62 ug/L 1330-20-7 not	75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
156-60-5 trans-1_2-Dichloroethene not detected 100 0.16 ug/L	75-09-2							
1,1-Dichloroethane not detected 70 0.12 ug/L	156-60-5					100		
108-05-4 Vinyl Acetate not detected nle 0.78 ug/L					not detected	70		
78-93-3 2-Butanone not detected 300 0.62 ug/L 156594 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 75-55-6 1,1,1-Trichloroethane 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 Trichloroethane not detected 1 0.23 ug/L 79-01-6 Trichloroethene not detected 1 0.23 ug/L 75-27-4 Bromodichloromethane not detected 1 0.40 ug/L 75-27-8 Bromodichloromethane not detected 1 0.40 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 1000 0.37 ug/L 108-88-3 Toluene not detected 1000 0.37 ug/L 109-00-5 1,1,2-Trichloroethane not detected nle 0.87 ug/L 109-10-26 trans-1,3-Dichloropropene not detected nle 0.87 ug/L 109-10-3 1,1,2-Trichloroethane not detected nle 0.87 ug/L 109-10-3 1,1,2-Trichloroethane not detected nle 0.71 ug/L 127-18-4 Tetrachloroethene not detected nle 0.71 ug/L 128-90-7 Chlorobenzene not detected nle 0.71 ug/L 130-20-7 n+p-Xylenes not detected nle 1.14 ug/L 130-20-7 nt-p-Xylenes not detected nle 0.62 ug/L 130-20-7 nt-p-Xylenes not detected nle 0.62 ug/L 100-41-5 Styrene not detected nle 0.62 ug/L 100-45-5 Styrene not detected not detected nle 0.62 ug/L 100-45-5 Styrene not detected 0.05 ug/L 100-46-7 1,4-Dichlorobenzene not detected 0.05 ug/L 100-46-7 1,4-Dichlorobenzene not detected 2 0.47 ug/L 100-46-6-7 1,4-Dichlorobenzene not detected 2 0.47 ug/L 100-46-7 1,4-Dichlorobenzene not detected 0.05 ug/L 100-46-7 1,4-Dichlorobenzene not detected 0.					not detected	nle		
156594 cis-1,2-Dichloroethene not detected 10 0.17 ug/L	_							
1,1-Trichloroethane not detected 30 0,23 ug/L								1
1,1,1-Trichloroethane not detected 30 0.23 ug/L								
Total Tetrachloride Total Total Tetrachloride Tetrachloride Tetr					not detected	30		
107-06-2 1,2-Dichloroethane not detected 1 0.23 ug/L								
107-06-2 1,2-Dichloroethane not detected 2 0.18 ug/L 79-01-6 Trichloroethane not detected 1 0.23 ug/L 78-87-5 1,2-Dichloropropane not detected 1 0.40 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 Toluen not detected 1000 0.37 ug/L 108-88-3 Toluen not detected nle 0.87 ug/L 109-00-5 trans-1,3-Dichloropropene not detected nle 0.87 ug/L 179-00-5 1,1,2-Trichloroethane not detected 3 0.48 ug/L 127-18-4 Tetrachloroethane not detected 1 0.32 ug/L 126-48-1 Dibromochloromethane not detected nle 0.71 ug/L 108-90-7 Chlorobenzene not detected 4 0.39 ug/L 100-41-4 Ethylbenzene not detected nle 1.14 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 2 0.47 ug/L 179-34-5 1,1,2-Tetrachloroethane not detected 2 0.47 ug/L 14-Dichlorobenzene not detected 100 0.56 ug/L 15-4-73-1 1,3-Dichlorobenzene not detected 2 0.47 ug/L 100-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L					not detected			
10.23 ug/L 10.23 ug/L 10.23 ug/L 10.24 ug/L 10.25 ug/L 10.27-4 10.25 ug/L 10.27-4 10.27-4 10.27-4 10.27-4 10.27-4 10.27-4 10.27-4 10.27-5 10.27-		1.2-Dichloroethane			not detected	2		
1,2-Dichloropropane not detected 1 0.40 ug/L		 '			not detected			
100-75-8 2-Chloroethyl vinyl ether not detected nle 0.65 ug/L					not detected			
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 179-00-5 1,1,2-Trichloroethane not detected 3 0.48 ug/L 127-18-4 Tetrachloroethene not detected 1 0.32 ug/L 1591-78-6 2-Hexanone not detected nle 0.71 ug/L 108-90-7 Chlorobenzene 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 4 0.70 ug/L 179-34-5 1,1,2,2-Tetrachloroethane not detected 2 0.47 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L					not detected	1		
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 179-00-5 1,1,2-Trichloroethane not detected 3 0.48 ug/L 127-18-4 Tetrachloroethene not detected 1 0.32 ug/L 127-18-6 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 nle 1.14 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 100-42-5 Styrene not detected 2 0.47 ug/L 179-34-5 1,1,2,2-Tetrachloroethane not detected 2 0.47 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L					not detected	nle		
108-10-1					not detected	nle		
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 2 0.47 ug/L 541-73-1 1,3-Dichlorobenzene not detected 600 0.55 ug/L 541-73-1					not detected	400	0.59 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 2 0.47 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 75 0.57 ug/L					not detected			
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		trans-1.3-Dichloropropene	- ``.		not detected	nle		
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	79-00-5			1 ' ' ' '	not detected	3		
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		· · · · · - · · · · · · · · · · · · · · 			not detected			
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	591-78-6				not detected	nle	0.71 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	126-48-1							1
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	108-90-7			†				
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	100-41-4					700		
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	1330-20-7					nle		
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		 						T
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								77
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				1 - 1 -				1
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				 				1
106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L				 				1
								1
	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

	V	OLATILE	ORGANI	CS ANAL	YSIS DATA	SHEET	FIELD ID.	
		TENTA	TIVELY I	DENTIFIE	D COMPOU	NDS		
Lab Name:	FMETL				NJDEP#:	13461	2067MW02	!
Project:	LTM	0	Case No.:	562-563	Location	2067 S	DG No.:	
Matrix: (soil/v	vater)	WATER		•	Lab	Sample ID:	563	.
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lab	File ID:	VC004907.D	
Level: (low/n	ned)	LOW			Date	e Received:	2/2/01	
% Moisture: r	not dec.				Date	e Analyzed:	2/6/01	
GC Column:	RTX50	2. ID:	0.25 (m	ım)	Dilu	tion Factor:	1.0	
Soil Extract V	/olume:		(uL)		Soil	Aliquot Volu	ıme:	(uL)
Niversham TIO	. 	6			NCENTRATI 'L or ug/Kg)	ON UNITS:	· ·	

Number 11Cs found:				
CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

METALS

Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory **N.IDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Received: NA Analysis Start: 02/14/01

Lab ID #: 562-563

Analysis Completed: 02/14/01

Site:

Ft. Monmouth

Building 2067

Matrix: Aqueous

Method of Analysis:

Std. Methods 18th, Method 3113B

Method of Digestion:

NA

TEST PARAMETER: ARSENIC

Laboratory	Sample Location	Result	GW Criteria	MDL
ID#	Identification	(ug/L)	(ug/L)	(ug/L)
Method Blank	NA	ND	8	1.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

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 #: 562-563

Sample Received: 02/02/01

Analysis Start: 02/14/01

Analysis Completed: 02/14/01

Site:

Ft. Monmouth

Building 2067

Matrix: Aqueous

Method of Analysis:

Std. Methods 18th, Method 3113B

Method of Digestion: N

TEST PARAMETER: ARSENIC

Laboratory	Sample Location	Result	GW Criteria	MDL
ID#	Identification	(ug/L)	(ug/L)	(ug/L)
562	2067MW01	3.1	8	1.0
563	2067MW02	1.7	8	1.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	Laboratory	Acetone	Methylene Chloride	Toluene	2- Butanone	2- Hexanone	4-Methyl-2 -Pent anone	Dimethyl sulfide	Arsenic	Depth to Water	Notes
Units:	-	ug/i	ug/l	ug/l	ug/l	ug/l	ug/i	ug/l	ug/l	Feet	•
NJDEP Criteria:		700	2	1000	300	NLE	400	NLE	8.0	-	-
05/22/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	•	8.63	V, S
06/14/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	•	9.30	V
11/05/1996	FMETL	-			-	•	-	-	39.1	5.44	As
02/20/1997	FMETL	960	ND	1.58	91	15	ND	ND	13.2	4.57	V, As
04/15/1997	FMETL	590	ND	ND	59	13	ND	24	16.0	4.75	V, As
09/03/1997	FMETL	73	15.2	ND	ND	ND	ND	9	31.8	5.90	V. As
12/04/1997	FMETL	1700	ND	ND	272	24	8.74	4	18.0	5.10	V, As
03/06/1998	FMETL	1400	ND	ND	149	17	ND	12	13.0	5.48	V, As
05/21/1998	FMETL	1100	ND	4.5	127	20	5.67	6	12.5	3.54	V, As
08/26/1998	FMETL	121.08	ND	1.70	11.78	ND	ND	ND	4.8	6.40	V, As
12/09/1998	FMETL	ND	ND	ND	ND	ND_	ND	ND	13.9	8.15	V, As
02/17/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	4.7	5.05	V, As
06/18/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	18.5	6.28	V, As
08/10/1999	FMETL	7.54	ND	ND	ND	ND	ND	ND	36.8	7.91	V, As
11/15/1999	FMETL	678.1	ND	ND	30.29	ND	4.18	ND	11.8	5.83	V, As
03/27/2000	FMETL	252.05	ND	ND	ND	ND	ND	ND	4.3	5.04	V, As
06/15/2000	FMETL	169.34	ND	ND	16.76	ND	ND	ND	14.0	5.30	V, As
08/31/2000	FMETL	466.83	ND	ND	10.45	ND	ND	ND	11.5	5.21	V, As
11/09/2000	FMETL	111.81	ND	ND	ND	ND	ND	ND	5.7	5.89	V, As
02/02/2001	FMETL	163.91	ND	ND	8.91	ND	ND	ND	3.1	4.08	V, As

SOURCE: 2067MW01

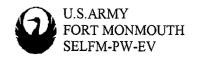
Sampling Dates: 05/22/1995 - 02/02/2001

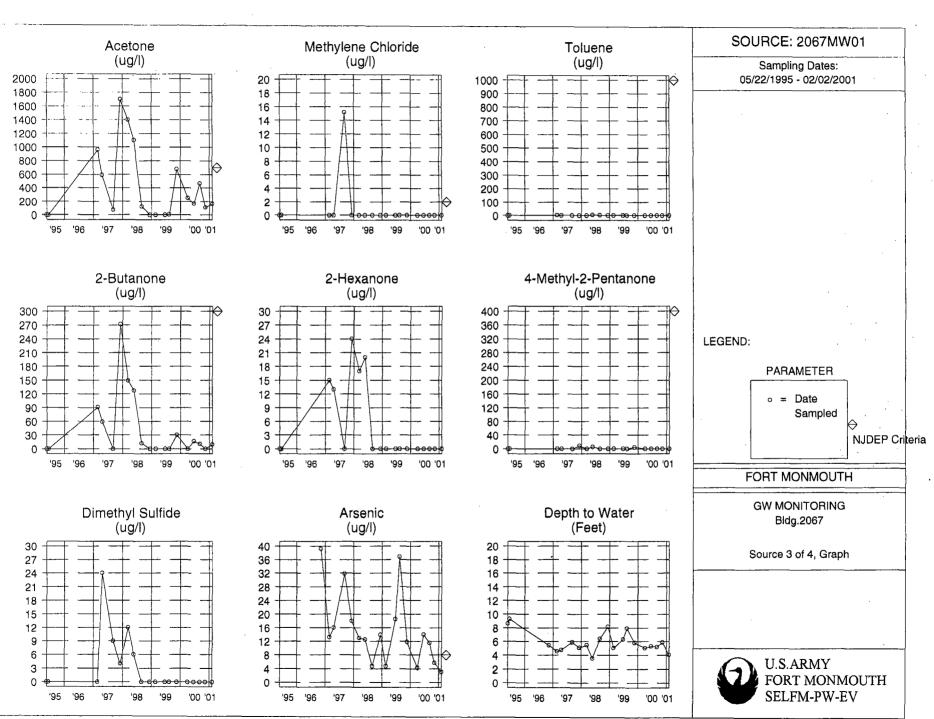
NOTES:

FORT MONMOUTH

GW MONITORING Bldg.2067

Source 3 of 4





	Laboratory	Acetone	Toluene	Unknown Hydro carbon	Arsenic	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:		700	1000	NLE	8.0	•	-
05/22/1995	EMSL	Z	ND	ND	•	8.96	V, S
06/14/1995	EMSL	ND	ND	ND	•	9.53	V
08/21/1996	FMETL	•	-	•	ND	7.0	As
11/06/1996	FMETL	ND	ND	ND	ND	7.30	V, As
02/20/1997	FMETL	ND	1.2	ND	ND	6.32	V, As
04/15/1997	FMETL	ND	ND	ND	4.0	6.35	V, As
09/03/1997	FMETL	ND	ND	ND	ND	7.00	V, As
12/04/1997	FMETL	DN	ND	6	0.1	6.6	V, As
03/06/1998	FMETL	ND	ND	10	1.0	6.21	V, As
05/21/1998	FMETL	ND	ND	ND	ND	6.01	V, As
08/26/1998	FMETL	5.73	ND	ND	2.6	6.40	V, As
12/09/1998	FMETL	ND	ND	ND	2.5	8.44	V, As
02/17/1999	FMETL	ND	ND	ND	1.0	6.62	V, As
06/18/1999	FMETL	ND	ND	ND	ND	8.01	V, As
08/10/1999	FMETL	ND	ND	ND	1.5	9.17	V, As
11/15/1999	FMETL	ND	ND	ND	1.1	7.30	V, As
03/27/2000	FMETL	ND	ND	ND	ND	6.34	V, As
06/15/2000	FMETL	ND	ND	ND	5.6	6.79	V, As
08/31/2000	FMETL	ND	ND	ND	ND	6.69	V, As
11/09/2000	FMETL	ND	ND	ND	ND	7.40	V, As
02/02/2001	FMETL	ND	ND	ND	1.7	4.30	V, As

SOURCE: 2067MW02

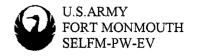
Sampling Dates: 05/22/1995 - 02/02/2001

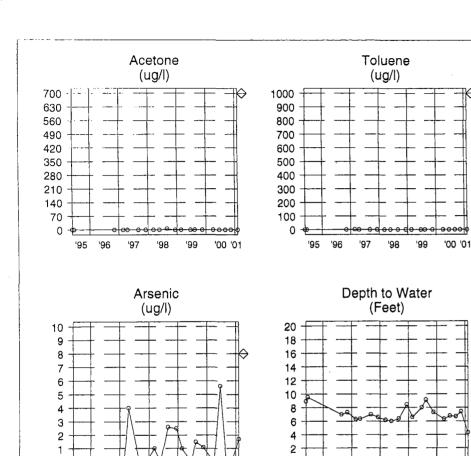
NOTES:

FORT MONMOUTH

GW MONITORING Bldg.2067

Source 4 of 4





'95 '96

'97

'98

'99

'00 '01

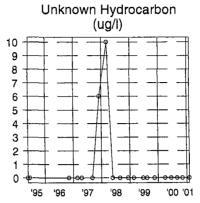
'95 '96

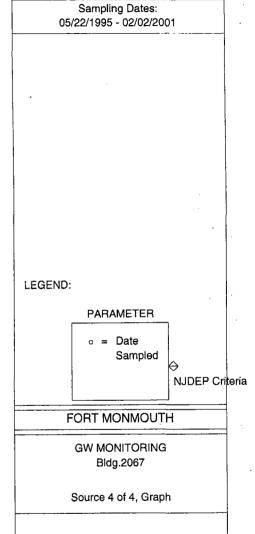
'97

'98

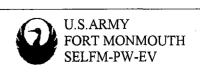
'99

'00 '01





SOURCE: 2067MW02



FORT MONMOUTH ENVIRONMENTAL

TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: UST/Monitoring Program

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 2067

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
16095.01	2067MW01	29-31778	05/01/01
16095.02	2067MW02	29-31779	05/01/01

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

SAMPLING



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: 5.	DOAR	Project No:				Analysi				Param	eters			Comments:
Phone #: XX	175	Location:	2067 4	vells										
()DERA ()OMA ()Other:	2nd ort	· 101			<u> </u> 설							Ead.	pce/+mo3/24°c
Samplers Name / Con	npany: Cores Mc Corm	ach, TUS	` .	Sample	#	10+15	Αs						All Read	·
ĻĻMS/Work Order#	Sample Location	Date	Time	Туре	bottles								7	Remarks / Preservation Method
16095 01	2067mw01	5/1/61	.0909	AQ	3	/	١						ه ه	29-31778
.02	2067mw02		0932	1	3	/	/						0.0	29-31779
•			·											
				ļ										
				ļ										
									<u> </u>					
													-	
						<u> </u>								
				<u> </u>										
						<u> </u>				<u></u>				
Relinquished by (signature	e): Date/Time: 5/1/01 /430	Received by	signature):		Relino	quished	by (sig	nature):		Date/	Time:	Receiv	ed by (signature):
/ Relinquished by (signature	e): Date/Time:	Received by (signature):		Relino	Relinquished by (signature): Date/Time: Received by (signature):					- ,			
Report Type: ()Full ()F	Reduced, Standard, Scree	n / non-certified				Remar		; N	A.		Shun	sT/F	B10 {	for cw6 Sine dute.



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: Project No: **Analysis Parameters** Comments: Location: CW6 wells Phone #: L4°c/HCL/HNO3 DERA ()OMA ()Other: 2nd arts 01 Samplers Name / Company: Cornack TVS Sample Remarks / Preservation Method Sample Location LIMS/Work Order # Date Type bottles Time 1009U . 5/1/01 AQ 0737 Field Black 1130 03 Dupe 5 CW6 MWOI 29- 30970 1258 CW6 mwo2 0.0 29-30971 1255 6 CW6 MW03 0.0 29-30972 1309 (W6 mw34 29-32599 1316 9.11 29-32600 CW6 mw35 401' CW6 mw36 29-32601 Received by (signature): Relinquished by (signature): Relinquished by (signature): Received by (signature): Date/Time: Date/Time: 1430 Received by (signature): Relinquished by (signature): Date/Time: Relinquished by (signature): Date/Time: Received by (signature): Shies T/FB/D W/ 2000 Sine Lite. Report Type: ()Full, ()Reduced, ()Standard, ()Screen / non-certified, ()EDD Remarks: TideiN/A Turnaround time: () at and ard 3 wks, () Rush Days, ()ASAP Verbal

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: 2067 MW#: 2067MW01 NJDEP ID #: 29-31778 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/01/01

WEATHER: Sunny, and warm.

TIDE: N/A

LNAPLs: N DNAPLs:N

ELEV. OF INNER CASING SURVEY MARK: N/Aft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 4.87 ft** DEPTH OF WELL: 10.25 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 5.38 ft (5.38) X .65 X 3 = 10.49

GALLONS OF H2O TO BE PURGED: 10 gal

PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm):

PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 08:25

pH 12.48 su

DISSOLVED O2 5.00 ppm

TEMP 15.8 °C

SPECIFIC CONDUCTIVITY 2.37 ms/cm

PURGE END TIME: 09:08

pH 12.47 su

DISSOLVED O2 5.23 ppm

TEMP 15.3 °C

SPECIFIC CONDUCTIVITY 2.38 ms/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 5.63 ft

(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 10 gal

SAMPLE START TIME: 09:09

pH 12.49 su

DISSOLVED O2 5.22 ppm

TEMP 15.1 °C

SPECIFIC CONDUCTIVITY 2.38 ms/cm

SAMPLE END TIME: 09:12

COMMENTS: Very high pH.

U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: 2067 MW#: 2067MW02 NJDEP ID #: 29-31779 **NJDEP CERT #: 13461**

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/01/01

WEATHER: Sunny, and warm.

TIDE: N/A

LNAPLs: N DNAPLs:N

ELEV. OF INNER CASING SURVEY MARK: N/Aft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 6.47 ft** DEPTH OF WELL: 13.75 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 7.28 ft (7.28) X .65 X 3 = 14.19

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF >0.5 TO <5.0 gpm):

PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 08:30

pH 4.37 su

DISSOLVED O2 5.97 ppm

TEMP 12.7 ℃

SPECIFIC CONDUCTIVITY 422 us/cm

PURGE END TIME: 09:31

pH 4.33 su

DISSOLVED O2 5.24 ppm·

TEMP 12.4 °C

SPECIFIC CONDUCTIVITY 424 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 7.07 ft

(SAMPLING METHOD: DEDICATED (IAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 09:32

pH 4.32 su

TEMP 12.3 °C

DISSOLVED O2 5.22 ppm

SPECIFIC CONDUCTIVITY 424 us/cm

SAMPLE END TIME: 09:35

COMMENTS: Low pH.

VOLATILES

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY N.IDEP CERTIFICATION # 13461

Definition of Qualifiers

MDL: Method Detection Limit

J: Compound identified below detection limit

B: Compound found in blank

D: Results are from a dilution of the sample
U: Compound searched for but not detected
E: Compound exceeds calibration limit

POL: Practical Quantitation Limit

NLE: No limit established

RT: Retention time

Data File

VC005652.D

Operator Skelton
Date Aquired 4-May-01

Sample Name

MB

Field ID Multiplier MB 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	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane		T I	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	T
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	1
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	<u> </u>
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene	-		not detected	10	0.17 ug/L	1
67-66-3	Chloroform	·····	1.	not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	1
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	T
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	T
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	1
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	1
1330-20-7	m+p-Xylenes		1	not detected	nle	1.14 ug/L	1
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	1
100-42-5	Styrene		1	not detected	100	0.56 ug/L	
75-25-2	Bromoform		1	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	0.53 ug/L 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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIE	LD	ID:
-----	----	-----

Lab Name:	FMETL		NJDEP#: 13461	IVID 1757
Project:	LTM	Case No.: 16094	Location: CW6 SD	OG No.:
Matrix: (soil/	water)	WATER	Lab Sample ID:	MB
Sample wt/v	ol:	5.0 (g/ml) ML	Lab File ID:	VC005652.D
Level: (low/	med)	LOW	Date Received:	5/1/01
% Moisture:	not dec.		Date Analyzed:	5/4/01
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract	Volume:	(uL)	Soil Aliquot Volun	me: (uL)
Number TIC	s found:		ONCENTRATION UNITS: g/L or ug/Kg) UG/L	
CAS NO.		COMPOUND NAME	RT ES	T. CONC. Q

Data File Operator Date Aquired VC005686.D

Skelton 7-May-01 Sample Name Field ID MB MB

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	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	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	<u> </u>
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	1
75-34-3	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	
156594	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		1	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride		1	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	i
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<u> </u>
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		1	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	<u> </u>
			1		2		
79-34-5	1.1.2.2-Tetrachloroethane		1 1	not detected	1 2 1	0.4 / 119/1	
79-34-5 541-73-1	1,1,2,2-Tetrachloroethane			not detected		0.47 ug/L 0.55 ug/L	
79-34-5 541-73-1 106-46-7	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene			not detected not detected not detected	600	0.47 ug/L 0.55 ug/L 0.57 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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIE	LD	ID:

Lab Name:	FMETL			_ NJDEP	#: <u>13461</u>		IVIB 17	64
Project:	LTM	Cas	e No.: 16095	Locat	tion: <u>2067</u>	SI	OG No.:	
Matrix: (soil/	water)	WATER	-	I	Lab Sample	e ID:	МВ	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab File ID	:	VC005686.D)
Level: (low/r	ned)	LOW		!	Date Recei	ved:	5/1/01	
% Moisture:	not dec.			I	Date Analy	zed:	5/7/01	
GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0								
Soil Extract \	/olume:		_ (uL)	;	Soil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0	_	ONCENTR g/L or ug/k	ATION UN			
CAS NO.		COMPOU	ND NAME		RT	ES	T. CONC.	. Q

Data File

VC005677.D

Operator Date Aquired Skelton 5-May-01 Sample Name

1609401 Trip Blank

Field ID 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	70	0.16 ug/L	Ι
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	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	1
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	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate		1	not detected	nle	0.78 ug/L	<u> </u>
78-93-3	2-Butanone		1	not detected	300	0.62 ug/L	"
156594	cis-1.2-Dichloroethene		1	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		1 1	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		1	not detected	1 1	0.23 ug/L	
78-87-5	1,2-Dichloropropane		 	not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane		<u> </u>	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		1	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		1	not detected	3	0.48 ug/L	<u> </u>
127-18-4	Tetrachloroethene		1	not detected	1	0.32 ug/L	
591-78-6	2-Hexanone		1	not detected	nle	0.71 ug/L	1
126-48-1	Dibromochloromethane		1	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		 	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		1	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	0.30 ug/L 0.70 ug/L	
75-25-2 79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.70 ug/L 0.47 ug/L	
			+	not detected	600		
541-73-1	1,3-Dichlorobenzene		1			0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		 	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		1	not detected	600	0.64 ug/L	<u> </u>

*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

Case No.: 16094

(g/ml) ML

Lab Name:

Matrix: (soil/water)

Sample wt/vol:

Level: (low/med)

% Moisture: not dec.

Number TICs found:

Project:

FMETL

WATER

5.0

LOW

LTM

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

YSIS DATA SHEET	FIELD ID:
COMPOUNDS	
NJDEP#: 13461	Trip Blank
Location: CW6 SI	DG No.:
Lab Sample ID:	1609401
Lab File ID:	VC005677.D
Date Received:	5/1/01
Date Analyzed:	5/5/01
Dilution Factor:	1.0
Soil Aliquot Volu	me: (uL)

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1
Soil Extract Volume: (uL) Soil Aliquot Volum

CONCENTRATION UNITS:

CAS NO. COMPOUND NAME RT EST. CONC. Q

(ug/L or ug/Kg)

UG/L

Data File

VC005678.D

Operator Skelton
Date Aquired 5-May-01

Sample Name

1609402

Field ID

Field Blank

Multiplier 1

197028	CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107131	107028				not detected		1.85 ug/L	
1634044 Methyl-tent-Butyl ether mot detected nle 0.25 µg/L	107131	Acrylonitrile			not detected	50		
108203 Di-isogropyl ether	75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
	1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
Table	108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
175-01-4 Vinyl Chloride	75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
Note	74-87-3	Chloromethane			not detected	30	1.16 ug/L	
T5-60-3	75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
175-69-4 Trichlorofluoromethane not detected nle 0.50 ug/L	74-83-9	Bromomethane			not detected	10	1.10 ug/L	
1,1-Dichloroethene	75-00-3	Chloroethane			not detected	nle	1.01 ug/L	1
Trickloroethane not detected 100 1.36 ug/L	75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
15-15-0 Carbon Disulfide	75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
	67-64-1	Acetone			not detected	700	1.36 ug/L	
156-60-5 trans-1,2-Dichloroethene not detected 100 0.16 ug/L	75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
1,1-Dichloroethane	75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
108-05-4 Vinyl Acetate not detected nle 0.78 ug/L	156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
28-93-3 2-Butanone not detected 300 0.62 ug/L 156594 cis-1,2-Dichloroethene not detected 10 0.17 ug/L 57-66-3 Chloroform not detected 6 0.30 ug/L 57-55-6 1,1,1-Trichloroethane not detected 30 0.23 ug/L 57-55-5 1,1,1-Trichloroethane not detected 2 0.47 ug/L 57-53-5 Carbon Tetrachloride not detected 2 0.47 ug/L 57-143-2 Benzene not detected 1 0.23 ug/L 107-06-2 1,2-Dichloroethane not detected 1 0.23 ug/L 107-06-3 1,2-Dichloropropane not detected 1 0.23 ug/L 108-15-5 1,2-Dichloropropane not detected 1 0.40 ug/L 108-15-27-4 Bromodichloromethane not detected 1 0.40 ug/L 110-75-8 2-Chloroethyl vinyl ether not detected nle 0.65 ug/L 110-10-5 cis-1,3-Dichloropropene not detected nle 0.65 ug/L 108-10-1 4-Methyl-2-Pentanone not detected nle 0.69 ug/L 108-10-1 4-Methyl-2-Pentanone not detected 1000 0.37 ug/L 109-10-2-6 trans-1,3-Dichloropropene not detected nle 0.87 ug/L 109-10-3 1,1,2-Trichloroethane not detected nle 0.87 ug/L 109-10-3 1,1,2-Trichloroethane not detected nle 0.87 ug/L 108-90-5 1,1,2-Trichloroethane not detected nle 0.71 ug/L 108-90-7 Chlorobenzene not detected nle 0.69 ug/L 109-41-4 Ethylbenzene not detected nle 0.69 ug/L 109-45-5 Styrene not detected nle 0.69 ug/L 109-45-5 Styrene not detected nle 0.69 ug/L 109-45-5 1,1,2-Trichloroethane not detected nle 0.69 ug/L 109-45-6 1,4-Dichlorobenzene not detected 0.00 0.59 ug/L	75-34-3	1,1-Dichloroethane		* *	not detected	70	0.12 ug/L	
156594 cis-1,2-Dichloroethene not detected 10 0.17 ug/L	108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
The process of the	78-93-3	2-Butanone			not detected	300	0.62 ug/L	
1,1,1-Trichloroethane not detected 30 0.23 ug/L	156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
107-06-2	67-66-3	Chloroform			not detected	6	0.30 ug/L	
107-106-2 1,2-Dichloroethane not detected 1 0,23 ug/L	75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
1,2-Dichloroethane not detected 2 0.18 ug/L	56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
10.23 ug/L 10.23 ug/L 10.23 ug/L 10.23 ug/L 10.25 ug/L 10.25 ug/L 10.25 ug/L 10.275-8 1,2-Dichloropropane 10.25 ug/L 10.25 ug/L 10.25-8 2-Chloroethyl vinyl ether 10.25 ug/L 10.25-8 2-Chloropropene 10.25 ug/L 10.25-8 1.25-Dichloropropene 10.25-B 1.25-Dichloropropene 10.25-B 1.25-Dichloropropene 10.25-B 1.25-Dichloropropene 1.25-Dichlorop	71-43-2	Benzene		.	not detected	1	0.23 ug/L	
1,2-Dichloropropane not detected 1 0.40 ug/L	107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
100-75-8 2-Chloroethyl vinyl ether not detected nle 0.65 ug/L	79-01-6	Trichloroethene		<u>i j</u>	not detected	1	0.23 ug/L	
10-75-8 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 1000 0.59 ug/L 108-83-3 Toluene not detected 1000 0.37 ug/L 10061-02-6 trans-1,3-Dichloropropene not detected nle 0.87 ug/L 109-00-5 1,1,2-Trichloroethane not detected 3 0.48 ug/L 127-18-4 Tetrachloroethene not detected 1 0.32 ug/L 191-78-6 2-Hexanone not detected nle 0.71 ug/L 108-90-7 Chlorobenzene not detected 10 0.86 ug/L 108-90-7 Chlorobenzene not detected 4 0.39 ug/L 109-41-4 Ethylbenzene not detected nle 1.14 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 109-42-5 Styrene not detected 4 0.70 ug/L 175-25-2 Bromoform not detected 2 0.47 ug/L 199-34-5 1,1,2,2-Tetrachloroethane not detected 600 0.55 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L	78-87-5	1,2-Dichloropropane			not detected	1	0.40 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 179-00-5 1,1,2-Trichloroethane not detected 3 0.48 ug/L 179-10-5 2-Hexanone not detected 1 0.32 ug/L 179-178-6 2-Hexanone not detected nle 0.71 ug/L 180-90-7 Chlorobenzene not detected 10 0.86 ug/L 100-41-4 Ethylbenzene not detected 700 0.65 ug/L 1330-20-7 o-Xylene 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 10 0.56 ug/L 179-34-5 1,1,2,2-Tetrachloroethane not detected 2 0.47 ug/L 179-34-5 1,1,2-Tetrachloroethane not detected 2 0.47 ug/L 100-46-7 1,4-Dichlorobenzene not detected 50 0.55 ug/L 100-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L	75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
108-10-1	110-75-8	2-Chloroethyl vinyl ether		<u> </u>	not detected	nle	0.65 ug/L	
1006-88-3 Toluene	10061-01-5			<u> </u>	not detected	nle	0.69 ug/L	
1,1,2-Trichloropenee not detected nle 0.87 ug/L 1,1,2-Trichloroethane not detected 3 0.48 ug/L 1,2-Trichloroethane not detected 1 0.32 ug/L 1,2-Trichloroethane not detected 1 0.32 ug/L 1,2-Trichloroethane not detected nle 0.71 ug/L 1,3-Dichlorobenzene not detected nle 0.86 ug/L 1,3-Dichlorobenzene not detected nle 0.62 ug/L 1,3-Dichlorobenzene not detected nle 0.62 ug/L 1,3-Dichlorobenzene not detected nle 0.70 ug/L 1,3-Dichlorobenzene not detected nle 0.55 ug/L 1,4-Dichlorobenzene not detected nle 0.57 ug/L	108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
1,1,2-Trichloroethane not detected 3 0.48 ug/L 1,27-18-4 Tetrachloroethene not detected 1 0.32 ug/L 1,27-18-6 2-Hexanone not detected nle 0.71 ug/L 1,26-48-1 Dibromochloromethane not detected 10 0.86 ug/L 1,08-90-7 Chlorobenzene not detected 4 0.39 ug/L 1,00-41-4 Ethylbenzene not detected 700 0.65 ug/L 1,330-20-7 m+p-Xylenes not detected nle 1.14 ug/L 1,330-20-7 o-Xylene not detected nle 0.62 ug/L 1,00-42-5 Styrene not detected 100 0.56 ug/L 1,00-34-5 1,1,2,2-Tetrachloroethane not detected 2 0.47 ug/L 1,3-Dichlorobenzene not detected 600 0.55 ug/L 1,4-Dichlorobenzene not detected 75 0.57 ug/L 1,4-Dichlorobenzene not detected 75 0.57 ug/L 1,4-Dichlorobenzene not detected 75 0.57 ug/L 1,5-Dichlorobenzene not detected 75 0.57 ug/L 1,5-Dichlorobenzene not detected 75 0.57 ug/L 1,5-Dichlorobenzene not detected 75 0.57 ug/L 1,4-Dichlorobenzene not detected 75 0.57 ug/L 1,5-Dichlorobenzene not detected 75 0.57 ug/L 1,5-Dichlorobenzene not detected 75 0.57 ug/L	108-88-3	Toluene		<u> </u>	not detected	1000	0.37 ug/L	
Tetrachloroethene	10061-02-6	trans-1,3-Dichloropropene		1	not detected	nle	0.87 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	79-00-5	1,1,2-Trichloroethane	·		not detected	3	0.48 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	127-18-4	Tetrachloroethene			not detected	1	0.32 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	591-78-6	2-Hexanone			not detected	nle	0.71 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	126-48-1	Dibromochloromethane			not detected	10		
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	108-90-7	Chlorobenzene			not detected	4	0.39 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	100-41-4	Ethylbenzene			not detected	700	0.65 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	1330-20-7	m+p-Xylenes			not detected	nle	1.14 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	1330-20-7	o-Xylene			not detected	nle	0.62 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	100-42-5	Styrene			not detected	100		
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	75-25-2	Bromoform						
541-73-1 1,3-Dichlorobenzene not detected 600 0.55 ug/L 1,06-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L	79-34-5					2		
1,4-Dichlorobenzene not detected 75 0.57 ug/L	541-73-1							
	106-46-7							
	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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

							l	!
Lab Name:	FMETL			NJDEP#	#: <u>13461</u>		Field B	lank
Project:	LTM	Cas	se No.: 1609	Locat	ion: CW6	SD	G No.:	
Matrix: (soil/	water)	WATER	_	L	_ab Sample	ID:	1609402	
Sample wt/v	ol:	5.0	(g/ml) ML		ab File ID:	-	VC005678.D	!
Level: (low/r	med)	LOW	_		Date Receiv	ed:	5/1/01	
% Moisture:	not dec.			[Date Analyz	ed:	5/5/01	
GC Column:	RTX5	02. ID: 0.2	25 (mm)	Ţ	Dilution Fact	tor:	1.0	
Soil Extract \	Volume:		(uL)	5	Soil Aliquot	Volun	ne:	(uL)
Number TiC	s found:	0		CONCENTR (ug/L or ug/K				
CAS NO.		COMPOL	IND NAME		RT	ES	T. CONC.	Q

Data File Operator Date Aquired VC005692.D

Skelton 7-May-01 Sample Name Field ID 1609501 2067MW01

Multiplier	1
wuunner	

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile		Γ	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	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	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	8.84	7185518	129.53 ug/L	700	1.36 ug/L	Е
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	1 =
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	
75-34-3	1,1-Dichloroethane		1 1	not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate	<u> </u>	†	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	15.23	495948	10.49 ug/L	300	0.62 ug/L	
156594	cis-1.2-Dichloroethene	10.25	1.727.0	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	<u> </u>
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		1	not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene		1 1	not detected	1	0.32 ug/L	1
591-78-6	2-Hexanone		 	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane		 	not detected	10	0.86 ug/L	1
108-90-7	Chlorobenzene		 	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		 	not detected	700	0.65 ug/L	1
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	
	1,1,2,2-Tetrachloroethane		 -	not detected	2	0.47 ug/L	1
79-34-5			+ +				
541-73-1	1,3-Dichlorobenzene			not detected not detected	600	0.55 ug/L	1
106-46-7	1,4-Dichlorobenzene	·	 		75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	L		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

Data File Operator

Date Aquired

VC005715.D

Skelton 8-May-01 Sample Name Field ID

1609501 2067MW01

Multiplier

2

CAS#	Compound Name	R.T	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	3.70 ug/L	
107131	Acrylonitrile			not detected	50	5.56 ug/L	
75650	tert-Butyl alcohol			not detected	nle	17.04 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.32 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.50 ug/L	
75718	Dichlorodifluoromethane		***	not detected	nle	3.36 ug/L	
74-87-3	Chloromethane	_		not detected	30	2.32 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.12 ug/L	<u> </u>
74-83-9	Bromomethane		1 "	not detected	10	2.20 ug/L	ļ
75-00-3	Chloroethane			not detected	nle	2.02 ug/L	<u> </u>
75-69-4	Trichlorofluoromethane		1 "-	not detected	nle	1.00 ug/L	
75-35-4	1,1-Dichloroethene		†	not detected	2	0.48 ug/L	
67-64-1	Acetone	8.84	3852032	145.62 ug/L	700	2.72 ug/L	D
75-15-0	Carbon Disulfide		1	not detected	nle	0.92 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.48 ug/L	Ī
156-60-5	trans-1.2-Dichloroethene			not detected	100	0.48 ug/L 0.32 ug/L	†
75-34-3	1,1-Dichloroethane			not detected	70	0.24 ug/L	<u> </u>
108-05-4	Vinyl Acetate		 	not detected	nle	1.56 ug/L	
78-93-3	2-Butanone	15.24	263664	11.69 ug/L	300	1.24 ug/L	D
156594	cis-1.2-Dichloroethene	15.24	203007	not detected	10	0.34 ug/L	†
67-66-3	Chloroform			not detected	6	0.60 ug/L	†
75-55-6	1,1,1-Trichloroethane		1	not detected	30	0.46 ug/L	
56-23-5	Carbon Tetrachloride		 - -	not detected	2	0.40 ug/L	
71-43-2	Benzene			not detected	1	0.46 ug/L	
107-06-2	1,2-Dichloroethane		 	not detected	2	0.46 ug/L	
79-01-6	Trichloroethene		 	not detected	1	0.36 ug/L 0.46 ug/L	
78-87-5	1,2-Dichloropropane		 	not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane		 	not detected	1	1.10 ug/L	
110-75-8	2-Chloroethyl vinyl ether		1	not detected	nle	1.30 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.38 ug/L	
108-10-1	4-Methyl-2-Pentanone		 	not detected	400	1.18 ug/L	
108-88-3	Toluene		 	not detected	1000	0.74 ug/L	
10061-02-6	trans-1,3-Dichloropropene	_	 	not detected	nle	1.74 ug/L	
79-00-5	1,1,2-Trichloroethane		 	not detected	3	0.96 ug/L	
127-18-4	Tetrachloroethene		 	not detected	1	0.90 ug/L 0.64 ug/L	-
591-78-6	2-Hexanone		 				
126-48-1	Dibromochloromethane		+	not detected not detected	nle 10	1.42 ug/L	
108-90-7	Chlorobenzene		 	·	4	1.72 ug/L	
100-41-4	Ethylbenzene	_	 	not detected		0.78 ug/L	+
			 	not detected	700	1.30 ug/L	
1330-20-7	m+p-Xylenes		 	not detected	nle	2.28 ug/L	
1330-20-7	o-Xylene		 	not detected	nle	1.24 ug/L	
100-42-5	Styrene		 	not detected	100	1.12 ug/L	
75-25-2	Bromoform		 	not detected	4	1.40 ug/L	+
79-34-5	1,1,2,2-Tetrachloroethane		 	not detected	2	0.94 ug/L	
541-73-1	1,3-Dichlorobenzene	<u> </u>	 	not detected	600	1.10 ug/L	
106-46-7	1,4-Dichlorobenzene		ļ	not detected	75	1.14 ug/L	
95-50-1	1,2-Dichlorobenzene		1	not detected	600	1.28 ug/L	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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FI	Εl	_D	ID:	:
_				_

Lab Name:	FMETL		1000	NJDEP#	#: <u>13461</u>		20071111	
Project:	LTM	Cas	e No.: 16095	Locat	ion: <u>2067</u>	SD	G No.:	
Matrix: (soil/v	water)	WATER		i	ab Sample	e ID:	1609501	
Sample wt/vo	ol:	5.0	(g/ml) ML		_ab File ID	: `	VC005692.D	
Level: (low/n	ned)	LOW		[Date Recei	ved:	5/1/01	
% Moisture: ı	not dec.		_	[Date Analy	zed: 🛓	5/7/01	
GC Column: RTX502. ID: 0.25 (mm)					Dilution Factor: 1.0			
Soil Extract Volume: (uL)				9	Soil Aliquot Volume:			(uL)
				CONCENTR				
Number TICs	s found:	0	(- 	ug/L or ug/K	(g) <u>UG</u>	i/L		
CAS NO.		COMPOU	ND NAME		ŔŦ	EST	Γ. CONC.	Q

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

Data File Operator

VC005693.D

Skelton

Sample Name

1609502 2067MW02

Date Aquired

7-May-01

Multiplier

Field ID

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	T
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	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	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	
75-34-3	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	
156594	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	
78-8 <u>7</u> -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		<u> </u>	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	<u> </u>
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	<u> </u>
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	L
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100_	0.56 ug/L	L
75-25-2	Bromoform			not detected	4	0.70 ug/L	<u> </u>
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	ļ
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		<u> </u>	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:	
	2067MW02	
_ s	DG No.:	_
ID:	1609502	_
	VC005693.D	
ed:	5/1/01	
ed:	5/7/01	
tor:	1.0	

Lab Name:	FMETL		NJDEP#: 13461	20071111102
Project:	LTM	Case No.: 1609	95 Location: 2067 S	SDG No.:
Matrix: (soil/	water)	WATER	Lab Sample ID:	1609502
Sample wt/vo	ol:	5.0 (g/ml) ML	Lab File ID:	VC005693.D
Level: (low/r	ned)	LOW	Date Received:	5/1/01
% Moisture:	not dec.		Date Analyzed:	5/7/01
GC Column:	RTX50	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract \	/olume:	(uL)	Soil Aliquot Vol	ume: (uL
Number TICs	s found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
CAS NO.		COMPOUND NAME	RT E	ST. CONC. Q

METALS

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 #: 16095

Sample Received: NA

Analysis Start: 05/09/01

Analysis Completed: 05/09/01

Site:

Ft. Monmouth

Building 2067

Matrix: Aqueous

Method of Analysis:

Std. Methods 18th, Method 3113B

Method of Digestion:

NA

TEST PARAMETER: ARSENIC

Laboratory	Sample Location	Result	GW Criteria	MDL
ID#	Identification	(ug/L)	(ug/L)	(ug/L)
Method Blank	NA	ND	8	2.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

Report of Analysis

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

Client: U.S. Army

Lab ID #: 16094

DPW, SELFM-PW-EV

Sample Prepared: 06/04/01

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-6

Field ID#: Method Blank

Ft. Monmouth, New Jersey

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL	
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)	
Aluminum	07/06/01	14.6	200	10.0	
Antimony	07/06/01	ND	20	2.0	
Arsenic	07/06/01	ND-	8	2.0	
Barium	07/06/01	5.40	2000	0.5	
Beryllium	07/06/01	ND	_ 20	0.5	
Cadmium	07/06/01	ND	^{1,2,1} 4	0.5	
Calcium	07/06/01	91.7	NLE	20.0	
Chromium	07/06/01	ND	100	_ 0.5	
Cobalt	07/06/01	ND	NLE	0.5	
Copper	07/06/01	13.5	1000	2.0	
Iron	07/06/01	71.2	300	10.0	
Lead	07/06/01	3.52	10	1.0	
Magnesium	07/06/01	ND	NLE	10.0	
Manganese	07/06/01	ND	50	0.5	
Mercury	05/08/01	ND	2	0.1	
Nickel	07/06/01	ND	100	1.0	
Potassium	07/06/01	ND	NLE	40.0	
Selenium	07/06/01	6.35	50	3.0	
Silver	07/06/01	1.58	20	1.0	
Sodium	07/06/01	720	50000	20.0	
Thallium	07/06/01	ND	10	2.0	
Vanadium	07/06/01	ND	NLE	0.5	
Zinc	07/06/01	13.1	5000	5.0	

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Report of Analysis

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

Client: U.S. Army

Lab ID #: 1609402

DPW, SELFM-PW-EV

Sample Received: 05/01/01

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-6

Field ID#: Field Blank

Ft. Monmouth, New Jersey

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/06/01	ND	200	10.0
Antimony	07/06/01	ND	20	2.0
Arsenic	07/06/01	4.49	8	2.0
Barium	07/06/01	ND	2000	0.5
Beryllium	07/06/01	ND	20	0.5
Cadmium	07/06/01	0.816	4	0.5
Calcium	07/06/01	58.3	NLE	20.0
Chromium	07/06/01	ND	100	0.5
Cobalt	07/06/01	ND	NLE	0.5
Copper	07/06/01	ND	1000	2.0
Iron	07/06/01	63.9	300	10.0
Lead	07/06/01	ND	10	1.0
Magnesium	07/06/01	17.3	NLE	10.0
Manganese	07/06/01	1.12	50	0.5
Mercury	05/08/01	ND	2	0.1
Nickel	07/06/01	ND	100	1.0
Potassium	07/06/01	197	NLE	40.0
Selenium	07/06/01	ND	50	3.0
Silver	07/06/01	1.26	20	1.0
Sodium	07/06/01	843	50000	20.0
Thallium	07/06/01	ND	10	2.0
Vanadium	07/06/01	ND	NLE	0.5
Zinc	07/06/01	6.31	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established * Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

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

Client: U.S. Army

Lab ID #: 16095

DPW, SELFM-PW-EV

Sample Received: 05/01/01

Bldg. 173

Analysis Start: 05/09/01

Ft. Monmouth, NJ 07703

Analysis Completed: 05/09/01

Site:

Ft. Monmouth

Building 2067

Matrix: Aqueous

Method of Analysis:

Std. Methods 18th, Method 3120B

Method of Digestion: NA

TEST PARAMETER: ARSENIC

Laboratory	Sample Location	Result	GW Criteria	MDL
ID#	Identification	(ug/L)	(ug/L)	(ug/L)
1609501	2067MW01	6.0	8	2.0
1609502	2067MW02	ND	8	2.0

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

LTM

	Laboratory	Acetone	Methylene Chloride	Toluene	2- Butanone	2- Hexanone	4-Methyl-2 -Pent anone	Dimethyl sulfide	Arsenic	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	Feet	-
NJDEP Criteria:		700	2	1000	300	NLE	400	NLE	8.0		
05/22/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	•	8.63	V, S
06/14/1995	EMSL	ND	ND	ND	ND	ND	ND	ND	•	9.30	٧
11/05/1996	FMETL	-	-	• .		-	-	· .	39.1	5.44	As
02/20/1997	FMETL	960	ND	1.58	91	15	ND	ND	13.2	4.57	V, As
04/15/1997	FMETL	590	ND	ND	59	13	ND .	24	16.0	4.75	V, As
09/03/1997	FMETL	73	15.2	ND	ND	ND	ND	9	31.8	5.90	V. As
12/04/1997	FMETL	1700	ND	ND	272	24	8.74	4	18.0	5.10	V, As
03/06/1998	FMETL	1400	ND	ND	149	17	ND	12	13.0	5.48	V, As
05/21/1998	FMETL	1100	ND	4.5	127	20	5.67	6	12.5	3.54	V, As
08/26/1998	FMETL	121.08	ND	1.70	11.78	ND	ND	ND	4.8	6.40	V, As
12/09/1998	FMETL	ND	ND	ND	ND	ND	ND	ND	13.9	8.15	V, As
02/17/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	4.7	5.05	V, As
06/18/1999	FMETL	ND	ND	ND	ND	ND	ND	ND	18.5	6.28	V, As
08/10/1999	FMETL	7.54	ND	ND	ND	ND	ND	ND	36.8	7.91	V, As
11/15/1999	FMETL	678.1	ND	ND	30.29	ND	4.18	D	11.8	5.83	V, As
03/27/2000	FMETL	252.05	ND	ND	ND	ND	ND	ND	4.3	5.04	V, As
06/15/2000	FMETL	169.34	ND	ND	16.76	ND	ND	ND	14.0	5.30	V, As
08/31/2000	FMETL	466.83	ND	ND	10.45	ND	ND	ND	11.5	5.21	V, As
11/09/2000	FMETL	111.81	ND	ND	ND	ND	ND	ND	5.7	5.89	V, As
02/02/2001	FMETL	163.91	ND	ND	8.91	ND	ND	ND	3.1	4.08	V, As
05/01/2001	FMETL	145.62	ND	ND	10.49	ND	ND	ND	6.0	4.87	V,As

SOURCE: 2067MW01

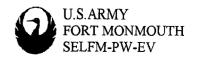
Sampling Dates: 05/22/1995 - 05/01/2001

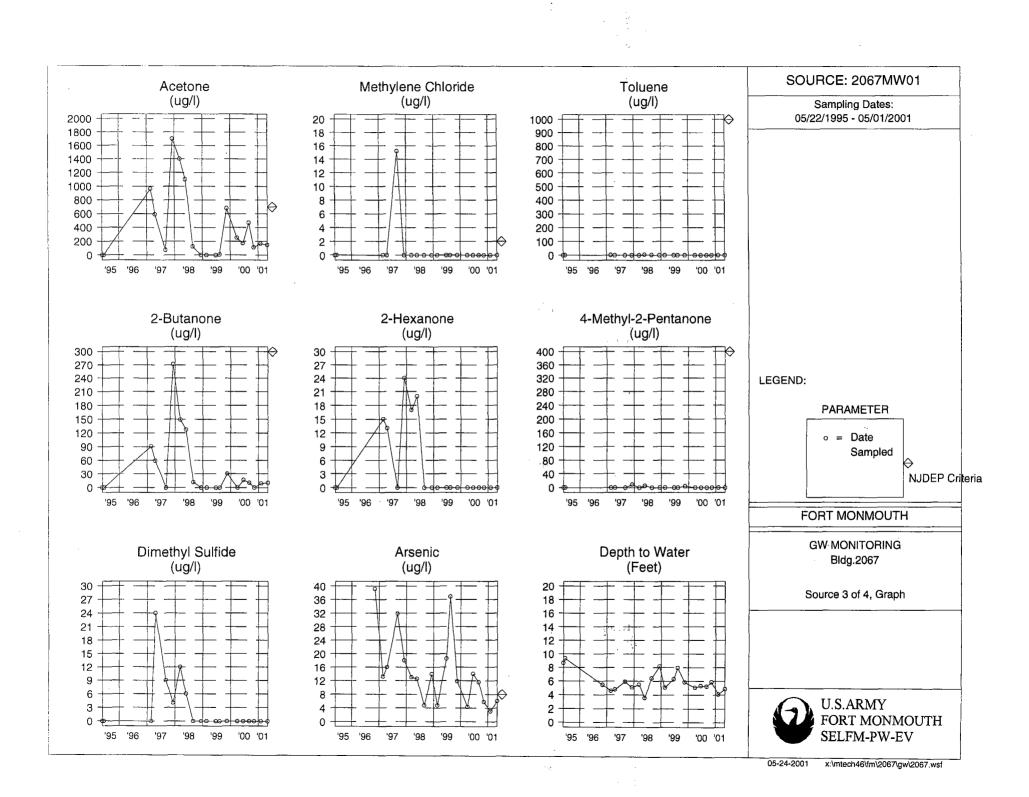
NOTES:

FORT MONMOUTH

GW MONITORING Bldg.2067

Source 3 of 4





	Laboratory	Acetone	Arsenic	Depth to Water				Notes
Units:	-	ug/l	ug/l	Feet		 1	 	-
NJDEP Criteria		700	8.0	-				-
05/22/1995	EMSL	ND		8.96				V, S
06/14/1995	EMSL	ND		9.53				V
08/21/1996	FMETL	-	ND	7.0				As
11/06/1996	FMETL	ND	ND	7.30				V, As
02/20/1997	FMETL	ND	ND	6.32				V, As
04/15/1997	FMETL	ND	4.0	6.35				V, As
09/03/1997	FMETL	ND	ND	7.00			 	V, As
12/04/1997	FMETL	ND	0.1	6.6				V, As
03/06/1998	FMETL	ND	1.0	6.21				V, As
05/21/1998	FMETL	ND	ND	6.01				V, As
08/26/1998	FMETL	5.73	2.6	6.40				V, As
12/09/1998	FMETL	ND	2.5	8.44				V, As
02/17/1999	FMETL	ND	1.0	6.62				V, As
06/18/1999	FMETL	ND	ND	8.01				V, As
08/10/1999	FMETL	ND	1.5	9.17				V, As
11/15/1999	FMETL	ND	1.1	7.30				V, As
03/27/2000	FMETL	ND	ND	6.34				V, As
06/15/2000	FMETL	ND	5.6	6.79				V, As
08/31/2000	FMETL	ND	ND	6.69				V, As
11/09/2000	FMETL	ND	ND	7.40				V, As
02/02/2001	FMETL	ND	1.7	4.30			·	V, As
05/01/2001	FMETL	ND	ND	6.47			 	V, As

COL	ID	$\cap \vdash \cdot$	206	7 N /	4 L A	$I \cap C$
300	JΠ	UE.	200	/ IV	I۷۱	102

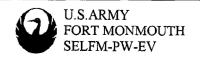
Sampling Dates: 05/22/1995 - 05/01/2001

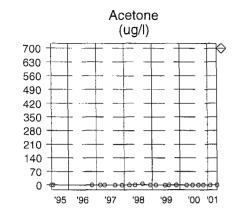
NOTES:

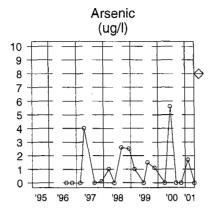
FORT MONMOUTH

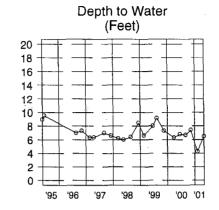
GW MONITORING Bldg.2067

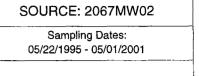
Source 4 of 4

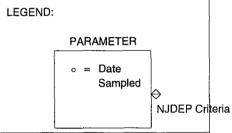




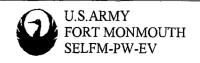








GW MONITORING
Bldg.2067
Source 4 of 4, Graph



APPENDIX G

WELL PERMITS