

United States Army

Fort Monmouth, New Jersey

**Underground Storage Tank
Closure and Site Investigation
Report**

***Building 166
Main Post***

**NJDEP UST Registration No. 090017-17
NJDEP Closure Approval Letter
Dated June 7, 1994**

May 2000

**UNDERGROUND STORAGE TANK
CLOSURE AND SITE INVESTIGATION REPORT**

BUILDING 166

**MAIN POST
NJDEP UST REGISTRATION NO. 090017-17
NJDEP CLOSURE APPROVAL LETTER
DATED JUNE 7, 1994**

MAY 2000

**PROJECT NO.: 09-5004-12
CONTRACT NO.: DACA51-94-D-0014**

PREPARED FOR:

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

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EXECUTIVE SUMMARY

On June 16, 1994, a fiberglass underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) Closure Approval letter dated June 7, 1994, at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 090017-17, was located immediately adjacent to Building 166 in the Main Post area of U.S. Army, Fort Monmouth. UST No. 090017-17 was a 4,000-gallon No. 2 fuel oil UST. The UST fill port was located directly above the tank. The tank closure was performed by Cleaning Up the Environment Inc. (CUTE Inc.).

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*. 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. No holes were noted in the UST, however, evidence of potentially contaminated soils was observed surrounding the tank. Based on an inspection of the UST, and field screening of subsurface soils, the Directorate of Public Works (DPW) concluded that an historical discharge was associated with the UST. On June 16, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 090017-17 and was assigned Spill Case No. 94-6-16-1545-09.

On June 16, 1994, following the removal of the UST, approximately 24 cubic yards of potentially contaminated soil were removed from the excavation. All post-excavation soil samples collected, on June 16, 1994, from the UST excavation and from below piping associated with the former UST at Building 166 contained total petroleum hydrocarbons (TPHC) concentrations below the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 milligrams per kilogram (mg/kg) (N.J.A.C. 7:26D and revisions dated February 3, 1994). The samples contained TPHC concentrations ranging from non-detectable to 786.0 mg/kg. Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with a combination of uncontaminated excavated soil and certified clean fill.

In response to the observation of potentially contaminated soil near the shallow water table, one shallow overburden monitoring well (MW-1) was installed at the Building 166 area on September 14, 1994. On May 18, 1995 and June 13, 1995, MW-1 was sampled for volatile organic compounds calibrated for xylene plus 15 tentatively identifies compounds (VOCs), and semivolatile organic compounds plus 15 tentatively identified compounds (SVOCs). Groundwater analytical results were either below the detection limit or in compliance with the New Jersey Groundwater Criteria (GWQC). No product or sheen was observed in MW-1 on either of the sampling dates.

No further action is proposed in regard to the closure and site assessment of UST No. 090017-17 at Building 166.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

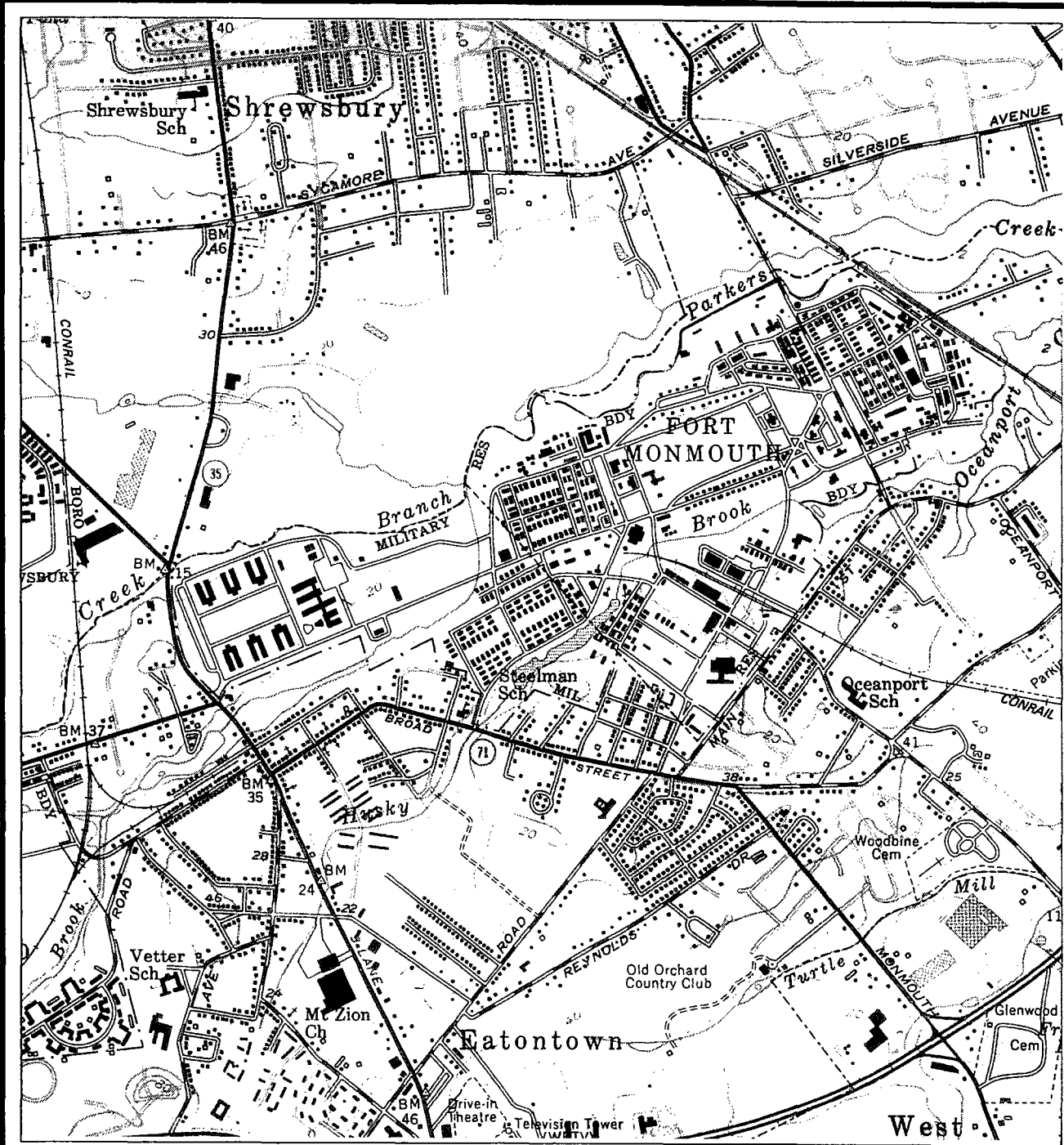
One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 090017-17, was closed at Building 166 at U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on June 16, 1994. Refer to site location map on Figure 1. This report presents the results of the DPW's implementation of the UST Decommissioning/Closure Plan submitted to the NJDEP on May 25, 1994, and approved on June 7, 1994. The UST was a fiberglass 4,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 090017-17 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 & 1910.120. All permits including but not limited to the NJDEP-approved Decommissioning/Closure Plan were posted on site for inspection. CUTE, Inc., the contractor that conducted the decommissioning activities, is registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 090017-17 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP-BUST closure approval and signed certifications for UST No. 090017-17 are included in Appendices A and B, respectively.

Based on an inspection of the UST, field screening of subsurface soils and analytical results of collected soil samples, the DPW has concluded that a significant historical discharge was associated with this UST or more probable with a former UST. On June 16, 1994, a spill was reported to the NJDEP "Hotline" for UST No. 090017-17 and was assigned Spill Case No. 94-6-16-1545-09.

This UST Closure and Site Investigation Report has been prepared by Smith Technology Corporation, to assist the United States Army Directorate of Public Works (DPW) in complying with the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST) regulations. The applicable NJDEP-BUST 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. September 1990 and revisions dated November 1, 1991).

This report was prepared using information required 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 investigation, are presented in the final section of this report.



Source: Long Branch, New Jersey Quadrangle



SCALE

0 2000 FT.

NEW JERSEY



QUADRANGLE LOCATION

1.2 SITE DESCRIPTION

Building 166 is located in the northeastern portion of the Main Post area of Fort Monmouth, as shown on Figure 1. UST No. 090017-17 was located west of Building 166 and appurtenant piping ran less than 10 feet east from the excavation to Building 166. The fill port area was located directly above the tank. A site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 166. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

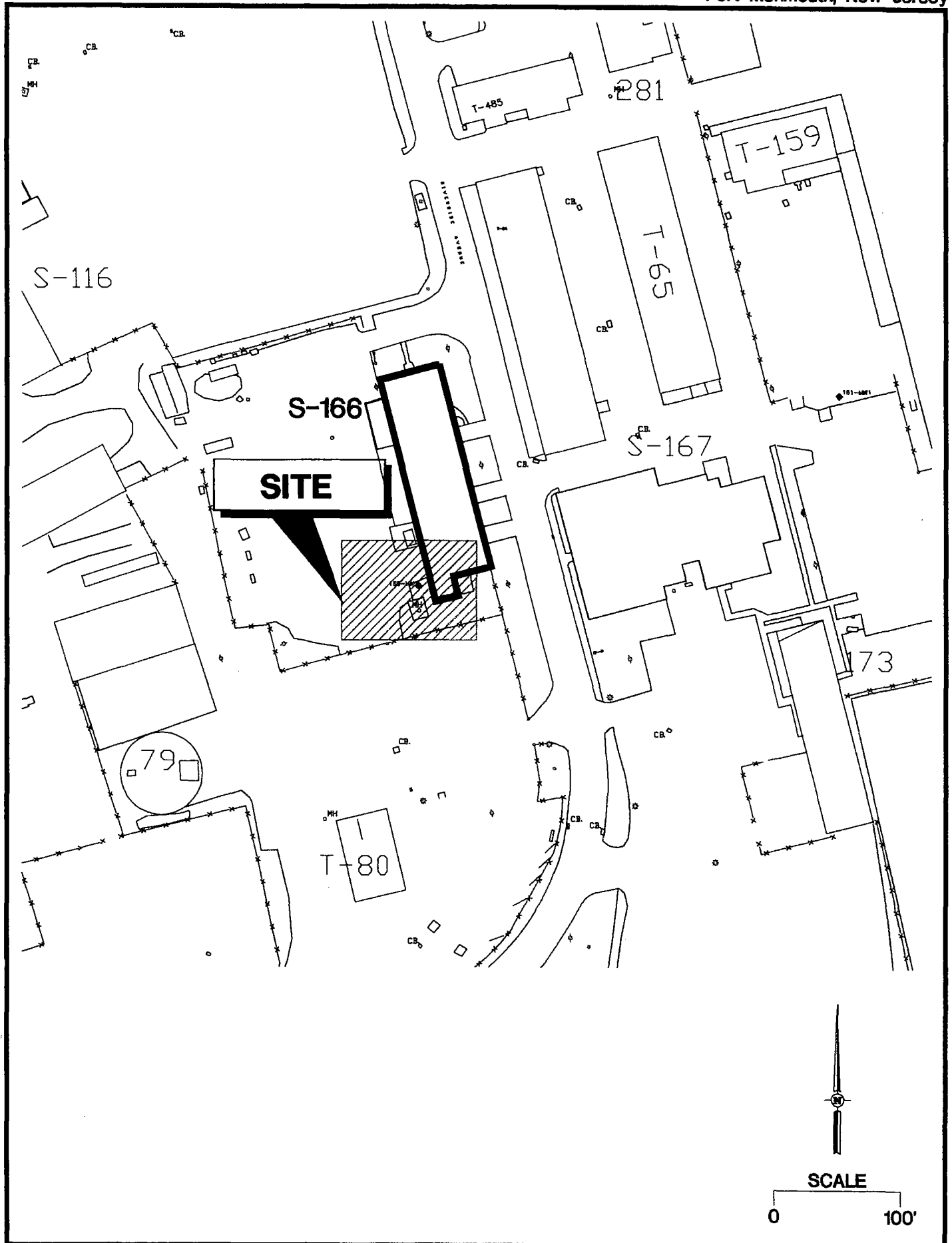
Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

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

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

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-



coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

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

Hydrogeology

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

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

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

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 involve 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

- All underground obstructions (utilities, etc.) were marked out by the contractor performing the closure prior to excavation activities.
- 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 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 Sub-Surface 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 all associated piping were removed. Approximately 3,348 gallons of liquid were removed from the UST prior to removal from the ground, and approximately 1,738 gallons were removed from the UST four days after the UST was removed from the excavation. A total of 5,086 gallons of liquid were transported by Freehold Cartage Inc. to Lionetti Oil Recovery Co. Inc., a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifests (NJ-1603243 and NJ-1603186).

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. No holes or punctures 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. Evidence of contamination was observed.

Soil screening was also performed along the piping associated with the UST. No contamination was noted anywhere along the piping length.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The fiberglass tank was transported by CUTE, Inc. to Fort Monmouth Reclamation Center for disposal in compliance with all applicable regulations and laws. See Appendix D for UST Disposal Certificate.

The removal contractor labeled the UST prior to transport with the following information:

- site of origin
- contact person
- NJDEP UST Facility ID number
- name of transporter/contact person
- destination site/contact person

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on visual observations, approximately 24 cubic yards of potentially contaminated soils were excavated from the UST excavation. 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 a designated site on Main Post for storage prior to ultimate disposal at Soil Remediation of Philadelphia. Soils that did not exhibit signs of contamination were used as backfill following 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 Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (September 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities.

- Closure Contractor: Cleaning Up the Environment Inc. (CUTE)
Closure Supervisor: John Lonergan
Phone Number: (201)427-2881
NJDEP Company Certification No. 200128
NJDEP UST Closure Certification No.: 3248
- Subsurface Evaluator: Dinkerrai M. Desai
Employer: U.S. Army, Fort Monmouth
Phone Number: (908) 532-1475
NJDEP Certification No.: E0002266
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
Contact Person: Brian K. McKee
Phone Number: (908)532-4359
NJDEP Certification No.: 13461
- Hazardous Waste Hauler: Freehold Cartage Inc.
Contact Person: Barry Olsen
Phone Number: (908)721-0900
NJDEP Hazardous Waste Hauler No.: 2265

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Additional soils were removed

from the excavation surrounding UST No. 090017-17 until no evidence of contamination remained.

2.3 SOIL SAMPLING

On June 16, 1994, post-excavation soil samples A, DUP A, B, C, D, E, F, G, and H were collected from a total of eight (8) locations along the sidewalls of the excavation, immediately above groundwater. The samples were collected at a depth of 7.5 feet below ground surface (bgs). Groundwater was present at approximately 8.0 feet bgs.

Following removal of the UST fuel lines, sample J was collected along the former piping length of the excavation, which ran less than 10 feet in length. The piping sample was collected at a depth of at 2.0 feet bgs. All soil samples were analyzed for total petroleum hydrocarbons (TPHC).

The site assessment was performed by U.S. Army personnel 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 polystyrene scoops. Actual soil TPHC values may be higher than reported, due to sample utensil absorbency. If absorbency resulted in reducing the actual soil TPHC concentration by 50 %, the highest soil contaminant would have been 1,472.0 mg/kg, still below the applicable NJDEP soil cleanup standard for total organic contaminants of 10,000 mg/kg. 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

In response to the observation of potentially contaminated soil near the shallow water table, one shallow monitoring well (MW-1) was installed at the Building 166 area on September 14, 1994. It was installed approximately 12 feet southwest of Building 166 in the downgradient direction. It was screened in the 2 to 10 feet depth interval, across the water table, which is approximately 3.0 feet below ground surface.

The well was constructed in accordance with the NJDEP's well construction protocols outlined in its May 1992 *Field Sampling Procedures Manual*. The NJDEP well drilling permit and a well construction log is presented in Appendix F.

The well was constructed with 4-inch (ID) PVC riser and 0.020 slotted PVC well screen. A silica sand pack was installed in the annulus between the borehole wall and the screen. The

TABLE 1
SUMMARY OF SAMPLING ACTIVITIES
BUILDING 166, MAIN POST
FORT MONMOUTH, NEW JERSEY

Sample ID	Date of Collection	Matrix	Sample Type	Analytical Parameters (and USEPA Methods) *	Sampling Method
A	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
B	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
C	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
D	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
E	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
F	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
G	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
H	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
DUP A	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
J	6/16/94	Soil	Post-Excavation	TPHC	Polystyrene Scoop
MW-1	5/18/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer
MW-1	6/13/95	Aqueous	Groundwater	VOCs, SVOCs	Teflon Bottom Fill Bailer

***Note:**

TPHC: Total Petroleum Hydrocarbons (Method 418.1 / soil and aqueous)
VOCs: Volatile Organic Compounds calibrated for xylene plus 10 tentatively identified compounds (Method 524.2 / aqueous)
SVOCs: Semivolatile Organic Compounds plus 15 tentatively identified compounds (Method 625 / aqueous)

Source: Smith Technology Corporation (Smith Project No. 09-5004-12)

GWT166.XLS

sandpack was extended approximately one foot above the top of the screen. The sand pack above the well screen was graded down to a fine sand to minimize grout intrusion.

The borehole was tremie-grouted with bentonite-cement grout from the top of the sand pack to 0.5 inches bgs. The well was secured with a water-tight, flush-mounted locking road box. The road box was set in place with concrete, which was placed in the remaining open borehole. The elevation of the well riser was surveyed to the nearest 0.01 feet by a New Jersey-licensed surveyor. The well permit number was marked on the well casing as required.

The monitoring well was developed using a peristaltic surface pump. The well was pumped for 1 hour or until silt free. All residual soils and liquids generated during monitoring well installation and development program were collected in New Jersey Department of Transportation-approved 55-gallon drums. The drums were placed in a designated secure location for waste characterization and off-site disposal.

2.4.2 Monitoring Well Sampling

On May 18, 1995 and June 13, 1995, MW-1 was sampled for VOCs and SVOCs. Sampling and analysis were performed in accordance with the NJDEP *Field Sampling Procedures Manual* and the *Technical Requirements for Site Remediation*.

Prior to sampling, the water level was measured to the nearest 0.01 feet, and the distance to the bottom of the well was to be measured to the nearest 0.1 feet. The well was checked for floating product (light non-aqueous phase liquids). The well was purged of three to five well volumes of standing water. Sample volume was then collected using a dedicated decontaminated Teflon bottom-filled bailer attached to PTFE (Teflon)-coated stainless steel cable.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

To evaluate soil conditions following removal of the UST and associated piping, post-excavation soil samples were collected from a total of nine (9) locations on June 16, 1994. All samples were analyzed for TPHC. The post-excavation soil sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling results are shown on Figure 3. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on June 16, 1994 from the UST excavation and from below piping associated with the UST, contained concentrations of TPHC below the NJDEP soil cleanup criteria. Post-excavation soil samples A, DUP A, B, C, D, E, F, H, and J, contained TPHC concentrations ranging from 13.1 mg/kg to 786.0 mg/kg. Sample G contained a non-detectable concentration of TPHC.

3.2 GROUNDWATER SAMPLING RESULTS

All VOC and SVOC results were either below the detection limit or in compliance with the New Jersey Groundwater Quality Criteria (GWQC).

The sample collected on May 18, 1995 from MW-1 contained methylene chloride at a concentration of 1.8 ug/l, and di-n-butylphthalate at 64 ug/l. No other compounds were detected. The trip blank contained methylene chloride at 5.1 ug/l. The field blank contained di-n-butylphthalate at 55 ug/l, and methylene chloride at 5.1 ug/l.

The sample collected on June 13, 1995 from MW-1 contained methylene chloride at 1.5 ug/l, and chloroform at 0.7 ug/l. No other compounds were detected. The trip blank contained methylene chloride at 2.3 ug/l. The field blank contained methylene chloride at 2.1 ug/l.

No product or sheen was observed in MW-1 on either of the sampling dates. The depth to the water table was 3.02 feet below ground surface on May 18, 1995 and 3.34 feet below ground surface on June 13, 1995.

All groundwater analytical results are presented in Table 3 and shown on Figure 4. The groundwater analytical data package is provided in Appendix F. The full data package, including quality control, is on file at U.S. Army Fort Monmouth, DPW.

TABLE 2
POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 166, MAIN POST
FORT MONMOUTH, NEW JERSEY

Sample ID/Depth	Sample Laboratory ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg)	NJDEP Soil Cleanup Criteria * (mg/kg)	Exceeds Cleanup Criteria
A/7.5-8.0'	1529.1	6/16/94	6/17/94	Total % Solid	--	--	86%	--	--
				TPHC	6.6	yes	42.9	10,000	--
B/7.5-8.0'	1529.2	6/16/94	6/17/94	Total % Solid	--	--	87%	--	--
				TPHC	6.6	yes	103	10,000	--
C/7.5-8.0'	1529.3	6/16/94	6/17/94	Total % Solid	--	--	85%	--	--
				TPHC	6.6	yes	13.1	10,000	--
D/7.5-8.0'	1529.4	6/16/94	6/17/94	Total % Solid	--	--	78%	--	--
				TPHC	6.6	yes	224	10,000	--
E/7.5-8.0'	1529.5	6/16/94	6/17/94	Total % Solid	--	--	86%	--	--
				TPHC	6.6	yes	70.6	10,000	--
F/7.5-8.0'	1529.6	6/16/94	6/17/94	Total % Solid	--	--	85%	--	--
				TPHC	6.6	yes	786	10,000	--
G/7.5-8.0'	1529.7	6/16/94	6/17/94	Total % Solid	--	--	86%	--	--
				TPHC	6.6	yes	ND	10,000	--
H/7.5-8.0'	1529.8	6/16/94	6/17/94	Total % Solid	--	--	83%	--	--
				TPHC	6.6	yes	63.6	10,000	--
DUP A/7.5-8.0'	1529.9	6/16/94	6/17/94	Total % Solid	--	--	88%	--	--
				TPHC	6.6	yes	21.0	10,000	--
J/2.0-2.5'	1529.10	6/16/94	6/17/94	Total % Solid	--	--	93%	--	--
				TPHC	6.6	yes	28.4	10,000	--

--: Not applicable / does not exceed criteria

*: Cleanup criteria for total organics

ND: Indicates compound not detected

Actual soil TPHC values may be higher than reported due to absorbancy by polystyrene scoops. If absorbancy resulted in reducing the actual soil TPHC concentration by 50%, the highest soil contaminant would be 1,572 mg/kg.

Source: Smith Technology Corporation (Smith Project No. 09-5004-12)

GWT166.XLS

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	300	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as azo)	6	--	ND	0.04	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	64	--	64	900	--
			Fluoranthene	1	--	ND	300	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--
			Butylbenzylphthalate	9	--	ND	100	--
			Benzo(a)anthracene	2	--	ND	0.05	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	0.005	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--
			SEMIVOLATILE TICS:					
			Unknown Hydrocarbon	--	--	5 J	--	--
			Undecane,3,6-dimethyl-	--	--	6 J	--	--
			Heptadecane,2,6,10,14-tetra	--	--	13 J	--	--
			Dodecane,2,7,10-trimethyl-	--	--	9 J	--	--
			Unknown	--	--	6 J	--	--
			TOTAL TICS:	--	--	39	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	1.8	--	1.8 B	2	--
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILE TICS

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	5/18/95	6/2/95	Unknown	--	--	1 J	--	--
			Naphthalene, decahydro-2-met	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	1 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown Hydrocarbon	--	--	1 J	--	--
			Unknown	--	--	3 J	--	--
			Unknown	--	--	3 J	--	--
			Unknown	--	--	3 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	1 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	1 J	--	--
			Unknown	--	--	1 J	--	--
			TOTAL TICS:	--	--	27	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	5/18/95	6/1/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	5.1	--	5.1 B	2	yes
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	5/18/95	6/1/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
VOLATILE TICS:								
NONE FOUND			--	--	--	--	--	

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/2/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	300	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as azo)	6	--	ND	0.04	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	55	--	55	900	--
			Fluoranthene	1	--	ND	300	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/1/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	5.1	--	5.1 B	2	yes
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	5/18/95	6/1/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/22/95	Benzidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--
			Butylbenzylphthalate	9	--	ND	100	--
			Benzo(a)anthracene	2	--	ND	0.05	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	0.005	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/27/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	1.5	--	1.5 B	2	--
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.7	--	0.7	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/27/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, MW-1
FORT MONMOUTH, NEW JERSEY
VOLATILE TICS:

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
MW-1	6/13/95	6/27/95	Unknown Hydrocarbon	--	--	2 J	--	--
			Unknown Hydrocarbon	--	--	3 J	--	--
			Unknown Hydrocarbon	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	4 J	--	--
			Unknown	--	--	3 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Unknown	--	--	2 J	--	--
			Naphthalene, decahydro-2-met	--	--	5 J	--	--
			Unknown	--	--	3 J	--	--
			Unknown	--	--	11 J	--	--
			Unknown	--	--	3 J	--	--
			TOTAL TICS:	--	--	48	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	6/13/95	6/21/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.3	--	2.3 B	2	yes
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, TRIP BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
TRIP BLANK	6/13/95	6/21/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/26/95	N-nitrosodimethylamine	2	--	ND	20	--
			bis(2-Chloroethyl)Ether	1	--	ND	10	--
			1,3-Dichlorobenzene	2	--	ND	600	--
			1,4-Dichlorobenzene	1	--	ND	75	--
			1,2-Dichlorobenzene	2	--	ND	600	--
			bis(2-chloroisopropyl)ether	5	--	ND	300	--
			N-Nitroso-Di-N-propylamine	2	--	ND	20	--
			Hexachloroethane	1	--	ND	10	--
			Nitrobenzene	2	--	ND	10	--
			Isophorone	1	--	ND	100	--
			bis(2-Chloroethoxy)methane	3	--	ND	--	--
			1,2,4-Trichlorobenzene	2	--	ND	9	--
			Naphthalene	2	--	ND	300	--
			Hexachlorobutadiene	2	--	ND	1	--
			Hexachlorocyclopentadiene	12	--	ND	50	--
			2-Chloronaphthalate	1	--	ND	--	--
			Dimethylphthalate	1	--	ND	--	--
			Acenaphthylene	5	--	ND	NA	--
			2,6-Dinitrotoluene	2	--	ND	NA	--
			Acenaphthene	3	--	ND	400	--
			2,4-Dinitrotoluene	3	--	ND	10	--
			Diethylphthalate	1	--	ND	5,000	--
			Fluorene	3	--	ND	300	--
			4-Chlorophenyl-phenylether	3	--	ND	--	--
			n-Nitrosodiphenylamine	6	--	ND	20	--
			1,2-Diphenylhydrazine(as azo)	6	--	ND	0.04	--
			4-Bromophenyl-phenylether	2	--	ND	--	--
			Hexachlorobenzene	2	--	ND	10	--
			Phenanthrene	2	--	ND	NA	--
			Anthracene	2	--	ND	2,000	--
			Di-n-butylphthalate	5	--	ND	900	--
			Fluoranthene	1	--	ND	300	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
SEMIVOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/26/95	Benidine	1	--	ND	50	--
			Pyrene	2	--	ND	200	--
			Butylbenzylphthalate	9	--	ND	100	--
			Benzo(a)anthracene	2	--	ND	NA	--
			3,3'-Dichlorobenzidine	15	--	ND	60	--
			Chrysene	2	--	ND	5	--
			bis(2-Ethylhexyl)phthalate	4	--	ND	30	--
			Di-n-octylphthalate	2	--	ND	100	--
			Benzo(b)fluoranthene	1	--	ND	0.05	--
			Benzo(k)fluoranthene	2	--	ND	0.5	--
			Benzo(a)pyrene	2	--	ND	0.005	--
			Indeno(1,2,3-cd)pyrene	2	--	ND	0.05	--
			Dibenz(a,h)anthracene	3	--	ND	0.005	--
			Benzo(g,h,i)perylene	2	--	ND	NA	--
			SEMIVOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/21/95	Dichlorodifluoromethane	0.5	--	ND	1,000	--
			Chloromethane	0.5	--	ND	30	--
			Bromomethane	0.5	--	ND	10	--
			Vinyl Chloride	0.5	--	ND	5	--
			Chloroethane	0.5	--	ND	--	--
			Trichlorofluoromethane	0.5	--	ND	--	--
			Methylene Chloride	2.1	--	2.1 B	2	yes
			trans-1,2-Dichloroethene	0.5	--	ND	100	--
			1,1-Dichloroethene	0.5	--	ND	2	--
			1,1-Dichloroethane	0.5	--	ND	70	--
			2,2-Dichloropropane	0.5	--	ND	--	--
			Bromochloromethane	0.5	--	ND	--	--
			cis-1,2-Dichloroethene	0.5	--	ND	10	--
			Chloroform	0.5	--	ND	6	--
			1,1-Dichloropropene	0.5	--	ND	--	--
			1,2-Dichloroethane	0.5	--	ND	2	--
			1,1,1-Trichloroethane	0.5	--	ND	30	--
			Dibromomethane	0.5	--	ND	--	--
			Carbon Tetrachloride	0.5	--	ND	2	--
			Bromodichloromethane	0.5	--	ND	1	--
			1,2-Dichloropropane	0.5	--	ND	1	--
			cis-1,3-Dichloropropene	0.5	--	ND	NA	--
			1,3-Dichloropropane	0.5	--	ND	--	--
			Trichloroethene	0.5	--	ND	1	--
			Dibromochloromethane	0.5	--	ND	10	--
			1,1,2-Trichloroethane	0.5	--	ND	3	--
			Benzene	0.5	--	ND	1	--
			trans-1,3-Dichloropropene	0.5	--	ND	NA	--
			Bromoform	0.5	--	ND	4	--
			1,1,1,2-Tetrachloroethane	0.5	--	ND	10	--
			Tetrachloroethene	0.5	--	ND	1	--
			1,1,2,2-Tetrachloroethane	0.5	--	ND	2	--

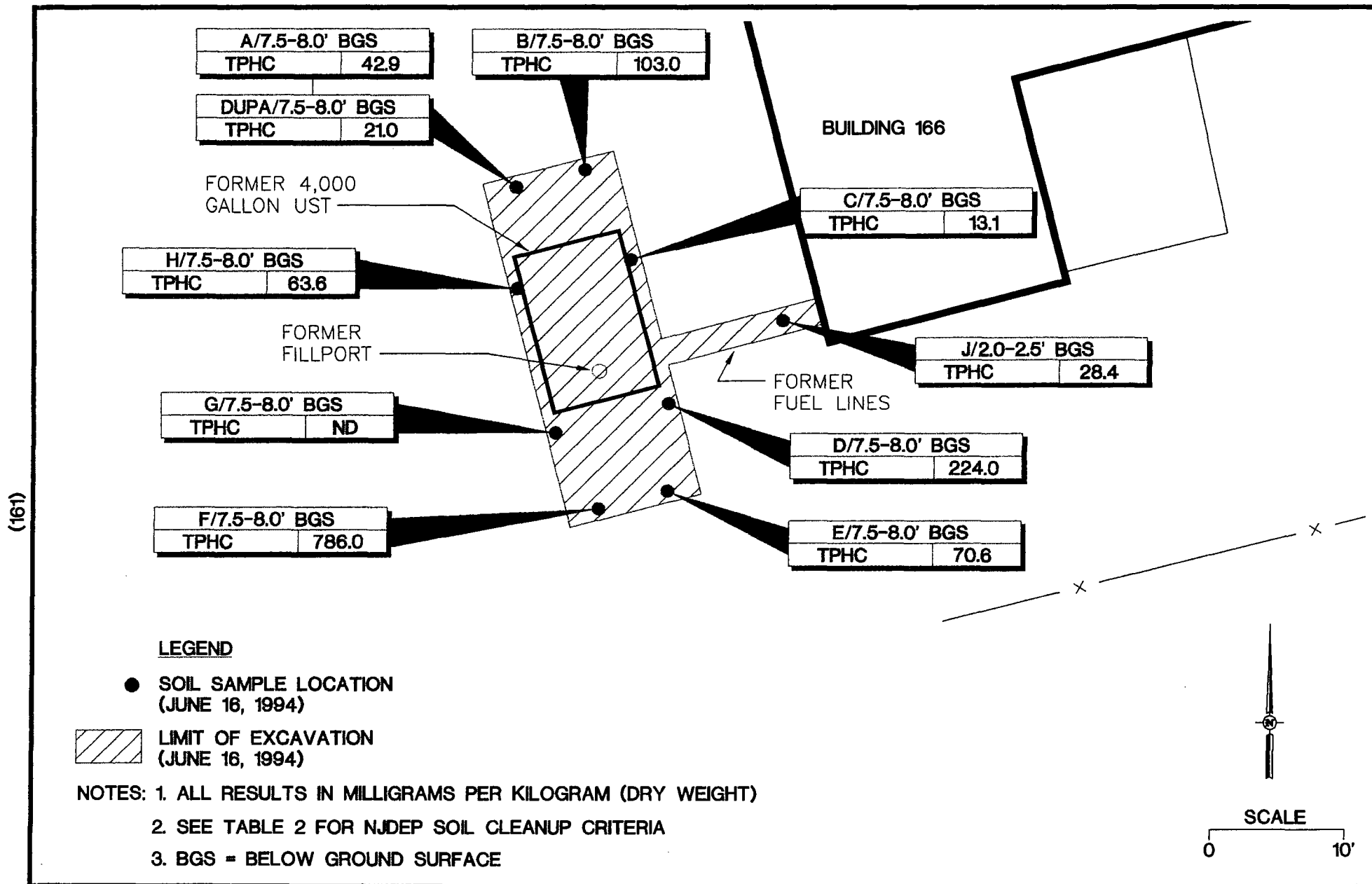
TABLE 3
GROUNDWATER SAMPLING RESULTS
BUILDING 166, MAIN POST, FIELD BLANK
FORT MONMOUTH, NEW JERSEY
VOLATILES (continued)

Sample ID	Sample Date	Analysis Date	Compound Name	Sample Quantitation Limit (ug/l)	Compound of Concern	Result (ug/l)	GWQS (ug/l)	Exceeds Criteria
FIELD BLANK	6/13/95	6/21/95	Toluene	0.5	--	ND	1,000	--
			1,2-Dibromoethane	0.5	--	ND	--	--
			Chlorobenzene	0.5	--	ND	4	--
			Ethylbenzene	0.5	--	ND	700	--
			Xylene (total)	0.5	--	ND	40	--
			Styrene	0.5	--	ND	100	--
			Isopropylbenzene	0.5	--	ND	--	--
			Bromobenzene	0.5	--	ND	--	--
			1,2,3-Trichloropropane	0.5	--	ND	40	--
			n-Propylbenzene	0.5	--	ND	--	--
			2-Chlorotoluene	0.5	--	ND	--	--
			4-Chlorotoluene	0.5	--	ND	--	--
			1,3,5-Trimethylbenzene	0.5	--	ND	--	--
			tert-Butylbenzene	0.5	--	ND	--	--
			1,2,4-Trimethylbenzene	0.5	--	ND	--	--
			sec-Butylbenzene	0.5	--	ND	--	--
			1,3-Dichlorobenzene	0.5	--	ND	600	--
			1,4-Dichlorobenzene	0.5	--	ND	75	--
			4-Isopropyltoluene	0.5	--	ND	--	--
			1,2-Dichlorobenzene	0.5	--	ND	600	--
			n-Butylbenzene	0.5	--	ND	--	--
			1,2-Dibromo-3-chloropropane	0.5	--	ND	NA	--
			1,2,4-Trichlorobenzene	0.5	--	ND	9	--
			Hexachlorobutadiene	0.5	--	ND	1	--
			Naphthalene	0.5	--	ND	300	--
			1,2,3-Trichlorobenzene	0.5	--	ND	--	--
			VOLATILE TICS:					
			NONE FOUND	--	--	--	--	--

TABLE 3

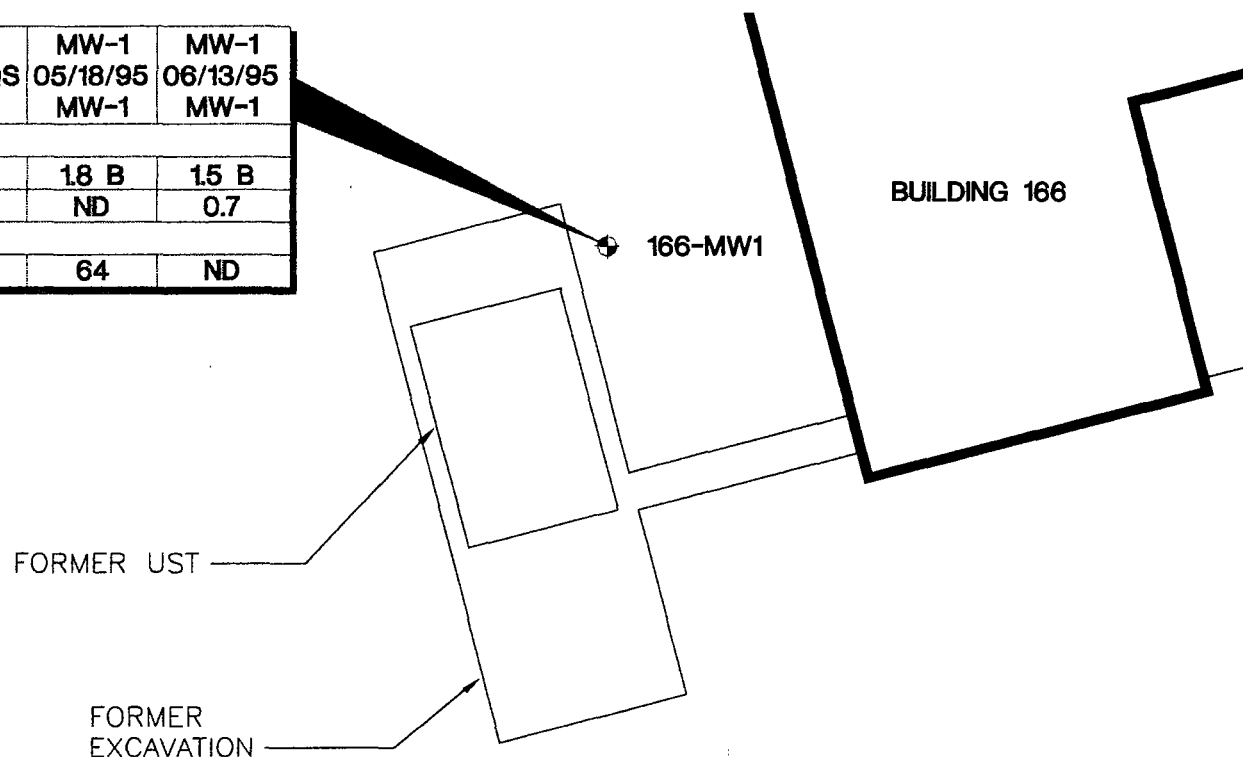
DATA ANALYSIS QUALIFIER DEFINITIONS
GROUNDWATER SAMPLING
FORT MONMOUTH, NEW JERSEY

--:	Not applicable / does not exceed criteria
(J):	Indicates detected below sample quantitation limit
(B):	Indicates also present in blank
(ND):	Indicates compound not detected
(NA):	Not available for this constituent
GWQS:	Groundwater Quality Standards



U.S. Army
Department of Public Works
Fort Monmouth, New Jersey

Sampling Location:	Higher of	MW-1	MW-1
Sampling Date:	NJDEP GWQS	05/18/95	06/13/95
Sampling ID:	and PQL	MW-1	MW-1
Volatile Organic Compounds:			
Methylene Chloride	2.0	1.8 B	1.5 B
Chloroform	8.0	ND	0.7
Semivolatile Organic Compounds:			
Di-n-butylphthalate	900.0	64	ND



LEGEND

MW-1  MONITORING WELL LOCATION
ND INDICATES COMPOUND NOT DETECTED
B INDICATES ALSO PRESENT IN BLANK

NOTE:

1. ALL RESULTS IN MICROGRAMS PER LITER

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 166 were below the NJDEP soil cleanup criteria for total organic contaminants.

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

Based on the analytical results of the groundwater samples collected on May 18, 1995 and June 13, 1995, groundwater quality at the Building 166 closure site complies with the New Jersey Groundwater Quality Standard for VOCs and SVOCs. The trace concentrations of methylene chloride detected during both sampling rounds is attributed to sampling and/or analytical interference, based on the detection of methylene chloride, a common source of laboratory interference, in the sampling blanks.

No further action is proposed in regard to the closure and site assessment of UST No. 090017-17 at Building 166.

APPENDIX A

NJDEP BUST CLOSURE APPROVAL



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

CHRISTINE TODD WHITMAN
Governor

ROBERT C. SHINN, JR.
Commissioner

Mr. Joseph Fallon
SELF-M-EH-EV
Department of the Army
Headquarters CECOM Fort Monmouth
Fort Monmouth, NJ 077703-5000

JUN 7 1994

Dear Mr. Fallon:

Re: UST Closures - Fort Monmouth
Fort Monmouth Army Base
Tinton Falls, Monmouth County

The NJDEPE has reviewed the four underground storage tank closure plans for UST number 0081533 tanks 1 and 171 and for UST number 0090010 tanks 17 and 18 submitted on May 31, 1994 for NJDEPE review and approval. The NJDEPE has determined that the closure plans for these tanks are consistent with the Technical Requirements for Site Remediation.

The remedial efforts associated with the closures of these tanks may commence as scheduled in each of the associated closure plans. This letter must be made available to any authorized personnel responsible for review and oversight of UST removals. This approval does not relinquish Fort Monmouth from fulfilling any Federal, County or Municipal requirement associated with the removal of underground storage tanks.

If you should have any questions or require additional information, please do not hesitate to contact me at (609) 633-1455.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Federal Case Management

RPCEIBFCMFTMMTH12.IRC

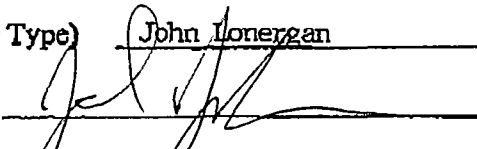
APPENDIX B

CERTIFICATIONS

UNDERGROUND STORAGE TANK (UST)
CLOSURE CERTIFICATION

BUILDING NO. 166NJDEP UST REGISTRATION NO. 90010-17DATE TANK REMOVED 6/16/94UO / CONTRACT NUMBER 91-0148

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 AND/OR IMPRISONMENT.

NAME (Print or Type) John LoneraganSIGNATURE NJDEP UST CLOSURE CERTIFICATE NO. 0003248COMPANY PERFORMING TANK DECOMMISSIONING CUTE IncNJDEP UST CLOSURE CORPORATE CERTIFICATE NO. 0200128DATE OF SUBMITTAL 7/19/94

APPENDIX C

WASTE MANIFEST



State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 028, Trenton, NJ 08625-0028

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. CMB No. 2050-0039. Expires 3-77

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ13121101012101519171031116	Manifest Document No. 031116	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address US Army Communications Electronic Command Main Post, c/o James Shirghio, Bldg 2504 ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ 07703 908 532-6224			State Manifest Document Number NJA 1603186		
4. Transporter 1 Company Name Freehold Cartage Inc.		5. US EPA ID Number NJ1J1D1015141121611614	B. State Generator's ID Main Post Fort Monmouth, NJ A-Bldg. 166 B-Bldg. T-8		
6. Transporter 2 Company Name		7. US EPA ID Number	C. State Trans. ID NJDEPE 52265		
8. Designated Facility Name and Site Address Lionetti Oil Recovery Runyon & Cheesequake Rds. Old Bridge, NJ 08857		9. US EPA ID Number NJ1J1D1018141014101614	D. Transporter's Phone 908 462-1001		
		10. US EPA ID Number	E. State Trans. ID		
			F. Transporter's Phone		
			G. State Trans. ID		
			H. Transporter's Phone		
			I. State Trans. ID		
			J. Transporter's Phone		
			K. State Trans. ID		
			L. Transporter's Phone		
			M. State Trans. ID		
			N. Transporter's Phone		
			O. State Trans. ID		
			P. Transporter's Phone		
			Q. State Trans. ID		
			R. Transporter's Phone		
			S. State Trans. ID		
			T. Transporter's Phone		
			U. State Trans. ID		
			V. Transporter's Phone		
			W. State Trans. ID		
			X. Transporter's Phone		
			Y. State Trans. ID		
			Z. Transporter's Phone		
			AA. State Trans. ID		
			AB. Transporter's Phone		
			AC. State Trans. ID		
			AD. Transporter's Phone		
			AE. State Trans. ID		
			AF. Transporter's Phone		
			AG. State Trans. ID		
			AH. Transporter's Phone		
			AI. State Trans. ID		
			AJ. Transporter's Phone		
			AK. State Trans. ID		
			AL. Transporter's Phone		
			AM. State Trans. ID		
			AN. Transporter's Phone		
			AO. State Trans. ID		
			AP. Transporter's Phone		
			AQ. State Trans. ID		
			AR. Transporter's Phone		
			AS. State Trans. ID		
			AT. Transporter's Phone		
			AU. State Trans. ID		
			AV. Transporter's Phone		
			AW. State Trans. ID		
			AX. Transporter's Phone		
			AY. State Trans. ID		
			AZ. Transporter's Phone		
			BA. State Trans. ID		
			BB. Transporter's Phone		
			BC. State Trans. ID		
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State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 028, Trenton, NJ 08625-0028

Note: oil contaminated
groundwater B125T-80
B125166

Use type or print in black letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-1030 Expires 10-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ321062659763243	Manifest Document No. NJA 1603243	2. Pages 1	Information in the shaded areas is not required by Federal law.
Generator's Name and Mailing Address US Army Communications Electronics Command c/o James Shirghio, Bldg 2504, ATTN: SELFM-DL-EM-MS, Fort Monmouth, NJ 07703 908 532-6224		3. US EPA ID Number NJ D O 5 4 1 2 6 1 6 4	B. State Generator's ID Main Post Fort Monmouth NJDEPES 2265 908 462-1001		
Off-site Address Freehold Cartage Inc. Lionetti Oil Recovery Co., Inc. Runyon & Cheesequake Rds. Old Bridge, NJ 08857		4. US EPA ID Number N J D O 8 4 0 4 4 0 6 4	5. State Generator's ID 908 721-0900		

X Petroleum Oil N.O.S. Class 3 (Petroleum Oil)
Combustible Liquid UN 1270 PG III

001TT01000G X722

X Petroleum oil, nos class 3 (Petroleum oil)
combustible liquid un 1270 PG III

001TT19386 X722

J Additional Descriptions of Materials Listed Above

K Additional Descriptions of Materials Listed Above

T,L Petroleum 1%
Water 99%

T04=Filtration

T,L Petroleum oil 1%
Water 99%

T04=Filtration

NOT REGULATED BY EPA. REGULATED AS HAZARDOUS WASTE IN NJ
24 HOUR EMERGENCY# 201-427-2881
NJ DECAL# 55182

A) B12580 009000-6

B) B125166 009000-19

INSTRUCTIONS: I hereby declare that the contents of this container are true and accurate, and are properly labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

I, the generator, certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be practicable, and that I have selected the practicable method of treatment, storage, or disposal currently available to me which meets the present and future needs of my business and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize waste generation and select the best available treatment method that is available to me and that I can afford.

Printed Name: **DINKER M. DESAI**

Signature: *[Signature]*

Month Day Year
06/20/94

Printed Name: **David S. Smith**

Signature: *[Signature]*

Month Day Year
06/20/94

Printed Name: **David S. Smith**

Signature: *[Signature]*

Month Day Year
06/20/94

Pumped excavation

NJA 1603243

UNDERGROUND STORAGE TANK REMOVAL (UST)

(Submit one form for each tank)

Building No. 166 NJDEPE UST Reg. No. 0090010 - 17

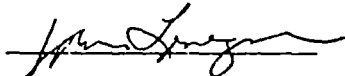
IJO No. 91-0148 Date Tank Removed 6/16/94

ITEM NO.	ITEM OF WORK	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
01100-1.1	Rmv ID#27 soil to stockpile	TN	\$14.50	35.15	\$ 509.68
01100-1.2	Supply, fill & relocate 55 Gal containers to storage	CT	\$47.50		\$ N/A
01100-1.4	Rmv & dispose of #2 fuel mixed with water Manifest #:NJA	GL	\$ 0.69	5,086	\$ 3,509.34
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	4,000	\$ 3,900.00
02050-5.1	Sawcut blacktop *	TN	\$27.50		\$ N/A
02050-5.2	Sawcut concrete *	TN	\$29.50	✓ 15	\$ 442.50
02050-5.3	Sawcut reinforced concrete	TN	\$32.50		\$ N/A
02222-1.1	Backfill cert. clean fill *	TN	\$16.25	35.15	\$ 571.19
02222-1.2	3/4" clean stone *	TN	\$17.50		\$ N/A
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		\$ 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.

\$8,932.71

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 and/or imprisonment.

NAME (Print or Type): John Lonergan SIGNATURE: 

NJDEPE UST Closure Cert. #: 0003248 DATE: 7/28/94

COMPANY NAME: CUTE, Inc.
(Performer of Tank Decommissioning)

NJDEPE UST Closure Corp. Cert. #: 0200128

List of Abbreviations:

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

CALCULATION SHEET

Building No. 166

NJDEPE Reg. No. 0090010-12

Tank Size 4000 gal

Tank Void 30.0 tons

CLEAN FILL

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
02222-1.1	clean fill	22.13	18767
		21.78	18725
		21.24	18787

TOTAL 65.15

STONE

ITEM NO.	DESCRIPTION	QUANTITY	TICKET #
	N/A		

TOTAL

ID#27 soil to stockpile $(65.15 + \emptyset) - 30.0 = 35.15$ tons

Chargeable clean fill 35.15 tons

Chargeable stone N/A



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

18767

Order Date 7/1/11

Name Joe A. Tondino

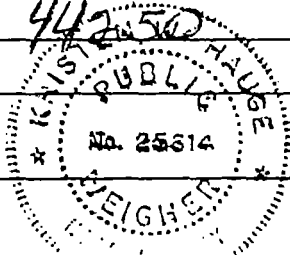
Deliver Date / /

Address 6101 Hill

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☒

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	69800		
	25550	22.13 tons	
	44250		
Driver <u>Don Ellis</u>		Sub Total	
Received <u>Don Ellis</u>		Delivery	
* Company not responsible for damage done off public roads. Color not guaranteed!		N.J. Tax	
Have gravel will travel! since 1925		Total	





1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

18775

Order Date Jul 30, 77

Deliver Date / /

Delivered ☐ C.O.D. ☐

F.O.B./P.U. ☐ Charge ☒

Name

Address

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	C 69100		
	T 25550	21.78 tons	
	N 43550		

Driver

Received

* Company not responsible for damage done off public roads. Color not guaranteed!

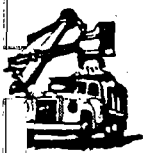
*Have gravel will travel!
since 1925*

Sub Total

Delivery

N.J. Tax

Total



1453 W. Park Ave., Wayside
Asbury Park, N.J. 07712
908-493-3333

18787

Order Date June 2, 20, 91

Name Don E. Miller

Deliver Date / /

Address 1011 Hill

Delivered ☐

C.O.D. ☐

F.O.B./P.U. ☐

Charge ☒

Item(s)	Quantity / Measure (tons, lbs., yds., ea.)	Unit Price	Total
	68000		
	2500		
	42720	21.24 tons	

Driver Don Miller

Received Don Miller

Company not responsible for damage done off public roads: Color not guaranteed!

Have gravel will travel!
since 1925

Sub Total

Delivery

N.J. Tax

Total

APPENDIX D

UST DISPOSAL CERTIFICATE

Tank 271-0081533-55

Tank 166-0090010-17

MAZZA & SONS, INC.

Recycling Division

3230 Shatto Road • Tinton Falls, NJ 07753

(908) 922-9292

79668

Tank 271 3.43 TONS

Tank 166 15 TONS

Recycling Material Receipt Form

Customer: Cute inc
Address: Midland Park
Job Location: Sedentown, Fort Monmouth
Date: 6 July 94

Truck/Container No 1

License Plate/D.E.P.# XAE 1491

☐ 10 yd

☐ 20 yd

☐ 30 yd

☐ 40 yd

☐ 50 yd

(18)

64280

27420

36860

18.43
Tons

(M)

Concrete	
Asphalt	
Stumps	
Brush	
Wood	
Pallets	
Glass	
Tires	
Painted Wood	
Shingles	
TOTAL:	COD ☒ ELL ☒

Weighmaster: (P)

Customer: Don Ellis

APPENDIX E

MONITORING WELL PERMIT AND CONSTRUCTION LOG

MONITORING WZ. CERTIFICATION-FORM B-LOCAL 1 CERTIFICATION

Name of Permittee: U.S. ARMY
Name of Facility: FORT MONMOUTH
Location: MONMOUTH COUNTY, NJ
NJPDIS Number: 94-6-16-1545-09

Dear

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Longitude (to nearest second):

Latitude (to nearest second):

Elevation of Top of Inner Casing (cap off)
(one-hundredth of a foot):

Elevation of ground level (1/100th ft.)

Source of elevation datum (benchmark, nail, etc.) and year. (If an alternate datum has been approved by the Department, identify here, assume datum of 100', and give approximated actual elevation.)

Owners Well Number (As shown on application or plans):

Elevations are to be determined by double run, three wire leveling methods using balanced sights, commencing from a well marked and described point. This beginning point shall either be derived from Federal or State benchmarks if not more than 1000 feet from the site or from an alternate datum approved by the Department. Tolerances should meet third order standards, which are 0.05 ft x (mile)^{1/2}. For sections less than 0.1 mile, let miles = 0.1.

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Wayne W. Burgett
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

WAYNE W. BURGETT
PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

31654
PROFESSIONAL LAND SURVEYOR'S LICENSE #

29-31773-

West 74°01'44.69"

North 40°19'03.08"

6.96

7.49

Source: MON. FM-6

☒ 1927 ☐ 1983

Elev.:

BLDG. 166 MW-4

SEAL

SERIAL # 41182

DWR-133M (10/93)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

Mail to

NJDEPE
Bureau Water Allocation
CN426
Trenton, NJ 08625

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.E.

Permit No. 2931773

COORD # 2913

Owner US Army Fort Monmouth
Address SELF-M-PW-EV
Fort Monmouth, NJ 07703
Name of Facility Cldg 5166
Address Main Post
Fort Monmouth, NJ

Driller Tyco Organization, Ltd
Address 7350 US Hwy 130
Durham, NC 28016

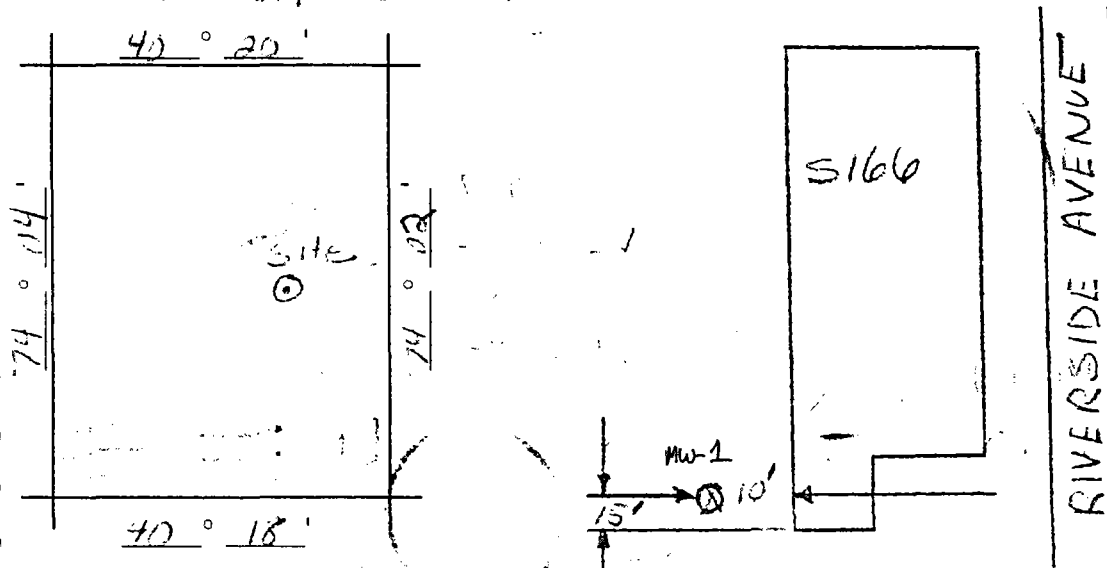
Diameter of Well(s) <u>4</u> Inches	Proposed Depth of Well(s) <u>15</u> Feet
# of Wells Applied for (max. 10) <u>1</u>	Will pumping equipment be installed? YES ☐ NO ☒
Type of Well (see reverse) <u>Monitoring</u>	If Yes, give pump capacity <u>N/A</u> GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
		<u>Fort Monmouth</u>	<u>Monmouth</u>

State Atlas Map No. 27

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



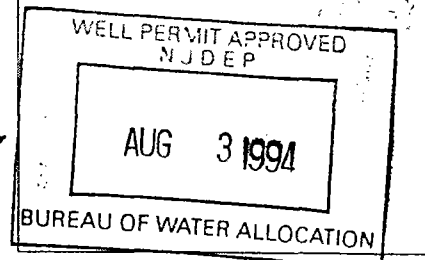
FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ Spill Site
- ☐ ISRA Site
- ☐ CERCLA (Superfund) Site
- ☐ RCRA Site
- ☒ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____

CASE I.D. Number

94-6-16-1545-09
(5th Bldg 166)

This Space for Approval Stamp



FOR D.E.P.E. USE

- ☐ Issuance of this permit is subject to the conditions attached. (see next page)
- ☒ For monitoring purposes only

The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 7-25-94

Signature of Driller

License # 1421

Signature of Owner

SELF-M-PW-EV

MONITORING WELL RECORD

Well Permit No. 12-11771
Atlas Sheet Coordinates 14 16 1545 029 ☐OWNER IDENTIFICATION - Owner THE ARMY 16401 HENRY 1711
Address 10000 HWY
City PORT HENRY 1711 State NY Zip Code WELL LOCATION - If not the same as owner please give address. Owner's Well No. DM-116 MW-1
County HERKIMER Municipality DECATUR 1810 Lot No. Block No.
Address TYPE OF WELL (as per Well Permit Categories) WATER SUPPLY Date well completed 9/14/94
Regulatory Program Requiring Well 1877 Case I.D. # 14 16 1545 029CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tele. #

WELL CONSTRUCTION

Total depth drilled 13 ft.Well finished to 10 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☐ NoStatic water level after drilling 3 ft.Water level was measured using TubeWell was developed for 1 hours at 10 gpmMethod of development pumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity gpmPump type: Drilling Method AugerDrilling Fluid Type of Rig B380Name of Driller Michael E. BeckHealth and Safety Plan submitted? ☒ Yes ☐ NoLevel of Protection used on site (circle one) (None) D C B AN.J. License No. 1421Name of Drilling Company

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	<u>10</u>	<u></u>	<u></u>	<u></u>
Outer Casing (Not Protective Casing)	<u></u>	<u></u>	<u></u>	<u></u>
Screen (Note slot size)	<u>6"</u>	<u>10'</u>	<u>4</u>	<u>30 slot PVC</u>
Tail Piece	<u></u>	<u></u>	<u></u>	<u></u>
Gravel Pack	<u>1'</u>	<u>10'</u>	<u></u>	<u>#20 No. 6 sand</u>
Annular Seal/Grout	<u>6"</u>	<u>1'</u>	<u></u>	<u>Bestonite Portland</u>
Method of Grouting	<u>Thiokol</u>			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)

0-6' topsoil 15-bulk
6-11' Black fine sand
11-3' Med brown silts +
fine sand
3'-10' Med. brown fine-medium
sand
10'-11' Med. brown fine-med. sand
11-13' Pea gravel; rounded

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Michael E. BeckDate 10-15-94



U.S. ARMY
FORT MONMOUTH
SELF-PM PW EV

LOG OF BORING 166-MW1

(Page 1 of 1)

Mainpost Well Logs

Project Name : BLDG. 166 Completion Date : 08/03/94
NJDEP CASE # : 94-6-16-1545-09 NORTHING : N 541238.652
Logged By : TYREE INC. EASTING : E 2177852.302
start date : 08/03/94 Driller : M. BECK

Depth in Feet	29-31777 ELEV: 6.96	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft	% Rec- overy	Well Construction Information
0		Asphalt subbase		14				WELL CONSTRUCTION Date Compl. : 10/05/94 Hole Diameter : 8 in Drill. Method : HSA Company Rep. : M. BECK WELL CASING Material : PVC Diameter : 4 in. Joints : threaded WELL SCREEN Material : PVC Diameter : 4 in. Joints : threaded Opening : 20 slot SAND PACK : #2 MORIE SAND ANNULUS SEAL : Bentonite/Portland : TREMMIE WELL SCREEN Material : PVC Diameter : 4 in. Cap : NOTES Well #1 is 166 MW1 Flushmount Water depth 3.5'
1.		Black fine sand with asphalt		SP				
2.		Medium brown silts and fine sand with few pebbles		SM				
		Medium brown, fine/medium sand wet at 3ft with black fines		SP	1	12	100	
4		Greenish grey soft clay with light brown, fine sand + silts		CL				
		Dark brown silts with light brown soft clay, moist at approx. 6'		CL	2	10	100	
6		Brown soft clay with black fines; wet at approx. 11'		CL				
8								
10								
12								
13								
14								

APPENDIX F

SOIL ANALYTICAL DATA PACKAGE

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

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 167
Ft. Monmouth, NJ 07703

Lab. ID #: 1529.1-.10
Sample Rec'd: 06/16/94
Analysis Start: 06/17/94
Analysis Comp: 06/17/94

Analysis: 418.1 (TPH)
Matrix: Soil
Analyst: S. Hubbard
Ext. Meth: Sonc.

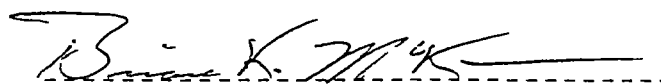
NJDEPE UST Reg. #: 0090010-
Closure #:
DICAR #: 94-6-16-1545-09
Location #: Bldg. 166

Lab ID.	Description	%Solid	Result (mg/Kg)	MDL
1529.1	Site A, North W OVA= 30	86	42.9	6.6
1529.2	Site B, North E OVA= 50	87	103.	6.6
1529.3	Site C, OVA= 35	85	13.1	6.6
1529.4	Site D, OVA= 10	78	224.	6.6
1529.5	Site E, OVA= 30	86.	70.6	6.6
1529.6	Site F, OVA= 90	85	786.	6.6
1529.7	Site G, OVA= 70	86	ND	6.6
1529.8	Site H, OVA= 10	83	63.6	6.6
1529.9	Site I, OVA= ND	88	21.0	6.6
1529.10	Site J, OVA= 20	93	28.4	6.6
M. Bl.	Method Blank	100	ND	3.3

Notes: ND = Not Detected, MDL = Method Detection Limit

* = Silica Gel Added, NA = Not Applicable

1529.10dup= 90% 1529.10s= 125% 1529.10sd= 105% RPD=17.3%


Brian K. McKee
Laboratory Director

SERV-AIR, INC.

P.O. #: ~~00~~ PWS-67

Chain of Custody

Project #: LTR 7 JUNE 94		Sampler: CUTE, INC		Date / Time: 6-16-94		Analysis Parameters		Start:	
Customer: DINKER DESAI SELF-PW-EV		Site Name: BLDG 166 UST 0090010 - LTR 7 JUNE 1994 DICAR #94-6-16-1545-09 aer#20						Finish:	
Phone: X 21475								Preservation Method	
Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	TPH C 90 SOLID MUNSEL OVA				Remarks
1529.1	6-16-94 1610	SITE A - NORTH/W	SOIL	1				30	
2	1615	B - NORTH-E						50	
3	1620	C						35	
4	1625	D						10	
5	1628	E						30	
6	1630	F						90	
7	1633	G						70	
8	1637	H						10	CALIB 6/16 1110
9	1640	I						ND	OVA-128
10	1642	J						20	S/N A52114
									0% AIR
									95% METHANE
Relinquished By (signature)		Date / Time		Received By (signature)		Shipped By:		CAL = 94 PPM @ 3.0	
		6 16						B. N'K	
Relinquished By (signature)		Date / Time		Received for Lab by (signature):		Date / Time			
						6/16/94 1700			

Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 167
Ft. Monmouth, NJ 07703

Analysis: Munsel



Brian K. McKee
Laboratory Director

June 17, 1994

Sarah J. Hubbard

Blank 0 MV

40.75 108 MV

81.5 209 MV

163 412 MV

1529.1 17 MV

1529.2 37 MV

1529.3 13 MV

1529.4 69 MV

1529.5 26 MV

1529.6 256 MV

1529.7 4 MV

1529.8 23 MV

1529.9 10 MV

1529.10 13 MV

1529.10 12 MV

Dup

1529.10 47 MV

Sph

1529.10 40 MV

Dup
Spk

PHC Conformance/Non-conformance Summary Report

No Yes

1. Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank

✓ —

2. Matrix Spike/Matrix Sp Dup. Recoveries Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)

— ✓

3. IR Spectra submitted for standards, blanks, & samples

— ✓

4. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.

— ✓

5. Extraction holding time met.

(If not met, list number of days exceeded for each sample)

— ✓

6. Analysis holding time met.

(If not met, list number of days exceeded for each sample)

— ✓

Comments:

Laboratory Authentication Statement

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

Project #1529

Brian K. McKee
Brian K. McKee
Laboratory Manager

APPENDIX G
GROUNDWATER ANALYTICAL DATA PACKAGE

EMSL ANALYTICAL, INC.

Asbestos - Lead - Environmental - Materials



001

ANALYTICAL DATA REPORT

FOR

U.S. Army Fort Monmouth
SELF-M-PW-EV
Building 173
Fort Monmouth, NJ 07703

PROJECT : #94616154509

EMSL Project: # 9508275

Field Sample No. & Location	Laboratory Sample ID	Matrix	Date & Time of Collection		Date Received
1833.1 Bldg. 166 MW1-2931773	95-23167	Aqueous	5/18/95	12:25	5/19/95
1830.4 Trip Blank	95-23164	Aqueous	5/18/95	06:15	5/19/95
1830.5 Field Blank	95-23165	Aqueous	5/18/95	14:30	5/19/95

Laboratory Name

EMSL ANALYTICAL, INC.

Certification No.

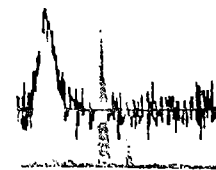
NJDEP No. 04653
PADER No. 68-367
NY-ELAP No. 10896

Supervisor/Manager Signature
Printed Name

Paul V. Laraia
Paul V. Laraia

Date

06-27-95



003

EMSL

SAMPLE DATA SUMMARY PACKAGE



004

EMSL

Attention: Charles Appleby
U.S. Army - Fort Monmouth
SELF-M-PW-EV
Building 173
Fort Monmouth NJ 07703

Date of Report: 06/23/95
Project Number: 09508275
Lab ID: 95-0023167
Date Collected: 05/18/95 12:25
Collected By: Client
Date Received: 05/19/95 07:00

Client Project: 94616154509

Client Designation: Bldg.166,MW1-2931773

Conc.	Unit
-------	------

ORGANIC

Semi-Volatiles

BN by 625 with Library Search

see attached ug/l

Volatiles

Volatiles by 524.2 w/ Library Search

see attached ug/l

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

9523167B

Lab Name: EMSL ANALYTICAL

Contract: _____

Bldg. 166 MW-293/773

Project No.: _____

Site: _____

Location: _____

Group: _____ 005

Matrix: (soil/water) WATER

Lab Sample ID: 9523167B

Sample wt/vol: 1000.0 (g/mL ML

Lab File ID: B7780.D

Level: (low/med) _____

Date Received: 5/19/95

% Moisture: _____

decanted: (Y/N): N

Date Extracted: 5/25/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 6/2/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine	2	U	U
111-44-4	bis(2-Chloroethyl)ether	1	U	U
541-73-1	1,3-Dichlorobenzene	2	U	U
106-46-7	1,4-Dichlorobenzene	1	U	U
95-50-1	1,2-Dichlorobenzene	2	U	U
108-60-1	bis(2-chloroisopropyl)ether	5	U	U
621-64-7	N-Nitroso-Di-n-propylamine	2	U	U
67-72-1	Hexachloroethane	1	U	U
98-95-3	Nitrobenzene	2	U	U
78-59-1	Isophorone	1	U	U
111-91-1	bis(2-Chloroethoxy)methane	3	U	U
120-82-1	1,2,4-Trichlorobenzene	2	U	U
91-20-3	Naphthalene	2	U	U
87-68-3	Hexachlorobutadiene	2	U	U
77-47-4	Hexachlorocyclopentadiene	12	U	U
91-58-7	2-Chloronaphthalene	1	U	U
131-11-3	Dimethylphthalate	1	U	U
208-96-8	Acenaphthylene	5	U	U
606-20-2	2,6-Dinitrotoluene	2	U	U
83-32-9	Acenaphthene	3	U	U
121-14-2	2,4-Dinitrotoluene	3	U	U
84-66-2	Diethylphthalate	1	U	U
86-73-7	Fluorene	3	U	U
7005-72-3	4-Chlorophenyl-phenylether	3	U	U
86-30-6	n-Nitrosodiphenylamine	6	U	U
122-66-7	1,2-Diphenylhydrazine(as azo)	6	U	U
101-55-3	4-Bromophenyl-phenylether	2	U	U
118-74-1	Hexachlorobenzene	2	U	U
85-01-08	Phenanthrene	2	U	U
120-12-7	Anthracene	2	U	U
84-74-2	Di-n-butylphthalate	64		
206-44-0	Fluoranthene	1	U	U
92-87-5	Benzidine	1	U	U

SAMPLE NO.

0106

Contract:

Group:

Lab Sample ID: 9523167B

Lab File ID: B7780.D

Date Received: 5/19/95

Date Extracted: 5/25/95

Date Analyzed: 6/2/95

Dilution Factor: 1.0

pH:

Concentration Units:

[illegible]

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

007

9523167B

6/6/95 MEL-2931773

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9523167B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B7780.D

Level: (low/med) _____ Date Received: 5/19/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 5/25/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units: _____

Number TICs found: 5 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown Hydrocarbon	18.11	5	J
2. 17301-28-9	Undecane, 3,6-dimethyl-	21.02	6	J
3. 18344-37-1	Heptadecane, 2,6,10,14-tetra	21.85	13	J
4. 74645-98-0	Dodecane, 2,7,10-trimethyl-	23.28	9	J
5.	Unknown	29.91	6	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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27.				
28.				
29.				
30.				

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

FMEC #1833.1

6/24/66 MW1-243173

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523167
Lab File ID: C8336.D
Date Received: 05/19/95
Date Analyzed: 06/02/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

75-71-8-----	Dichlorodifluoromethane	.50	U
74-87-3-----	Chloromethane	.50	U
74-83-9-----	Bromomethane	.50	U
75-01-4-----	Vinyl Chloride	.50	U
75-00-3-----	Chloroethane	.50	U
75-69-4-----	Trichlorofluoromethane	.50	U
75-09-2-----	Methylene Chloride	1.8	B
156-60-65-----	trans-1,2-Dichloroethene	.50	U
75-35-4-----	1,1-Dichloroethene	.50	U
75-34-3-----	1,1-Dichloroethane	.50	U
594-20-7-----	2,2-Dichloropropane	.50	U
74-97-1-----	Bromochloromethane	.50	U
156-59-2-----	cis-1,2-Dichloroethene	.50	U
67-66-3-----	Chloroform	.50	U
563-58-6-----	1,1-Dichloropropene	.50	U
107-06-2-----	1,2-Dichloroethane	.50	U
71-55-6-----	1,1,1-Trichloroethane	.50	U
74-95-3-----	Dibromomethane	.50	U
56-23-1-----	Carbon Tetrachloride	.50	U
75-27-4-----	Bromodichloromethane	.50	U
78-87-1-----	1,2-Dichloropropane	.50	U
10061-01-1----	cis-1,3-Dichloropropene	.50	U
142-28-9-----	1,3-Dichloropropane	.50	U
79-01-6-----	Trichloroethene	.50	U
124-48-1-----	Dibromochloromethane	.50	U
79-00-1-----	1,1,2-Trichloroethane	.50	U
71-43-2-----	Benzene	.50	U
10061-02-6----	trans-1,3-Dichloropropene	.50	U
75-25-2-----	Bromoform	.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	.50	U
127-18-4-----	Tetrachloroethene	.50	U
79-34-1-----	1,1,2,2-Tetrachloroethane	.50	U
108-88-3-----	Toluene	.50	U
106-93-4-----	1,2-Dibromoethane	.50	U
108-90-7-----	Chlorobenzene	.50	U
100-41-4-----	Ethylbenzene	.50	U
1330-29-7-----	Xylene (total)	.50	U

U= Not Detected

US Army Ft. Monmouth N.J.

000

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET *FmetL #1833.1*
EPA 524.2

6/16/95 MWI-2931773

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523167
Lab File ID: C8336.D
Date Received: 05/19/95
Date Analyzed: 06/02/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

100-42-1-----	Styrene	.50	U
98-82-8-----	Isopropylbenzene	.50	U
108-86-1-----	Bromobenzene	.50	U
96-18-4-----	1,2,3-Trichloropropane	.50	U
103-65-1-----	n-Propylbenzene	.50	U
95-49-8-----	2-Chlorotoluene	.50	U
106-43-4-----	4-Chlorotoluene	.50	U
108-67-8-----	1,3,5-Trimethylbenzene	.50	U
98-06-6-----	tert-Butylbenzene	.50	U
95-63-6-----	1,2,4-Trimethylbenzene	.50	U
135-98-8-----	sec-Butylbenzene	.50	U
541-73-1-----	1,3-Dichlorobenzene	.50	U
106-46-7-----	1,4-Dichlorobenzene	.50	U
99-87-6-----	4-Isopropyltoluene	.50	U
95-50-1-----	1,2-Dichlorobenzene	.50	U
104-51-8-----	n-Butylbenzene	.50	U
96-12-8-----	1,2-Dibromo-3-chloropropane	.50	U
120-82-1-----	1,2,4-Trichlorobenzene	.50	U
87-68-3-----	Hexachlorobutadiene	.50	U
91-20-3-----	Naphthalene	.50	U
87-61-6-----	1,2,3-Trichlorobenzene	.50	U

COMMENT

U= Not Detected

BLDG.#: 166 MW#: 1 NJDEPE WELL ID # 2931773

U.S. ARMY FORT MONMOUTH

010

MONITORING WELL SAMPLING DATASHEET

DATE: 5-18-95

IJO#95-0091

SAMPLING CONTRACTOR: EMSL Analytical Services Inc.

LABORATORY: EMSL Analytical Services, NJDEP CERT #:

SAMPLERS NAMES: Tom Baxter Susan Palilonis

WEATHER CONDITIONS: overcast breezy

ELEVATION OF CASING SURVEY MARK:

TOTAL DEPTH OF WELL FROM TOP OF SURVEYORS MARK: 8.20 FT

DEPTH FROM SURVEYORS MARK TO SCREEN: FT

LENGTH OF SCREENED SECTION: FT.

DEPTH TO WATER PRIOR TO PURGING AND SAMPLING: 3.02 FT

ELEVATION OF GW PRIOR TO PURGING: FT

THICKNESS OF LNAPL PRIOR TO PURGING: 0.0 FT

PID/Hnu READING IMMEDIATELY AFTER THE WELL CAP IS

REMOVED: 34 PPM ¹²⁰⁰ DO: 1.2 ppm

pH: 6.20 TEMP: 20.3 C, SPECIFIC CONDUCTIVITY: 698 us/cm

DEPTH OF WELL: FT

HEIGHT OF WATER: FT

EVACUATED GAL. H2O: 10 GAL (5.18 X .65 X 3 = 10.101)

PURGING START TIME: 1208 END TIME: 1211

PURGE METHOD: (FLOW RATE OF <0.5 GPM TO >5.0

GPM) Pump

PURGE RATE (<0.5 GPM): 3 GPM

TOTAL VOLUME PURGED: 10 GAL.

DEPTH TO WATER AFTER PURGING AND BEFORE

SAMPLING: 3.13 FT

DISSOLVED OXYGEN: 1.2 ppm pH: 6.22 TEMP: 20.3 °C

SPECIFIC CONDUCTIVITY: 767 us/cm

SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP

FSPM 1992) TEFLON® BAILER

START TIME OF SAMPLING: 1219 END TIME: 1226

DISSOLVED OXYGEN: 0.6 ppm pH: 6.50 TEMP: 20.6 °C

SPECIFIC CONDUCTIVITY: 730 us/cm

COMMENTS: on the 115.0m flush screen well - Inside casing they

flushed the well - checked

well - checked

1A
VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2

FMETL#1830, Y
Bldg 166
TRIP BLANK

Lab Name: EMSL ANALYTICAL
Matrix (soil/water): WATER
Sample wt/vol: 25 mL
Level (low/med): LOW
% Moisture: not dec.: NA
GC Column: DB-624 x 75m ID: 0.53mm
Soil Extract Volume: NA

Lab Sample ID: 9523164
Lab File ID: C8316.D
Date Received: NA
Date Analyzed: 06/01/95
Dilution Factor: 1
Soil Aliquot Volume: NA

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L COMMENT

75-71-8-----	Dichlorodifluoromethane	.50	U
74-87-3-----	Chloromethane	.50	U
74-83-9-----	Bromomethane	.50	U
75-01-4-----	Vinyl Chloride	.50	U
75-00-3-----	Chloroethane	.50	U
75-69-4-----	Trichlorofluoromethane	.50	U
75-09-2-----	Methylene Chloride	5.1	B
156-60-65----	trans-1,2-Dichloroethene	.50	U
75-35-4-----	1,1-Dichloroethene	.50	U
75-34-3-----	1,1-Dichloroethane	.50	U
594-20-7-----	2,2-Dichloropropane	.50	U
74-97-1-----	Bromochloromethane	.50	U
156-59-2-----	cis-1,2-Dichloroethene	.50	U
67-66-3-----	Chloroform	.50	U
563-58-6-----	1,1-Dichloropropene	.50	U
107-06-2-----	1,2-Dichloroethane	.50	U
71-55-6-----	1,1,1-Trichloroethane	.50	U
74-95-3-----	Dibromomethane	.50	U
56-23-1-----	Carbon Tetrachloride	.50	U
75-27-4-----	Bromodichloromethane	.50	U
78-87-1-----	1,2-Dichloropropane	.50	U
10061-01-1----	cis-1,3-Dichloropropene	.50	U
142-28-9-----	1,3-Dichloropropane	.50	U
79-01-6-----	Trichloroethene	.50	U
124-48-1-----	Dibromochloromethane	.50	U
79-00-1-----	1,1,2-Trichloroethane	.50	U
71-43-2-----	Benzene	.50	U
10061-02-6----	trans-1,3-Dichloropropene	.50	U
75-25-2-----	Bromoform	.50	U
630-20-6-----	1,1,1,2-Tetrachloroethane	.50	U
127-18-4-----	Tetrachloroethene	.50	U
79-34-1-----	1,1,2,2-Tetrachloroethane	.50	U
108-88-3-----	Toluene	.50	U
106-93-4-----	1,2-Dibromoethane	.50	U
108-90-7-----	Chlorobenzene	.50	U
100-41-4-----	Ethylbenzene	.50	U
1330-29-7-----	Xylene (total)	.50	U

U= Not Detected

1A

VOLATILE ORGANIC ANALYSIS DATA SHEET
EPA 524.2FMETC# 1830.4
Bdg 166
TRIP BLANK

Lab Name: EMSL ANALYTICAL
 Matrix (soil/water): WATER
 Sample wt/vol: 25 mL
 Level (low/med): LOW
 % Moisture: not dec.: NA
 GC Column: DB-624 x 75m ID: 0.53mm
 Soil Extract Volume: NA

Lab Sample ID: 9523164
 Lab File ID: C8316.D
 Date Received: NA
 Date Analyzed: 06/01/95
 Dilution Factor: 1
 Soil Aliquot Volume: NA

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L COMMENT

100-42-1-----	Styrene	.50	U
98-82-8-----	Isopropylbenzene	.50	U
108-86-1-----	Bromobenzene	.50	U
96-18-4-----	1,2,3-Trichloropropane	.50	U
103-65-1-----	n-Propylbenzene	.50	U
95-49-8-----	2-Chlorotoluene	.50	U
106-43-4-----	4-Chlorotoluene	.50	U
108-67-8-----	1,3,5-Trimethylbenzene	.50	U
98-06-6-----	tert-Butylbenzene	.50	U
95-63-6-----	1,2,4-Trimethylbenzene	.50	U
135-98-8-----	sec-Butylbenzene	.50	U
541-73-1-----	1,3-Dichlorobenzene	.50	U
106-46-7-----	1,4-Dichlorobenzene	.50	U
99-87-6-----	4-Isopropyltoluene	.50	U
95-50-1-----	1,2-Dichlorobenzene	.50	U
104-51-6-----	n-Butylbenzene	.50	U
96-12-8-----	1,2-Dibromo-3-chloropropane	.50	U
120-82-1-----	1,2,4-Trichlorobenzene	.50	U
87-68-3-----	Hexachlorobutadiene	.50	U
91-20-3-----	Naphthalene	.50	U
87-61-6-----	1,2,3-Trichlorobenzene	.50	U

COMMENT

U= Not Detected

Attention: Charles Appleby
U.S. Army - Fort Monmouth
SELFM-PW-EV
Building 173
Fort Monmouth NJ 07703

Date of Report: 06/23/95
Project Number: 09508273
Lab ID: 95-0023165
Date Collected: 05/18/95 14:30
Collected By: Client
Date Received: 05/19/95 07:00

Client Project: 931021191016

Client Designation: Field Blank

ORGANIC

Semi-Volatiles

BN by 625 with Library Search

Conc. Unit

see attached ug/l

Volatiles

Volatiles by 524.2 w/ Library Search

see attached ug/l

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Bldg 166

9523165B

Field Blank

015

Lab Name: EMSL ANALYTICAL

Contract: _____

Project No.: _____

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: 9523165B

Sample wt/vol: 1000.0 (g/mL ML)

Lab File ID: B7778.D

Level: (low/med) _____

Date Received: 5/19/95

% Moisture: _____

decanted: (Y/N): N

Date Extracted: 5/25/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 6/2/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
62-75-9	N-nitrosodimethylamine		2	U
111-44-4	bis(2-Chloroethyl)ether		1	U
541-73-1	1,3-Dichlorobenzene		2	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		2	U
108-60-1	bis(2-chloroisopropyl)ether		5	U
621-64-7	N-Nitroso-Di-n-propylamine		2	U
67-72-1	Hexachloroethane		1	U
98-95-3	Nitrobenzene		2	U
78-59-1	Isophorone		1	U
111-91-1	bis(2-Chloroethoxy)methane		3	U
120-82-1	1,2,4-Trichlorobenzene		2	U
91-20-3	Naphthalene		2	U
87-68-3	Hexachlorobutadiene		2	U
77-47-4	Hexachlorocyclopentadiene		12	U
91-58-7	2-Chloronaphthalene		1	U
131-11-3	Dimethylphthalate		1	U
208-96-8	Acenaphthylene		5	U
606-20-2	2,6-Dinitrotoluene		2	U
83-32-9	Acenaphthene		3	U
121-14-2	2,4-Dinitrotoluene		3	U
84-66-2	Diethylphthalate		1	U
86-73-7	Fluorene		3	U
7005-72-3	4-Chlorophenyl-phenylether		3	U
86-30-6	n-Nitrosodiphenylamine		6	U
122-66-7	1,2-Diphenylhydrazine(as azo)		6	U
101-55-3	4-Bromophenyl-phenylether		2	U
118-74-1	Hexachlorobenzene		2	U
85-01-08	Phenanthrene		2	U
120-12-7	Anthracene		2	U
84-74-2	Di-n-butylphthalate		55	
206-44-0	Fluoranthene		1	U
92-87-5	Benzidine		1	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BUg 166

9523165B

Field Blank

Lab Name: EMSL ANALYTICAL

Contract:

Project No.:

Site:

Location:

Group:

Matrix: (soil/water)

WATER

Lab Sample ID: 9523165B

Sample wt/vol:

1000.0

(g/mL ML

Lab File ID: B7778.D

Level: (low/med)

Date Received: 5/19/95

% Moisture:

decanted: (Y/N):

N

Date Extracted: 5/25/95

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 6/2/95

Injection Volume:

1.0

(uL)

Dilution Factor:

1.0

GPC Cleanup: (Y/N)

N

pH:

Concentration Units:

(ug/L or ug/Kg)

ug/L

Q

[illegible]