

United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

***Building 902
Main Post-West Area***

NJDEP UST Registration No. 0081533-144

December 1997

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

BUILDING 902

**MAIN POST-WEST AREA
NJDEP UST REGISTRATION NO. 0081533-144**

DECEMBER 1997

PREPARED FOR:

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

PREPARED BY:

**SMC ENVIRONMENTAL SERVICES GROUP
501 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406**

PROJECT NO. 2429-3080

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Appendix C	Waste Manifest
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Appendix E	Soil Analytical Data Package
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EXECUTIVE SUMMARY

UST Closure

On October 19, 1995, an asphalt-coated steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) Closure Approval Letter dated September 25, 1995 at the Main Post-West area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081533-144 (Fort Monmouth ID No. 902), was located northeast of Building 902. UST No. 0081533-144 was an 1,000 gallon No. 2 fuel oil UST.

Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements for Site Remediation*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the UST was inspected for corrosion holes. No holes were noted in the UST. Groundwater was encountered at 6 feet below ground surface and no sheen was observed. No evidence of potentially contaminated soil or groundwater was observed surrounding the tank. Soil samples contained TPHC concentrations ranging from 167 mg/kg to 639 mg/kg.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with crushed stone and native backfill from the Building 600 area and restored to its original condition.

Conclusions and Recommendations

Based on the post-excavation soil 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.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-144 at Building 902.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-144, was closed at Building 902 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on October 19, 1995. Refer to site location map on Figure 1. This report presents the results of the Department of Public Works' (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP on September 25, 1995. The UST was an asphalt-coated steel 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081533-144 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 onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 0081533-144 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The Closure Approval Letter and signed Site Assessment Summary form for UST No. 0081533-144 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils and groundwater, and reviewing analytical results of collected soil samples, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by SMC Environmental Services Group, to assist the United States Army Directorate of Public Works (DPW) in complying with the 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. October 1990 and revisions dated November 1, 1991).

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

1.2 SITE DESCRIPTION

Building 902 is located in the Main Post-West area of the Fort Monmouth Army Base. UST No. 0081533-144 was located northeast of Building 902 and appurtenant copper piping ran approximately seven (7) feet south from the excavation to Building 902. 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 902. 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.

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

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

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

Building 902 located approximately 500 feet southwest of Oceanport Creek, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 902 is anticipated to be to the northeast.

1.3 HEALTH AND SAFETY

Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas, which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- All underground obstructions (utilities, etc.) were identified 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 the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a manway was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 110 gallons of liquid from the UST and its associated piping were transported by Lionetti Oil Recovery Co. Inc to the Lionetti Oil Recovery Co. Inc. facility, a NJDEP-approved petroleum recycling and disposal company located in Old Bridge, New Jersey. Refer to Appendix C for the waste manifest (NJA-2186555).

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. No evidence of contamination was observed. Soil screening was also performed along the piping run associated with the UST closure. No contamination was noted anywhere along the piping length. Groundwater was encountered at 6.0 feet bgs. No sheen was observed on the groundwater. See Figure 3 for a cross-sectional view of the excavated area.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported to Mazza and Sons, Inc., Metal Recyclers. See Appendix D for a copy of the UST disposal certificate and Appendix F for photographs of the UST. The transportation of the UST was in compliance with all applicable regulations and laws.

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

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

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils 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* (October 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:

- Subsurface Evaluator: Eugene W. Lesinski
Employer: U.S. Army, Fort Monmouth
Phone Number: (908) 532-0989
NJDEP Certification No.: 0014537
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory
Contact Person: Brian K. McKee (currently, Daniel K. Wright)
Phone Number: (908) 532-4359
NJDEP Company Certification No.: 13461
- Hazardous Waste Hauler: Lionetti Oil Recovery Co. Inc
Contact Person: Charles Clayton
Phone Number: (908) 721-0900
NJDEP Hazardous Waste Hauler No.: S6247

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. Soil excavated from around the tank and appurtenant piping, as well as the UST excavation sidewalls and bottom, did not exhibit any evidence of potential contamination. Groundwater was encountered at 6.0 feet bgs and no sheen was observed.

2.3 SOIL SAMPLING

On October 19, 1995, following the removal of the UST, post-excavation soil samples A, B, C, D, E, and F (DUP D) were collected from a total of five (5) locations of the UST excavation. Samples A and B were collected along the excavation floor at a depth of 6.0 feet bgs. Sidewall samples C, D, and F (DUP D) were collected at a depth of 6.0 feet bgs. Sample E was collected along the former piping length of the excavation, which was approximately seven (7) feet in length. The piping sample was collected at a depth of 2.0 feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

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

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 on October 19, 1995 from a total of five (5) locations. All samples were analyzed for TPHC and total solids. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling locations are shown on Figure 4. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on October 19, 1995, from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained levels of TPHC ranging in concentration from 167 to 639 mg/kg.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 902 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.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-144 at Building 902.

TABLES

TABLE 1

SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 902, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 1

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	Analysis Method
A	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1
B	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1
C	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1
D	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1
E	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1
F (DUP D)	10/19/95	10/19/95	Soil	Post-Excavation	TPHC	418.1

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 902, MAIN POST-WEST AREA
FORT MONMOUTH, NEW JERSEY

Page 1 of 1

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Method Used	Sample Quantitation Limit (mg/kg)	Compound of Concern	Result (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/6.0'	1959.1	10/19/95	10/19/95	Total Solid	--	--	89 %	--	--
				TPHC	100	yes	553	10,000	No
B/6.0'	1959.2	10/19/95	10/19/95	Total Solid	--	--	90 %	--	--
				TPHC	100	yes	639	10,000	No
C/6.0'	1959.3	10/19/95	10/19/95	Total Solid	--	--	88 %	--	--
				TPHC	100	yes	271	10,000	No
D/6.0'	1959.4	10/19/95	10/19/95	Total Solid	--	--	87 %	--	--
				TPHC	100	yes	310	10,000	No
E/2.0'	1959.5	10/19/95	10/19/95	Total Solid	--	--	89 %	--	--
				TPHC	100	yes	167	10,000	No
F (DUP D)/6.0'	1959.6	10/19/95	10/19/95	Total Solid	--	--	83 %	--	--
				TPHC	100	yes	296	10,000	No

Note:

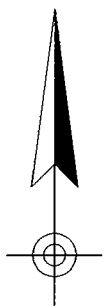
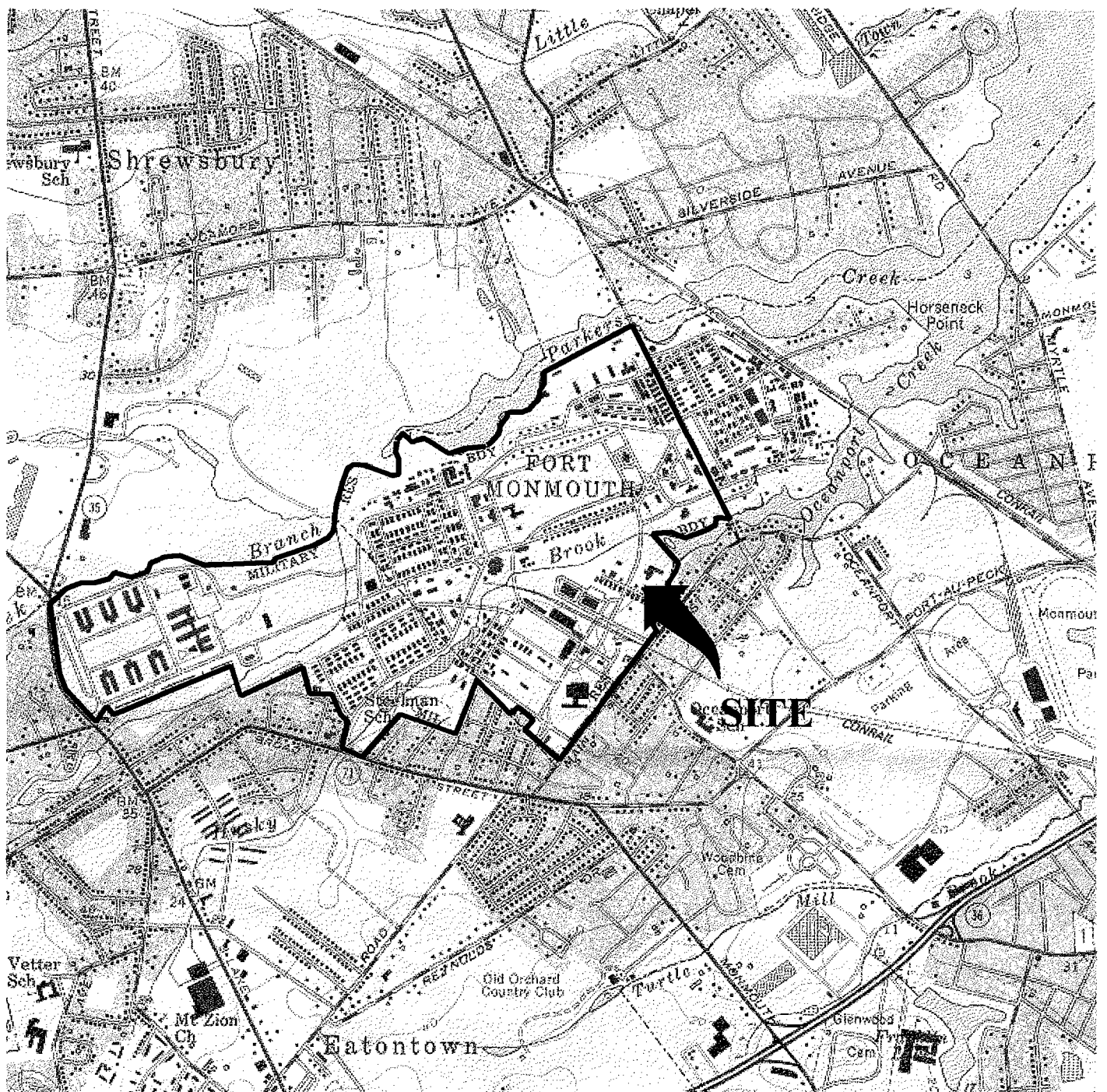
* Total Solid results are expressed as a percentage.

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

-- Not detected above stated sample quantitation limit

TPHC Total Petroleum Hydrocarbons

FIGURES



LONG BRANCH, NJ

40073-C8-TF-024

1954

PHOTOREVISED 1981

DMA 6164 I SE -SERIES V822

New Jersey



Quadrangle Location

FIGURE 1

SITE LOCATION MAP

Building 902
Main Post-West
Fort Monmouth Army Base
Monmouth County, NJ



SMC Environmental Services Group
Engineers, Managers, Scientists, & Planners
Valley Forge, Pennsylvania

Scale:

1"=2,000'

Date:

DEC 1997

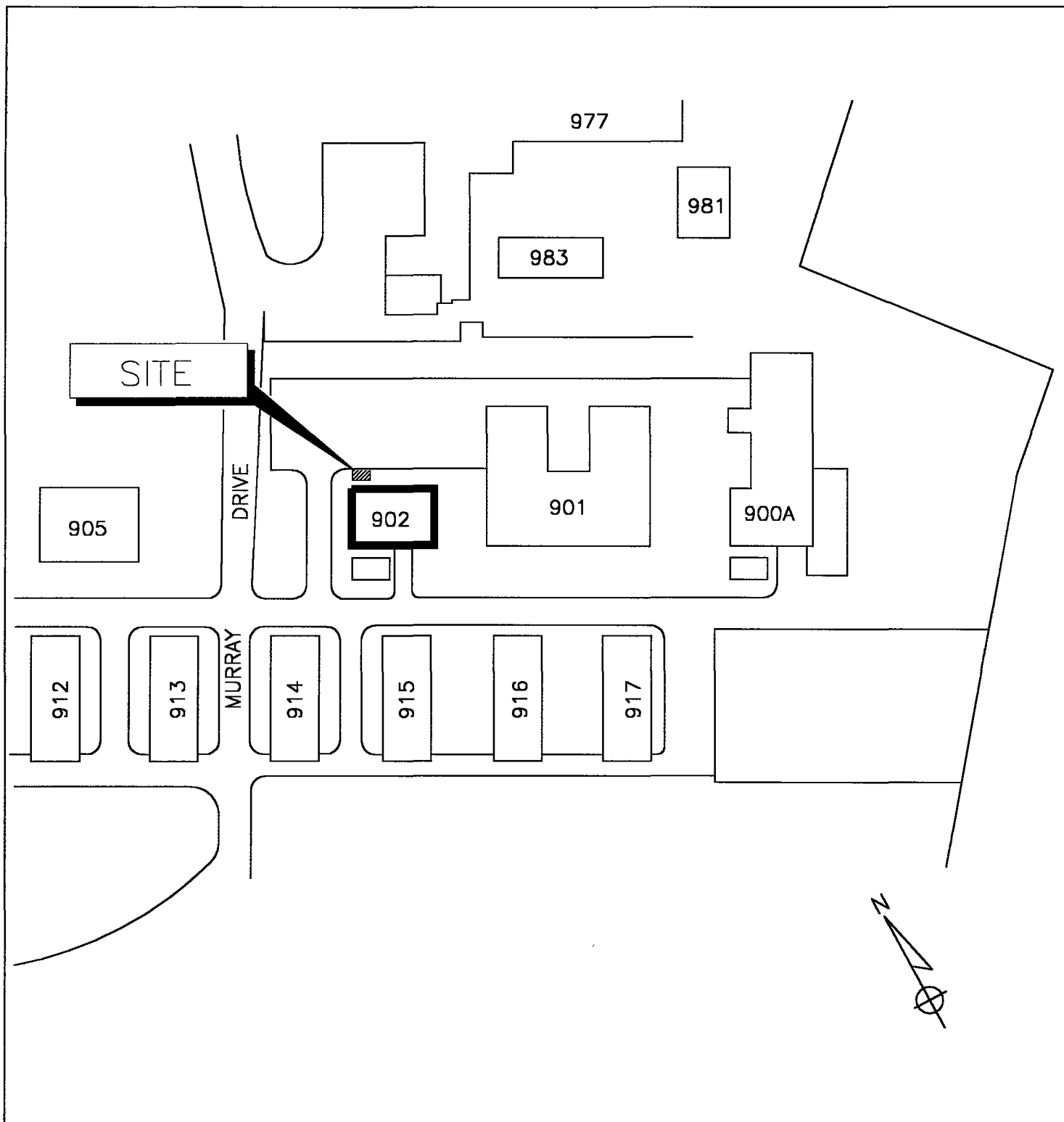


FIGURE 2
SITE MAP
BUILDING 902
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ



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

SCALE: 1"=100'

DATE: DEC. 1997

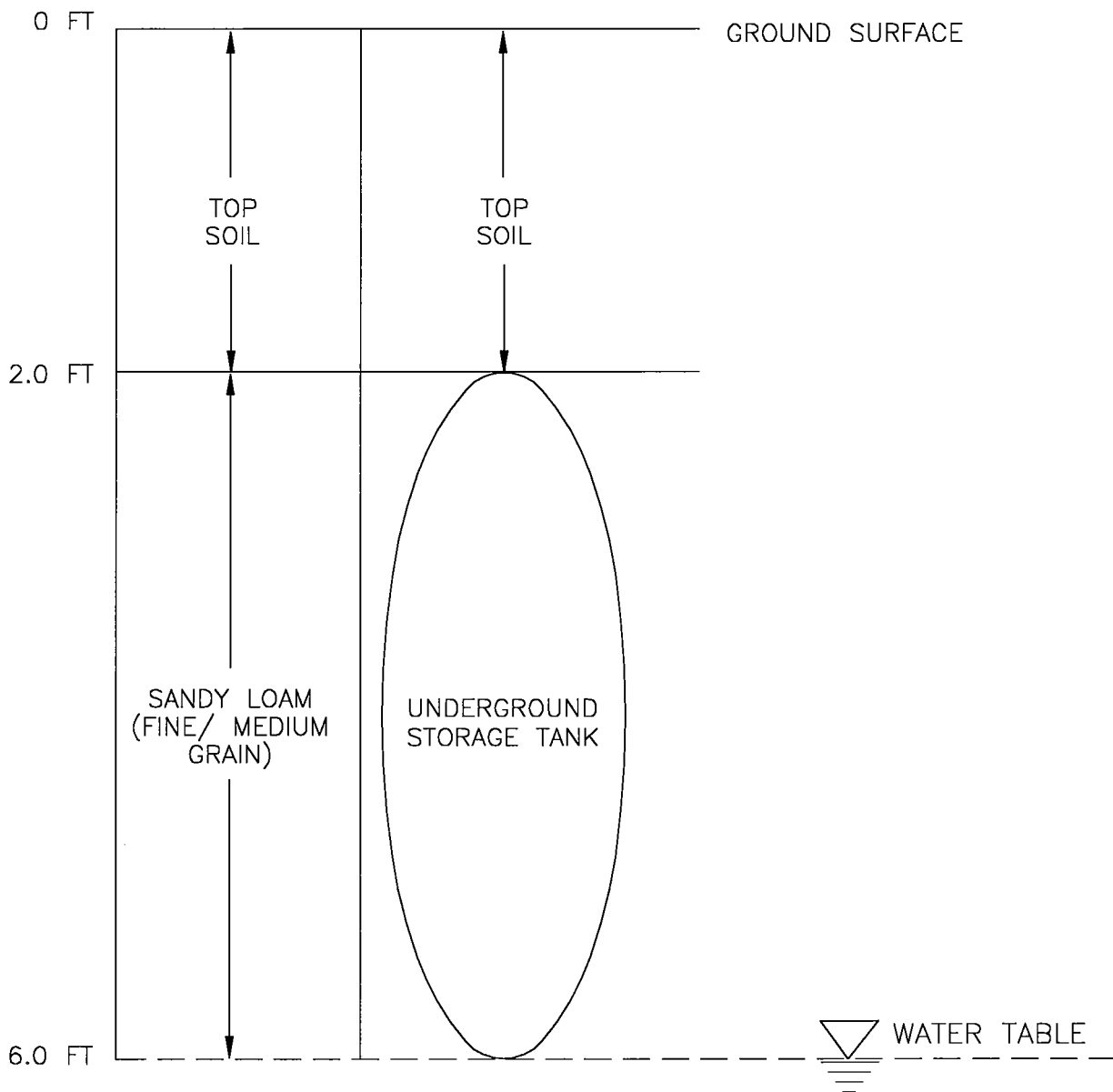


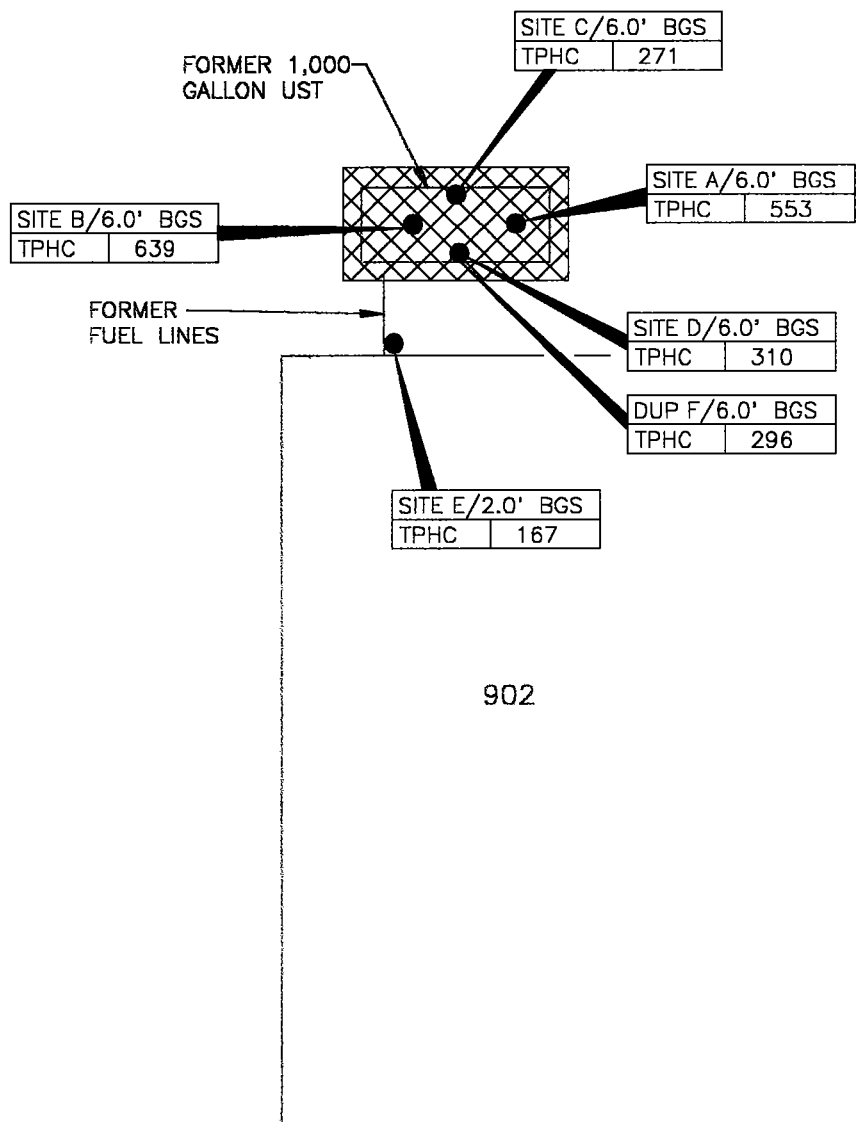
FIGURE 3
CROSS SECTIONAL VIEW
BUILDING 902
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ



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

SCALE: NTS

DATE: OCT. 1997



LEGEND

● SOIL SAMPLE LOCATION
(OCT. 19, 1995)

▨ LIMIT OF EXCAVATION
(OCT. 19, 1995)

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

FIGURE 4
SOIL SAMPLING LOCATION MAP
BUILDING 902
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ



**SMC ENVIRONMENTAL
SERVICES GROUP**

Engineers, Managers, Scientists & Planners
VALLEY FORGE, PA

SCALE: 1"=10'

DATE: DEC. 1997

APPENDIX A

NJDEP-BUST CLOSURE APPROVAL



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
SELFM-EH-EV
Department of the Army
Headquarters CECOM Fort Monmouth
Fort Monmouth, NJ 077703-5000

SEP 25 1995

Dear Mr. Ott:

Re: UST Closure Approval Applications
Fort Monmouth Army Base
Tinton Falls, Monmouth County

The NJDEP has reviewed the Underground Storage Tank Closure Applications listed below and we have determined that the scheduled closures for these Number 2 fuel oil tanks are consistent with NJDEP requirements. This letter shall serve as the closure approval for the following USTs:

AREA	REGISTRATION NO. - SIZE	BLDG NO.	UST NO.	TANK SAMP	LINE SAMP	REMOVAL DATE	REPORT DATE
CW - West	0081515 - 1000	2504	15	4/1	1	9/18/95	1/19/96
CW - East	0090010 - 1000	484	56	4/1	0	10/23/95	2/23/96
CW - West	0081533 - 1000	550	79	4/1	0	10/24/95	2/26/96
CW - West	0081533 - 550	826	134	4/1	2	10/25/95	2/27/96
CW - West	0081533 - 1000	902	144	4/1	0	10/27/95	2/29/96
CW - East	0090010 - 1000	116	9	4/1	1	10/2/95	2/5/96
CW - East	0090010 - 2000	116	10	4/1	0	10/3/95	2/5/96
CW - East	0090010 - 1000	173	19	4/1	3	10/4/95	2/6/96
CW - East	0090010 - 1000	276	23	4/1	2	10/10/95	2/12/96
CW - East	0090010 - 1000	277	24	4/1	0	10/11/95	2/13/96
CW - East	0090010 - 1080	420	36	4/1	2	10/12/95	2/13/96
CW - East	0090010 - 1080	428	42	4/1	3	10/16/95	2/20/96
CW - East	0090010 - 1080	429	43	4/1	3	10/17/95	2/20/96
CW - East	0090010 - 1080	439	48	4/1	2	10/18/95	2/20/96

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

Sincerely,

A handwritten signature in black ink, appearing to read 'IRC', with a stylized flourish extending from the end.

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

cc. Gene Lesinski, FTMMTH

RPCE\BFCM\FTMMTH31.IRC



State of New Jersey
Department of Environmental Protection and Ecology
Division of Responsible Party Site Remediation

CN 028

Trenton, NJ 08625-0029

ATTN: UST Program
(609) 984-3156

For State Use Only

Date Rec'd. _____

Auth. _____

Routing _____

UST NO. _____

STANDARD REPORTING FORM
for reporting activities at an UST facility:

- | | |
|--|---|
| ☐ General Facility Information Changes | ☐ Sale or Transfer |
| ☒ Closure (Abandonment or Removal) | ☐ Substantial Modification |
| ☐ Temporary Closure | ☐ Financial Responsibility |
| ☐ Change in Service | ☐ Address Change Only |

Check ONLY One Type of Activity - Complete Form For That Activity

(More than one tank can be listed per activity)

*** NOTE *** ALL NEW tank installations at existing registered facilities must submit a Registration Questionnaire for the new tanks.

Answer questions 1 through 5 and others as applicable.

1. Company name and address (as it appears on registration questionnaire):

U.S. ARMY - FORT MONMOUTH
DPW - BUILDING 173
FORT MONMOUTH NJ 07703
ATTN: EUGENE W. LESINSKI

2. Facility name and location (if different from above):

3. Contact person for this activity:

GENE LESINSKI
Telephone Number: (908) 532-0989

4. The identification number of the affected tank as it appears in Question Number 12 on the Registration Questionnaire:

BLDG 902

144

5. Registration Number (if known):

UST - 0081533

6. For GENERAL FACILITY INFORMATION changes (address, telephone, contact person, etc. - supply NEW information only):

a. Facility name: _____

b. Facility location: _____

c. Owner's mailing address: _____

_____ NJ _____

d. Block: _____ Lot: _____

e. Contact person (facility operator): _____

f. Contact telephone number: () _____ - _____

g. Other (Specify): _____

(OVER)

7. For CLOSURE (abandonment or removal - check all that apply):

a. ☐ Abandonment Date: _____/_____/_____ Case No: _____

Attach the necessary implementation schedule (3 copies) and all documentation needed for abandonment per N.J.A.C. 7:14B-9.1 (d).

b. ☒ Removal Date: 10/19/95 Case No. _____

Attach the necessary implementation schedule (3 copies).

8. For CHANGES IN HAZARDOUS SUBSTANCES STORED (check all that apply):

a. ☐ Temporary Closure (12 month maximum time - see N.J.A.C. 7:14B-9.1(b)). Remove all hazardous substances; leave tank in place.

b. ☐ Change in service from a regulated substance to a non-regulated substance. Tank must be cleaned and site assessment performed per N.J.A.C. 7:14B-9.1(e).

c. ☐ Changes in service from one regulated hazardous substance to another regulated hazardous substance.

Tank No. _____ Old _____ New _____

Tank No. _____ Old _____ New _____

Tank No. _____ Old _____ New _____

(Attach additional sheets if more space is needed)

9. For TRANSFER OF OWNERSHIP: Effective Date: _____/_____/_____

a. New Owner (operator) _____

b. New Facility Name _____

_____ NJ _____

County _____

c. Closing Attorney _____ Tele: (_____) _____ - _____

10. For SUBSTANTIAL MODIFICATIONS (to include any retrofitted activity - e.g. the addition of spill/overfill protection, monitoring systems, cathodic protection, etc.):

a. Type of Modification _____ Date: _____/_____/_____

b. * NOTE * Substantial modifications require a permit under N.J.A.C. 7:14B-10.

11. For changes in FINANCIAL RESPONSIBILITY to (check appropriate changes and attach copies of new information).

a. Policy Type: ☐

d. Company/Carrier: ☐

b. Policy Number: ☐

e. Expiration Date: ☐

c. Other: ☐

(Specify)

NOTE: ALL appropriate and applicable permits, licenses and certificates required by the above activity(ies) from any local, state and/or federal agencies must be obtained separately from this notification.

CERTIFICATION

This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (N.J.A.C. 7:14B-23 (a) 1).

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

Signature: James Ott

Name (print or type): JAMES OTT

Title: DIRECTOR - DEPT OF PUBLIC WORKS Date: 10/19/95

APPENDIX B

SITE ASSESSMENT SUMMARY

UST-014
2/91

FOR STATE USE ONLY
UST#
Date Rec'd
TMS #
Staff

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Responsible Party Site Remediation
CN 029

TRENTON, N.J. 08625-0028
Tel. # 609-984-3156
Fax.# 609-292-5604

Scott A. Weiner
Commisioner

Karl J. Delaney
Director

UNDERGROUND STORAGE TANK
SITE ASSESSMENT SUMMARY

*Under the provisions of the Underground Storage
of Hazardous Substances Act
in accordance with N.J.A.C. 7:14B*

This Summary form shall be used by all owners and operators of Underground Storage Tank Systems (USTS) who have either reported a release and are subject to the site assessment requirements of N.J.A.C. 7:14B-8.2 or who have closed USTS pursuant to N.J.A.C. 7:14B-9.1 et seq. and are subject to the site assessment requirements of N.J.A.C. 7:14B-9.2 and 9.3.

INSTRUCTIONS:

- ◆ Please print legibly or type.
- ◆ Fill in all applicable blanks. This form will require various attachments in order to complete the Summary. The technical guidance document, Interim Closure Requirements for UST's, explains the regulatory (and technical) requirements for closure and the Scope of Work, Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems explains the regulatory (and technical) requirements for corrective action.
- ◆ Return one original of the form and all required attachments to the above address.
- ◆ Attach a scaled site diagram of the subject facility which shows the information specified in Item IV B of this form.
- ◆ Explain any "No" or "N/A" response on a separate sheet.

Date of Submission: _____

Building No. 902 UST No. 0081533-144

_____0192477-1

Facility Registration #

1. FACILITY NAME AND ADDRESS:

U.S. Army Fort Monmouth New Jersey

Directorate of Engineering and Housing Building 167

Fort Monmouth New Jersey 07703 County Monmouth

Telephone No. 908-532-6224

OWNER'S NAME AND ADDRESS, if different from above.

Telephone No. _____

II. DISCHARGE REPORTING REQUIREMENTS

- A. Was contamination found ? ☐ Yes ☒ No If Yes, Case No. _____
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- B. The substance(s) discharged was (were) N/A
- C. Have any vapor hazards been mitigated? ☐ Yes ☐ No ☒ N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure approval No. Sept. 25, 1995 letter

The site assessment requirements associated with tank decommissioning are explained in the Technical Guidance Document, Interim Closure Requirements for UST's, Section V. A.-D. Attach complete documentation of the methods used and the results obtained for each of the steps of tank decommissioning used. Please include a site map which shows the locations of all samples and borings, the location of all tanks and piping runs at the facility at the beginning of the tank closure operation and annotated to differentiate the status of all tanks and piping (e.g., removed, abandoned, temporarily closed, etc.). The same site map can be used to document other parts of the site assessment requirements, if it is properly and legibly annotated.

IV. SITE ASSESSMENT REQUIREMENTS

A. Excavated Soil

Any evidence of contamination in excavated soil will require that the soil be classified as either Hazardous Waste or Non-Hazardous Waste. Please include all required documentation of compliance with the requirements for handling contaminated excavated soil (if any was present) as explained in the technical guidance documents for closure and corrective action. Describe amount of soil removed, its classification and disposal location.

B. Scaled Site Diagrams

1. Scaled site diagrams must be attached which include the following information:

- North arrow and scale
- The locations of the ground water monitoring wells
- Location and depth of each soil sample and boring
- All major surface and subsurface structures and utilities
- Approximate property boundaries
- All existing or closed underground storage tank systems, including appurtenant piping
- A cross-sectional view indicating depth of tank, stratigraphy and location of water table
- Locations of surface water bodies

C. Soil samples and borings (check appropriate answer)

- Were soil samples taken from the excavation as prescribed? ☒ Yes ☐ No ☐ N/A
- Were soil borings taken at the tank system closure site as prescribed? ☐ Yes ☐ No ☒ N/A
- Attach the analytical results in tabular form and include the following information about each sample
 - Customer sample number (keyed to the site map)
 - The depth of the soil sample
 - Soil boring logs
 - Method detection limit of the method used
 - QA/QC Information as required

D. Ground Water Monitoring

1. Number of ground water monitoring wells installed 0
2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:
 - a. Site diagram number for each well installed
 - b. Depth of ground water surface
 - c. Depth of screened interval
 - d. Method detection limit of the method used
 - e. Well logs
 - f. Well permit numbers
 - g. QA/QC Information as required

V. SOIL CONTAMINATION

- A. Was soil contamination found? Yes X No
If "Yes", please answer Question B-E
If "No", please answer Question B
- B. The highest soil contamination still remaining in the ground has been determined to be:
 1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
 2. N/A ppb total B/N, N/A ppb total non-targeted B/N
 3. 639 ppm TPHC
 4. N/A ppb N/A (for non-petroleum substance)
- C. Remediation of free product contaminated soils
 1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface. Yes No
 2. Free product contaminated soils are suspected to exist below the water table. Yes No
 3. Free product contaminated soils are suspected to exist off the property boundaries. Yes No
- D. Was the vertical and horizontal extent of contamination determined? Yes No N/A
- E. Does soil contamination intersect ground water? Yes No N/A

VI. GROUND WATER CONTAMINATION

- A. Was ground water contamination found? Yes X No
If "Yes", please answer Questions B-G.
If "No", please answer only Question B.
- B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be: N/A
 1. ppb total BTEX, ppb total non-targeted VOC
 2. ppb total B/N, ppb total non-targeted B/N
 3. ppb total MTBE, ppb total TBA
 4. ppb (for non-petroleum substance)
 5. greatest thickness of separate phase product found
 6. separate phase product has been delineated Yes No N/A

C. Results (s) of well search

1. A well search (including a review of manual well records) indicates that private, municipal or commercial wells do exist within the distances specified in the Scope of Work. ____ Yes ____ No ____ N/A
2. The number of these wells identified is _____.

D. Proximity of wells and contaminant plume

1. The shallowest depth of any well noted in the well search which may be in the horizontal or vertical potential path(s) of the contaminant plume(s) is _____ feet below grade (consideration has been given for the effects of pumping, subsurface structures, etc. on the direction(s) of contaminant migration). This well is _____ feet from the source and its screening begins at a depth of _____ feet.
2. The shallowest depth to the top of the well screen for any well in the potential path of the plume(s) (as described in D1 above above) is _____ feet below grade. This well is located _____ feet from the source.
3. The closest horizontal distance of a private, commercial, or municipal well in the potential path of the plume (as determined in D1) is _____ feet from the source. This well is _____ feet deep and screening begins at a depth of _____ feet.

E. A plan for separate phase product recovery has been included. ____ Yes ____ No ____ N/A

F. A ground water contour map has been submitted which includes the ground water elevations for each well.
____ Yes ____ No ____ N/A

G. Delineation of contamination

1. The ground water contaminants have been delineated to MCLs or lower values at the property boundaries.
____ Yes ____ No
2. The plume is suspected to continue off the property at concentrations greater than MCLs.
____ Yes ____ No
3. Off property access (circle one): is being sought has been approved has been denied

VII. SITE ASSESSMENT CERTIFICATION [preparer of site assessment plan - N.J.A.C. 7:14B-8.3(b) & 9.5(a)3]

The person signing this certification as the "Qualified Ground Water Consultant" (as defined in N.J.A.C. 7:14B-1.6) responsible for the design and implementation of the site assessment plan as specified in N.J.A.C. 7:14B-8.3(a) & 9.2(b)2, must supply the name of the certifying organization and certification number.

"I certify under penalty of law that the information provided in this document is true, accurate, and complete and was obtained by procedures in compliance with N.J.A.C. 7:14B-8 and 9. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) Eugene Lesinski

SIGNATURE SEE ATTACHED SUB-SURFACE EVALUATOR LOG

COMPANY NAME U.S. Army Fort Monmouth

DATE _____

(Preparer of Site Assessment Plan)

CERTIFYING
ORGANIZATION NJDEP

CERTIFYING
NUMBER 0014537

VIII. TANK DECOMMISSIONING CERTIFICATION [person performing tank decommissioning portion of closure plan - N.J.A.C. 7:14B-9.5(a)4]

"I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 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) SAME AS SITE ASSESSMENT SIGNATURE _____

COMPANY NAME _____ DATE _____
(Performer of Tank Decommissioning)

IX. CERTIFICATIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITIES

- A. The following certification shall be signed by the highest ranking individual with overall responsibility for that facility [N.J.A.C. 7:14B-2.3(c)1I].

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

NAME (Print or Type) James Ott SIGNATURE _____

COMPANY NAME U.S. Army Fort Monmouth DATE _____

- B. The following certification shall be signed as follows [according to the requirements of N.J.A.C. 7:14B-2.3(C)2I]:

1. For a corporation, by a principal executive officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, Federal or other public agency by either the principal executive officer or ranking elected official.
4. In cases where the highest ranking corporate partnership, governmental officer or official at the facility as required in A above is the same person as the official required to certify in B, only the certification in A need to be made. In all other cases, the certifications of A and B shall be made.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) _____ SIGNATURE _____

COMPANY NAME _____ DATE _____

U ARMY, SELEM-PW-EV
DAILY UST SUBSURFACE REMOVAL LOG

BLDG.#: 902 REG.#: 0081533-144 CLOSURE#: DEP LTR 9-25-95
 DATE: 10-19-95 TOA: 0800 TOD: 1100
 GOV. SSE: LESINSKI NJDEP CERT.#: 0014537
 REMOVAL CONTRACTOR: SAI Inc.
 CLOSURE SUPERVISOR: LARRY GREEN NJDEP CERT.#: 0
 WEATHER: SUNNY - 62°F

ACTIVITY	YES / NO
THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	Y
THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	Y
ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	Y
A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR	N/A
THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED	Y
A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE# _____	N
PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	Y
GROUNDWATER WAS ENCOUNTERED AT <u>6</u> FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	Y
IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	Y
IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	Y
ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	Y
ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 <u>et seq.</u>	Y
ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	N/A
THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	Y
ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	N
THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH) SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS (IN YDS ³), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)	N

CHECK ALL BOXES. LEAVE NO BLANKS

I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment.

SIGNATURE: _____ DATE: 10-19-95

APPENDIX C
WASTE MANIFEST



State of New Jersey
Department of Environmental Protection
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421



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

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ321002059755360	Manifest Document No. 6	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U.S. ARMY COMMUNICATIONS ELECTRONICS COMMAND MAIN POST - C/O JAMES SHIRGHIO BLDG 173 ATTN: SELF-PW-EV FORT MONMOUTH, NJ 07703				A. State Manifest Document Number NJA 2186555		
4. Generator's Phone () 908 721-0900				B. State Generator's ID (Gen. Site Address) SAME		
5. Transporter 1 Company Name LIONETTI OIL RECOVERY CO., INC. NJ D 084044064				C. State Trans. ID-NJDEPE 908 721-0900		
7. Transporter 2 Company Name				D. Transporter's Phone ()		
9. Designated Facility Name and Site Address LIONETTI OIL RECOVERY CO., INC./DBA LORCO PETROLEUM SVCS. RUNYON & CHEESECAKE ROADS OLD BRIDGE NJ 08857				E. State Trans. ID-NJDEPE		
10. US EPA ID Number NJ D 084044064				F. Transporter's Phone ()		
11. US DOT Description (including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) HM				G. State Facility's ID		
				H. Facility's Phone		
				I. Waste No.		
a. X PETROLEUM OIL (PETROLEUM OIL) COMBUSTIBLE LIQUID UN 1270 PG III				001 TTX1106 X722		
b. X PETROLEUM OIL (PETROLEUM OIL) COMBUSTIBLE LIQUID UN 1270 PG III				001 TTX1106 X722		
c.						
d.						
J. Additional Descriptions for Materials Listed Above T, L PETROLEUM OIL 99% WATER 1%				K. Handling Codes for Wastes Listed Above T04-FILTRATION		
a. T, L PETROLEUM OIL 99% WATER 1%				c.		
b.				d.		
15. NOT EPA REGULATED, REGULATED AS HAZARDOUS WASTE IN NEW JERSEY 24 HOUR EMERGENCY RESPONSE #(908)721-0900 DECAL# 73630 ERG# 27 DEXSIL TEST KIT RESULTS N/A				11A) 0081533-144/902 11B) 0081533-134/826		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name EUGENE W LESINSKI				Signature <i>Eugene W Lesinski</i>		Month Day Year 11/01/89
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Chuck Clayton				Signature <i>Chuck Clayton</i>		Month Day Year 11/01/89
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name Signature Month Day Year						

NJA 2186555



BLDG 826/902

GENERATOR CERTIFICATION

I hereby certify to the best of my knowledge that the waste described on Hazardous Waste Manifest No.

NJA2196555 dated 10/18/95,

is generated by one or more of the following processes and does not contain more than 2 ppm polychlorinated biphenyls (P.C.B.'s) and does not display any characteristic or contain any hazardous constituents other than for which waste oils are listed in New Jersey.

X721: Waste automotive crankcase and lubricating oils from automotive service and gasoline stations, truck terminals, and garages.

☒ X722: Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel oil tanks.

X723: Waste oil and bottom sludge generated by gasoline stations when gasoline and oil tanks are tested, cleaned or replaced.

X724: Waste petroleum oil generated when tank trucks or other vehicles or mobile vessels are cleaned, including, but not limited to, oil ballast water from product transport units of boats, barges, ships or other vessels.

X725: Oil spill cleanup residue which: A. is contaminated beyond saturation; or B. the generator fails to demonstrate that the spill material was not one of the listed hazardous waste oils.

X726: The following used and unused waste oils: metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils.

X728: Bottom sludge generated from the processing, blending, and treatment of waste oil in waste oil processing facilities.

I am duly authorized to sign said certification.

Generator FORT Monmouth

Generator's EPA ID No. NJ3210020597

Address FORT Monmouth N.J. 07703

Print Name EUGENE W LESINSKI Signature Eugene Lesinski

Title ENV PROTECTION SPECIALIST

Date 10/18/95



RD1 Box 5A
Old Bridge, N.J. 08857
(908) 721-0900
Fax (908) 721-0231

BLDG #826/902

STANDARD
COLLECTION
ORDER FORM

113371

61 GALS 114 GALS

GENERATOR/LOCATION

OFFICE USE ONLY

BILL TO (IF DIFFERENT FROM LOCATION)

NAME

FORT MONMOUTH

NAME

E. SYSTEMS

INFORMATION/ATTENTION LINE

ACCOUNT APPROVAL CODE

INFORMATION/ATTENTION LINE

ACCOUNT APPROVAL CODE

DELIVERY ADDRESS

DELIVERY ADDRESS

CITY

STATE

ZIP

CITY

STATE

ZIP

PHONE NUMBER

PURCHASE ORDER NUMBER

PHONE NUMBER

PURCHASE ORDER NUMBER

USA EPA ID NO. (IF APPLICABLE)

STATE ID NO.

MANIFEST
NUMBER

SHIPPING INFORMATION

This is to certify that the below named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NO.	TYPE	QTY.	UNIT	US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	SALES REPRESENTATIVE

SERVICE SECTION

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT OF MEASURE	PRICE	TAX	LINE TOTAL
40500	USED OIL REMOVAL						
40501	OIL WATER DISPOSAL						
40502	SLUDGE DISPOSAL	X722	171	GALLONS			
41000	NON HAZARDOUS DISPOSAL						
41001	RCRA WASTE DISPOSAL						
41500	VAC TRUCK & OPERATOR						
41501	DRUM DISPOSAL						
41502	SEPARATOR CLEANING						
41503	QAQC ANALYTICAL TESTING						
41504	TANK CLEANING	X					
41505	CONFINED SPACE ENTRY						
42000	MANIFEST PROCESSING FEE						
42001	DEXSIL TEST KIT						

Pumped + cleaned 11,000 GAL Tank + 1,550 Fuel oil Tank.

TOTAL

CHARGE MY ACCOUNT FOR THIS TRANSACTION
UNLESS OTHERWISE INDICATED IN THE
PAYMENT SECTION.

INVOICES REFLECTING CHARGES TO CUSTOMER

ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF 1 1/2% PER MONTH (18%
PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT
ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, LORCO SHALL BE
ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE
ATTORNEY'S FEES.

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED
LORCO HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE
BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED
BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE
UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261,
GENERATOR AGREES TO INDEMNIFY AND HOLD LORCO HARMLESS FOR ANY
DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY
RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR.

Generator certifies that the waste is X722
In accordance the N.J.A.C. 7:26-12.1 et seq, LORCO has the required
permits to accept the above described waste.

Print Name

Title

Signature

Date

GENERATOR/CUSTOMER

SMALL QUANTITY GENERATOR CERTIFICATION

I certify that this generator
generates less than 100
kilograms (approximately
220 pounds or 30
gallons) of hazardous
waste per month, as
defined at 40 C.F.R. 261,
and does not accumulate
more than 1,000 kilograms
of such waste during the
month.

N/A

GENERATOR'S SIGNATURE

LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL CDT
TEST RESULTS

N/A PPM

PAYMENT RECEIVED SECTION

CASH ☐

CHECK NUMBER

TOTAL RECEIVED

PAYMENT MADE SECTION

PAYMENT METHOD

PAYMENT AMOUNT

CASH ☐ CHECK ☐

RECEIVED BY:

CUSTOMER'S SIGNATURE

In accordance with 40 CFR 266 § 43(5) LORCO has notified
the US EPA of its location and used oil management activities.

Print Name

Signature

Chuck Clayton

Chuck Clayton

10/18/95

LORCO REPRESENTATIVE

CUSTOMER

APPENDIX D

UST DISPOSAL CERTIFICATE

MAZZA & SONS, INC.

Metal Recyclers
Auto and Truck
3230 Shafto Rd.
Tinton Falls, NJ
(908) 922-9292

NO. 291

DATE 1400095-

Customer's Name E-SYSTEMS

Address _____

Make of
Autos

386

Tires

Tank

Price:

14440 LB

13060

1380

BLOG 902

0081533-144

Weight

Price

☒ Cast Iron

Steel

48.30

Lt. Iron

Copper #1

Copper #2

Lt. Copper

Brass

Alum Clean

Lead

Stainless

Radiators

Battery

TOTAL AMOUNT:

Weigher

BL

Customer

John B...

APPENDIX E

SOIL ANALYTICAL DATA PACKAGE

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

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

Lab. ID #:1959.1-.6
Sample Rec'd: 10/18/95
Analysis Start: 10/18/95
Analysis Comp: 10/19/95

Analysis: 418.1 (TPH)
Matrix: Soil
Analyst: S. Hubbard
Ext. Meth: 3540A

NJDEPE UST Reg.#: 0081533-144
Closure #:
DICAR #:
Location #: Bldg. 902

Lab ID.	Description	%Solid	Result	MDL
1959.1	Site A E. Bottom 6' OVA=ND	89	553.	100
1959.2	Site B W. Bottom 6' OVA=ND	90	639.	100
1959.3	Site C N. Sidewall 6' OVA=ND	88	271.	100
1959.4	Site D S. Sidewall 6' OVA=ND	87	310.	100
1959.5	Site E Piping @ 2' OVA=ND	89	167.	100
1959.6	Site F Duplicate OVA=ND	83	296.	100
M. Bl.	Method Blank	100	ND	100

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

* = Silica Gel Added, NA = Not Applicable

1958.5S=137%,1958.5SD=139%,RPD= 1.2%,1958.5Dup=108%

QC Limits: Recovery = 60% to 140% and RPD = 14.9% (2 Std. Dev.)



Brian K. McKee
Laboratory Director

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

Lab. ID #: 1959.1-6
Sample Rec'd: 10/18/95
Analysis Start: 10/20/95
Analysis Comp: 10/21/95

[illegible]

Ben McK

Brian K. McKee
Laboratory Director

S I RV-AIR, INC. A I E-SYSTEMS Co.

P.O. #: PWS-07

Chain of Custody

Project #:		Sampler: K. GREEN		Date / Time: 10-19-95 0914		Analysis Parameters		Start: 0910	
Customer: G. LESINSKI SELF-M-PW-EV		Site Name: BLDG # - 902 UST # - 008/533-144						Finish: 0920	
Phone: 908-532-0989								Preservation Method	
Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	TPHC	TO SOLIDS	MUNSEL	OVA	Remarks
1959.1	10-19-95 0910	SITEA - E Bottom @ 6'	SOIL	1	X	X	X	ND	SAMPLES KEPT
2	0912	B - W Bottom @ 6'			X	X	X	ND	4°C
3	0914	C - N SW @ 6'			X	X	X	ND	
4	0916	D - SSW @ 6'			X	X	X	ND	
5	0918	E - PIPING @ 2'			X	X	X	ND	
6	0920	VF - DUP			X	X	X	ND	
					OVA CALIBRATED TO 95 PPM METER READING W/ 95 PPM CH ₄ & O ₂ AIR at 0900 HRS ON				
Relinquished By (signature)		Date / Time		Received By (signature)		Shipped By: 10-19-95 W/ K. GREEN			
Relinquished By (signature)		Date / Time		Received for Lab by (signature):		Date / Time		Serial #	
		10/19/95 11:00		Sarah J. Newbard		10/19/95 11:20		A52114	
Note: A drawing depicting sample location should be attached or drawn on the reverse side of this chain of custody.									

SRI-ENV COC Form 01

Page 1 of 1 Pages

Rev. A Date: 02 Apr 93

Environmental Laboratory

No Site Map Attached - Separate Sampling Tools Used

```

=====
Sample Name: BLANK                               Date: 10/23/1995 10:05:34
Data File  : C:\DX\DATA\10219511.D01
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 1              Detector: OTHER
Analyst    : BKM                               Column: IR
=====

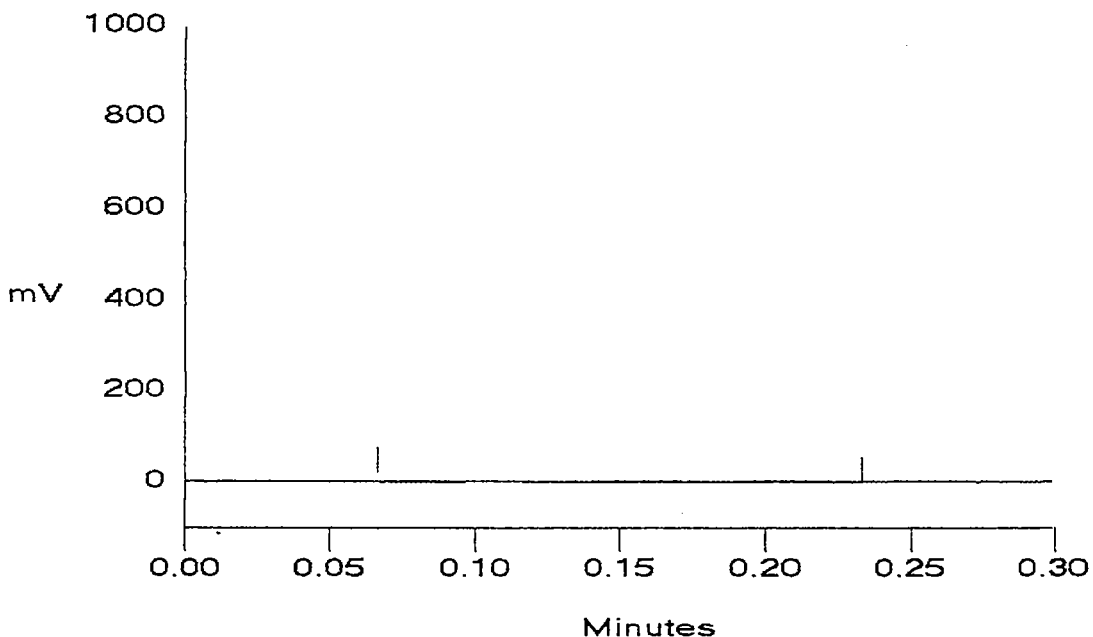
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	900	50Hz	0.00	0.30		30000

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppM	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 10219511.D01 Sample: BLANK



```

=====
Sample Name: 1959.1 B902 A                      Date: 10/23/1995 13:19:06
Data File  : C:\DX\DATA\10219511.D12
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 12             Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

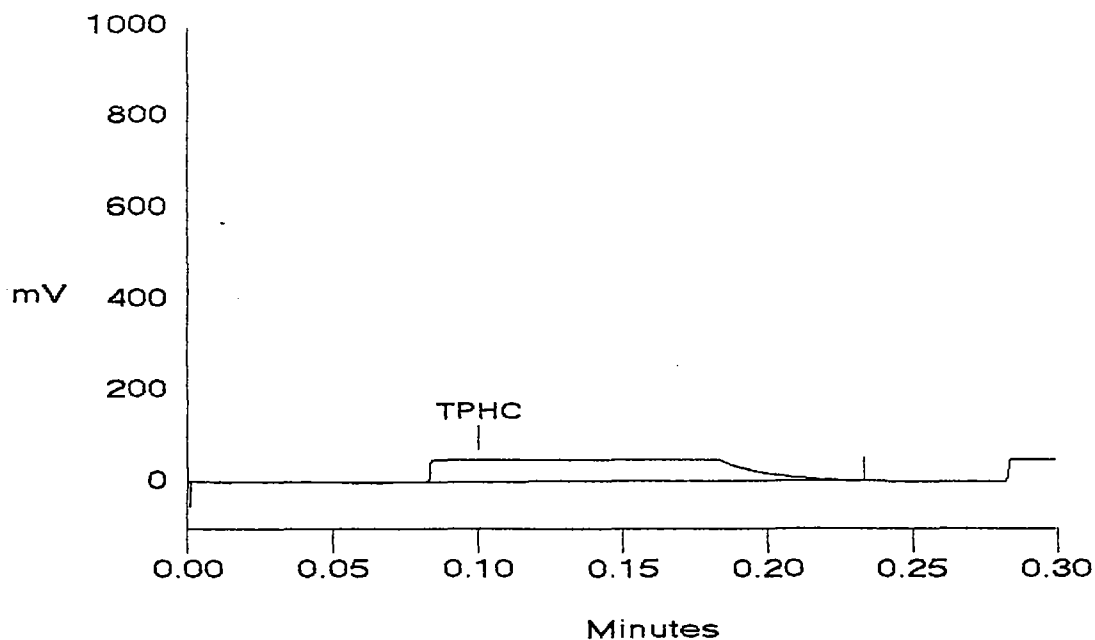
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30      30000

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.10	TPHC	32.836	49365	330602	1	0.00
Totals			32.836	49365	330602		

File: 10219511.D12 Sample: 1959.1 B902 A



```

=====
Sample Name: 1959.2 B902 B                      Date: 10/23/1995 13:24:01
Data File  : C:\DX\DATA\10219511.D13
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 13             Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

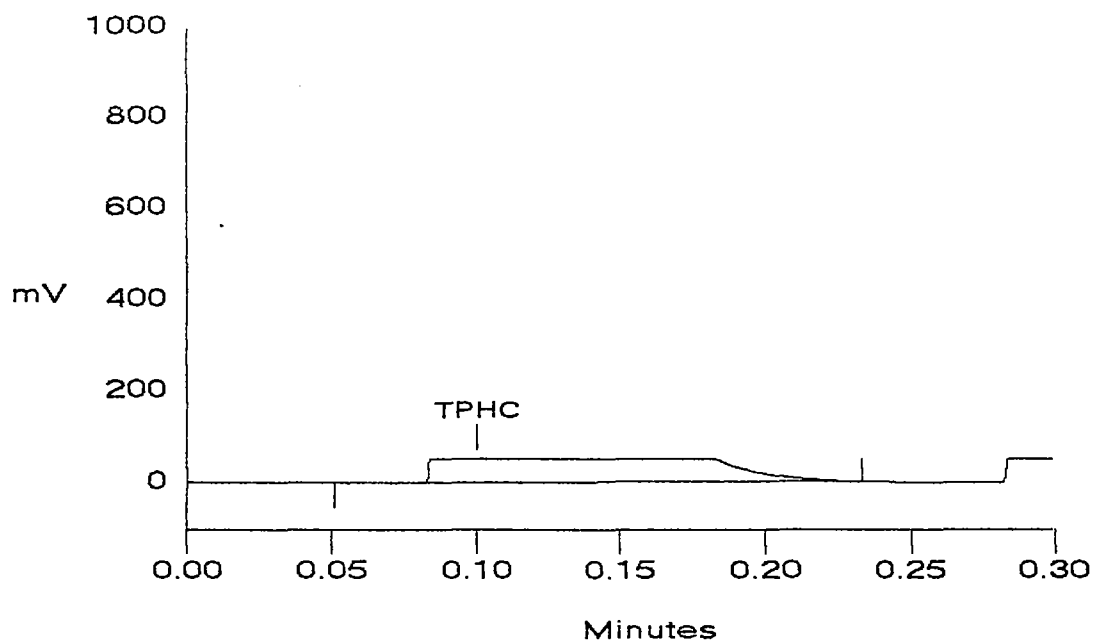
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30    30000

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.10	TPHC	34.130	51310	345825	1	0.00
Totals			34.130	51310	345825		

File: 10219511.D13 Sample: 1959.2 B902 B



```

=====
| Sample Name: 1959.3 B902 C                               Date: 10/23/1995 13:27:15 |
| Data File   : C:\DX\DATA\10219511.D14                   |
| Method      : c:\dx\method\tph.met                       |
| ACI Address: 1 System: 1 Inject#: 14                     |
| Analyst     : BKM                                         Column: IR       |
| Detector: OTHER                                           |
=====

```

```

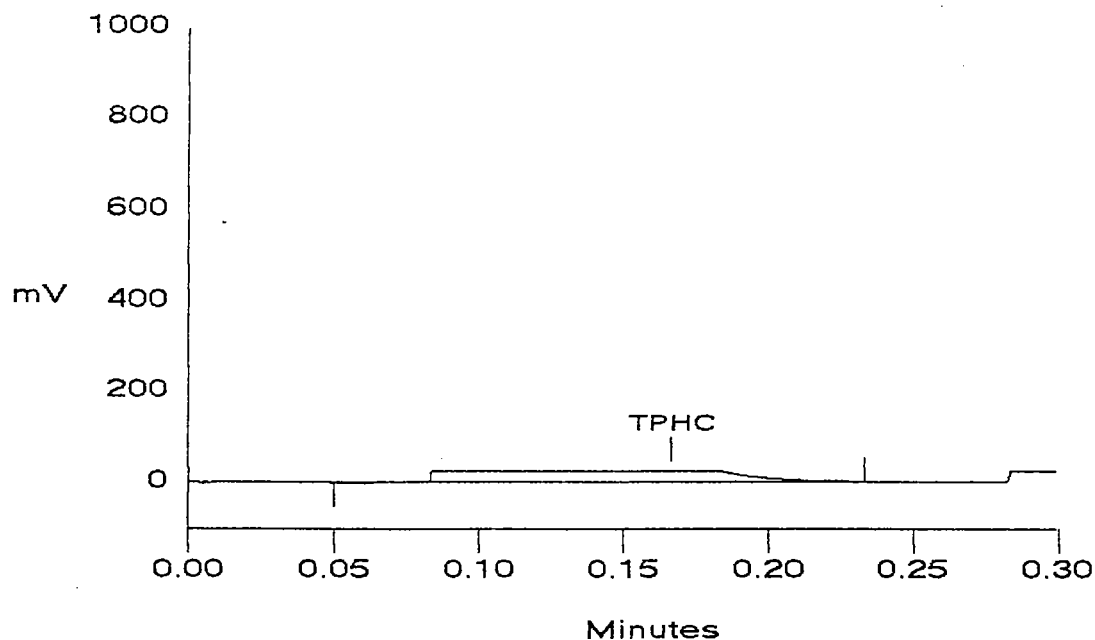
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    900 50Hz  0.00  0.30      30000
-----

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.17	TPHC	15.912	23922	164204	1	0.00
Totals			15.912	23922	164204		

File: 10219511.D14 Sample: 1959.3 B902 C



```

=====
Sample Name: 1959.4 B902 D                      Date: 10/23/1995 13:31:46
Data File  : C:\DX\DATA\10219511.D15
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 15             Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

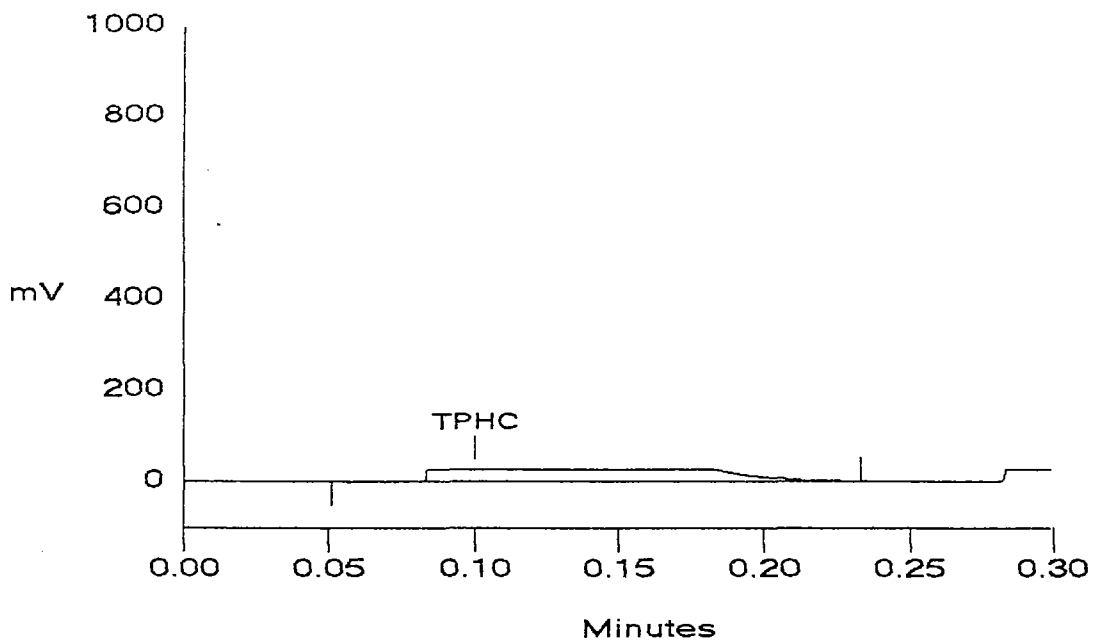
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30    30000
-----

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.10	TPHC	17.940	26971	182612	1	0.00
Totals			17.940	26971	182612		

File: 10219511.D15 Sample: 1959.4 B902 D




```

=====
Sample Name: 1959.5 B902 E                      Date: 10/23/1995 13:34:51
Data File  : C:\DX\DATA\10219511.D16
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 16             Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

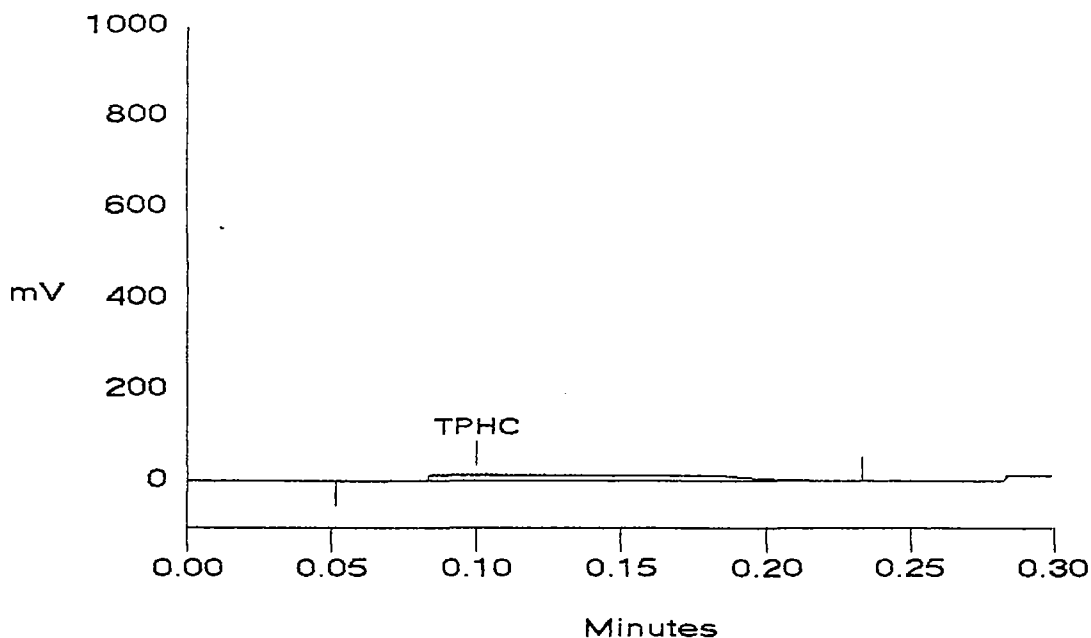
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30    30000
-----

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.10	TPHC	8.918	13408	88262	1	0.00
Totals			8.918	13408	88262		

File: 10219511.D16 Sample: 1959.5 B902 E



```

=====
Sample Name: 1959.6 B902 F                      Date: 10/23/1995 13:37:58
Data File  : C:\DX\DATA\10219511.D17
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 17             Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

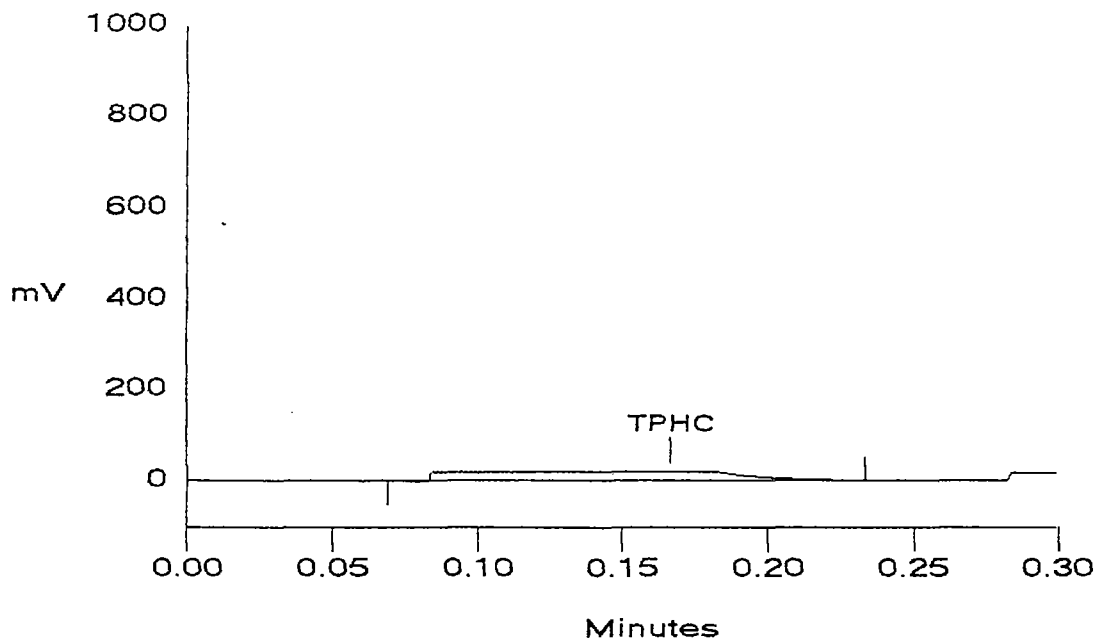
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30    30000
-----

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.17	TPHC	12.224	18377	127664	1	0.00
Totals			12.224	18377	127664		

File: 10219511.D17 Sample: 1959.6 B902 F



```

=====
Sample Name: CALCK.                               Date: 10/23/1995 13:42:12
Data File  : C:\DX\DATA\10219511.D18
Method     : c:\dx\method\tph.met
ACI Address: 1 System: 1 Inject#: 18              Detector: OTHER
Analyst    : BKM                               Column: IR
=====

```

```

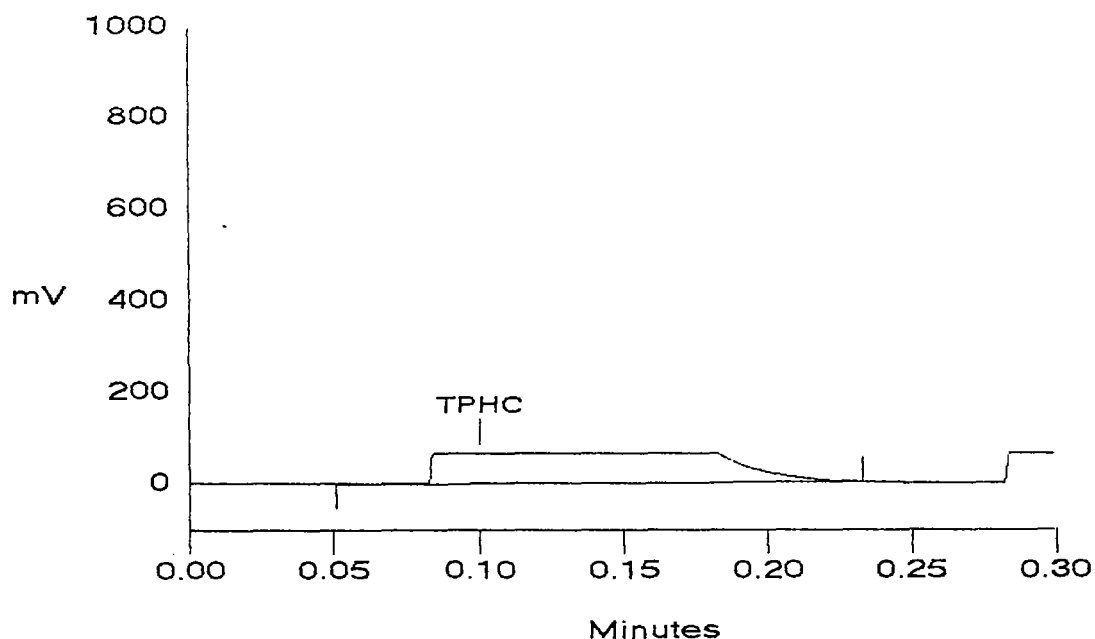
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    900 50Hz  0.00  0.30    30000

```

***** Component Report: Components Found *****

Pk. Num	Ret Time	Component Name	Concentration ppM	Height	Area	Bl. Code	%Delta
1	0.10	TPHC	43.422	65280	437626	1	0.00
Totals			43.422	65280	437626		

File: 10219511.D18 Sample: CALCK.



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.

— NA

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: None

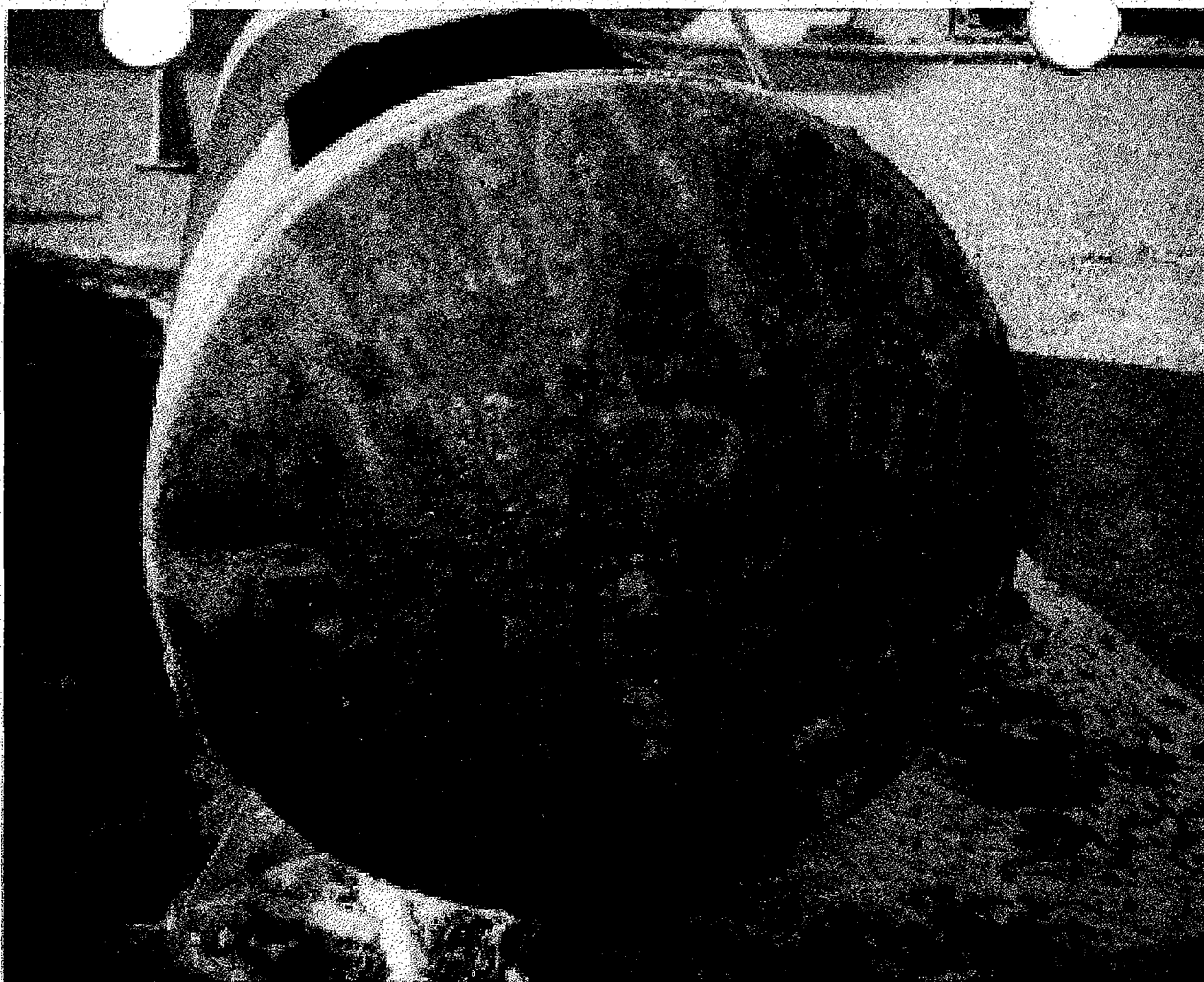
Laboratory Authentication Statement

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 #1959

Brian McKee
Brian K. McKee
Laboratory Manager

APPENDIX F
PHOTOGRAPHS



BLDG 902
1000 GAL

0081533-144
10-19-95

December 1997

PHOTOGRAPHIC LOG

UST No. 81533-144

Building 902

Main Post-West

Fort Monmouth



SMC Environmental Services Group
Engineers, Managers, Scientists, & Planners
Valley Forge, Pennsylvania