United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 826
Main Post-West Area

NJDEP UST Registration No. 0081533-134

December 1997

UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 826

MAIN POST-WEST AREA NJDEP UST REGISTRATION NO. 0081533-134

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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EXECUTIVE SUMMARY

UST Closure

On October 18, 1995, a 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. 0081533-134 (Fort Monmouth ID No. 826), was located south of Building 826. UST No. 0081533-134 was a 550-gallon No. 2 fuel oil UST. The UST fill port was located directly above the tank.

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 and no evidence of potentially contaminated soils was observed surrounding the tank. Samples contained levels of TPHC ranging in concentration from 130 to 553 mg/kg.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with native backfill from the Building 600 area and with topsoil 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. 0081533-134 at Building 826.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-134, was closed at Building 826 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on October 18, 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 a steel 550-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081533-134 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. 0081533-134 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The NJDEP-BUST Closure Approval Letter and signed Site Assessment Summary form for UST No. 0081533-134 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils, 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 826 is located in the Main Post-West area of the Fort Monmouth Army Base. UST No. 0081533-134 was located south of Building 826 and appurtenant steel piping ran approximately eight (8) feet north from the excavation to Building 826. 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 826. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

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

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

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual 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 Zapecza, 1990).

Local Geology

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

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

Hydrogeology

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

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

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

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

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

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

Building 826 located approximately 600 feet southeast of Husky Brook Lake, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 826 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 hole 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 61 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 associated with the UST. No contamination was noted anywhere along the piping length. 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 the Fort Monmouth UST yard and then to Mazza and Sons, Inc., Metal Recyclers. The transportation of the UST was in compliance with all applicable regulations and laws. Refer to Appendix D for a copy of the UST disposal certificate and Appendix F for photographs of the tank.

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

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

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 and native backfill from the Building 600 area 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.

2.3 SOIL SAMPLING

On October 18, 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 7.0 feet bgs. Sidewall samples, C and D were collected at a depth of 7.0 feet bgs. Sample E was collected along the former piping length of the excavation, which was approximately eight (8) 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 from a total of five (5) locations on October 18, 1995. 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 18, 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 130 to 553 mg/kg.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 826 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. 0081533-134 at Building 826.

TABLES

TABLE 1
SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES
BUILDING 826, 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
Α	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1
В	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1
C	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1
D	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1
E	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1
F/ (DUP D)	10/18/95	10/18/95	Soil	Post-Excavation	TPHC	418.1

Note:

* TPHC Total Petroleum Hydrocarbons

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS
BUILDING 826, 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	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/7.0°	1958.1	10/18/95	10/18/95	Total Solid			90%		
				TPHC	100	yes	202	10,000	No
B/7.0'	1958.2	10/18/95	10/18/95	Total Solid			90%		
				TPHC	100	yes	303	10,000	No
C/7.0'	1958.3	10/18/95	10/18/95	Total Solid			91%		
				TPHC	100	yes	187	10,000	No
D/7.0°	1958.4	10/18/95	10/18/95	Total Solid			92%		
				TPHC	100	yes	130	10,000	No
E/2.0'	1958.5	10/18/95	10/18/95	Total Solid			87%		
				TPHC	100	yes	149	10,000	No
DUP D/ 7.0'	1958.6	10/18/95	10/18/95	Total Solid			90%		
				TPHC	100	yes	553	10,000	No

Note:

* Total Solid results are expressed as a percentage.

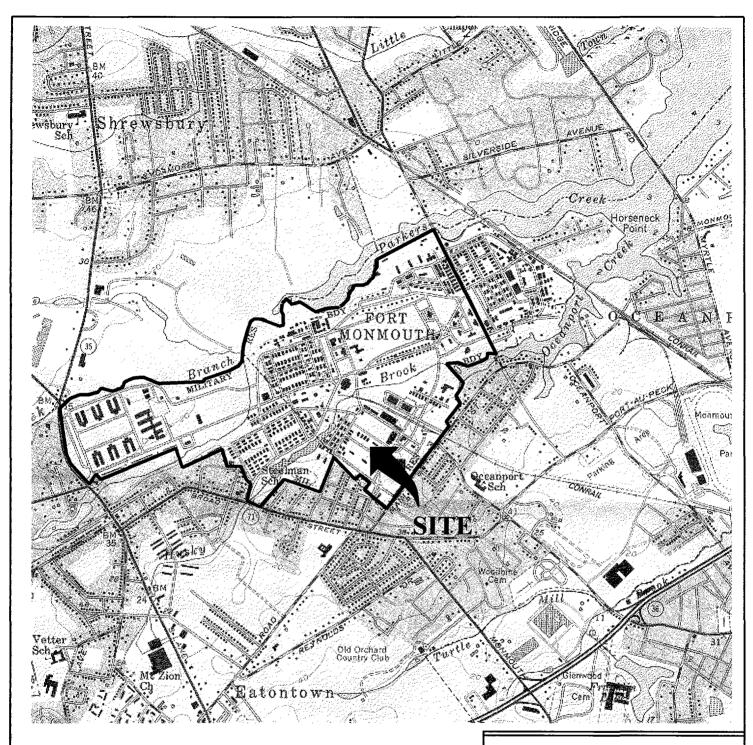
** NJDEP Residential Direct Contact soil cleanup criteria for total organics

ND Not detected above stated method detection limit

-- Not applicable

TPHC Total Petroleum Hydrocarbons

FIGURES





LONG BRANCH, NJ

40073-C8-TF-024

1954

PHOTOREVISED 1981 DMA 6164 I SE -SERIES V822



Quadrangle Location

Mapped, edited and published by the Geological Survey

FIGURE 1

SITE LOCATION MAP

Building 826 Main Post-West Fort Monmouth Army Base Monmouth County, NJ



SMC Environmental Services Group

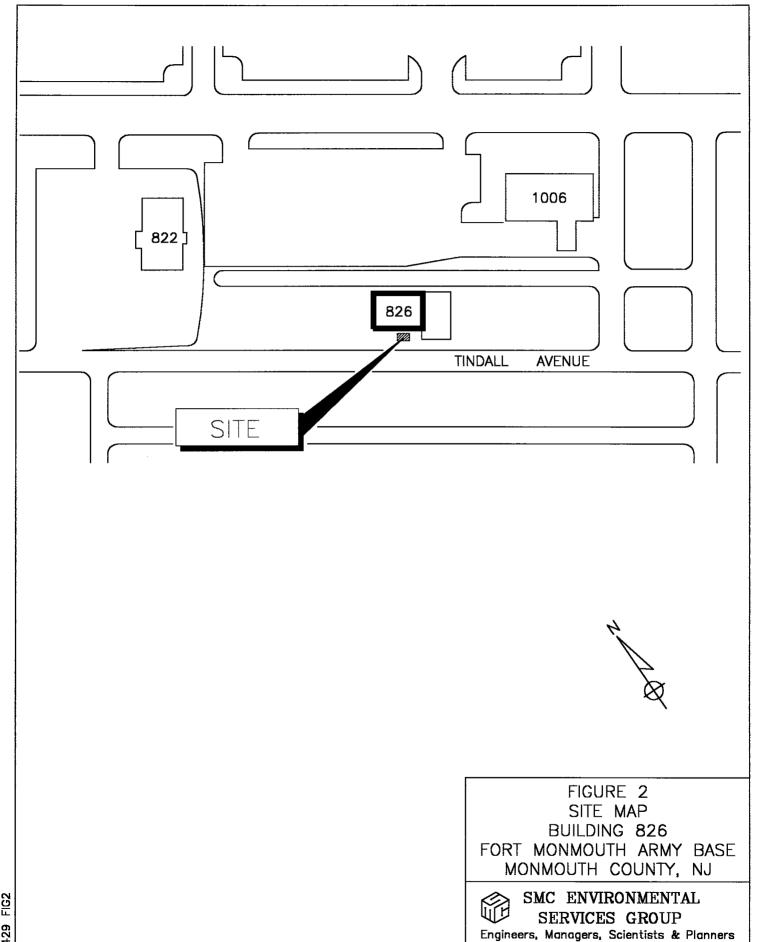
Engineers, Managers, Scientists, & Planners Valley Forge, Pennsylvania

Scale:

1"=2,000"

Date:

DEC 1997



826 2429 FIG2

DATE: DEC. 1997

VALLEY FORGE, PA.

SCALE: 1"=100'

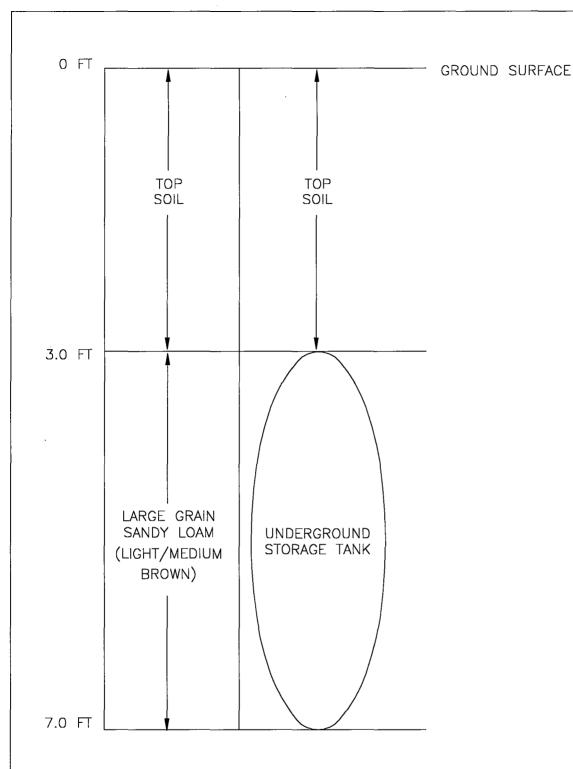


FIGURE 3
CROSS SECTIONAL VIEW
BUILDING 826
FORT MONMOUTH ARMY BASE
MONMOUTH COUNTY, NJ

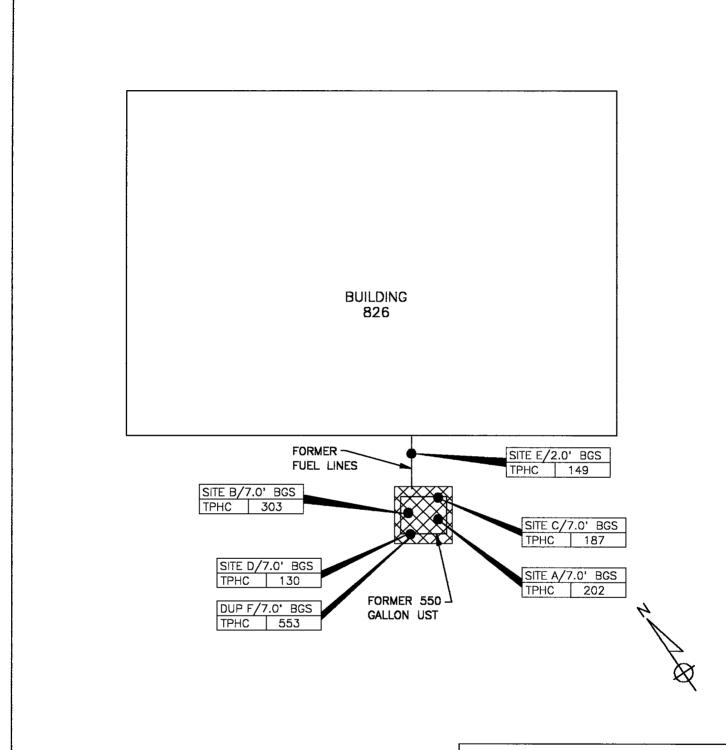


SMC ENVIRONMENTAL SERVICES GROUP

Engineers, Managers, Scientists & Planners VALLEY FORGE, PA.

SCALE: NTS

DATE: OCT. 1997



LEGEND

SOIL SAMPLE LOCATION (OCT. 18, 1995) LIMIT OF EXCAVATION

(OCT. 18, 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 826** 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 2 5 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,

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 L. Sy Division of Responsible Party Site Remediation CN 028 Trenton, NJ 08625-0029

ATTN: UST Program

For State L	Jse Only
Date Rec'd.	
Auth. Routing	*
UST NO.	

	(60)	09) 984-3156
		ANDARD REPORTING FORM orting activities at an UST facility:
	General Facility Information Closure (Abandonment or Temporary Closure Change in Service	
	Check ONLY One Typ	pe of Activity - Complete Form For That Activity
	(More than	in one tank can be listed per activity)
		NEW tank installations at existing registered Registration Questionnaire for the new tanks.
A	nswer questions 1 through 5 and others as app	plicable.
1.	Company name and address (as it appears on registration questionnaire):	U.S. ARMY - FORT MONMOUTH DPW - BUILDING 173 FORT MONMOUTH NIT 07703 ATTN: EUGENE'W LESINSKY
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 BUDG 826	k as it appears in Question Number 12 on the Registration Questionnaire
5.	Registration Number (if known):	ust- $008/533$
6.	a. Facility name: b. Facility location: c. Owner's mailing address:	ges (address, telephone, contact person, etc. – supply NEW information only):
	d. Block: Lot: e. Contact person (facility operator):	J

a. Attach the necessary implementation schedule (3 copies) and all documentation r	7.									
abandonment per N.J.A.C. 7:14B-9.1 (d). b. [X] Removal Date:		8.	☐ Abandonm	ent Date:	/_	Ca	ase No:	·		
b. M. Removal Date:				• .	•	3 copies) and	i ali docume:	ntation ne	jed for	
Aftach 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							_			
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 □ N		Þ.	Removal	Date: <u>[0</u>]	18/43	Case 1	io		_	
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(INIT/MID-2/92)

APPENDIX B SITE ASSESSMENT SUMMARY

FOR STATE USE ONLY	•
UST#	
Date Rec'd	
TMS#	
Staff	
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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 <u>attachments</u> in order to complete the Summary. The technical guidance document, <u>Interim Closure Requirements for UST's</u>, explains the regulatory (and technical) requirements for closure and the <u>Scope of Work, Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems</u> 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 Su	bmission:
Building No. 826 UST No. 81533-134		0192477-1
1. FACILITY NAME AND ADDRESS:		Facility Registration #
U.S. Army Fort Monmouth New Jersey		**************************************
<u>Directorate of Engineering and Housing</u>	Building 167	
Fort Monmouth New Jersey 07703	County <u>Monmouth</u>	
Telephone No. 908-532-6224		
OWNER'S NAME AND ADDRESS, if different	nt from above.	
Telephone No.		
Leiebuone Mo.	-	

11.	DISCHARGE REPORTING REQUIREMENTS
	A. Was contamination found?YesX_ 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?YesNoX N/A
III.	DECOMMISSIONING OF TANK SYSTEMS Closure approval No. Sept. 25, 1995 letter
	The site assessment requirements associated with <u>tank decommissioning</u> are explained in the Technica Guidance Document, Interim Closure Requirements for UST's, Section V. AD. <u>Attach</u> complete documentation of the methods used and the results obtained for each of the steps of <u>tank decommissioning</u> used. Please include a <u>site</u> 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 <u>of all tanks and piping</u> (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 technica 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:
	 a. North arrow and scale b. The locations of the ground water monitoring wells c. Location and depth of each soil sample and boring d. All major surface and subsurface structures and utilities e. Approximate property boundaries f. All existing or closed underground storage tank systems, including appurtenant piping g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table h. Locations of surface water bodies
	C. Soil samples and borings (check appropriate answer)
	Were soil samples taken from the excavation as prescribed?XYes No N/A
	2. Were soil borings taken at the tank system closure site as prescribed?Yes NoX_ N/A
	3. Attach the analytical results in tabular form and include the following information about each sample
	 a. Customer sample number (keyed to the site map) b. The depth of the soil sample c. Soil boring logs d. Method detection limit of the method used

QA/QC Information as required

D.	Gro	ound Wa	ter Monitoring
1.	Nu	mber of	ground water monitoring wells installed
2.			nalytical results of the ground water samples in tabular form. Include the following information for each neach
		a. b. c. d. e.	Site diagram number for each well installed Depth of ground water surface Depth of screened interval Method detection limit of the method used Well logs
		f. g.	Well permit numbers QA/QC Information as required
V. S	OIL	CONTA	MINATION
		A.	Was soil contamination found?YesX No If "Yes", please answer Question B-E If "No", please answer Question B
4		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. 553 ppm TPHC 4. N/A ppb N/A (for non-petroleum substance)
		C.	Remediation of free product contaminated soils
		to l 2. Fre 3. Fre	free product contaminated soil on the property boundaries and above the water table are believed have been removed from the subsurface Yes No see product contaminated soils are suspected to exist below the water table Yes No see product contaminated soils are suspected to exist off the property boundaries Yes No
			e vertical and horizontal extent of contamination determined?Yes No N/A
	E.	Does so	oil contamination intersect ground water?Yes No N/A
VI.	GRO	UND WA	ATER CONTAMINATION
	A.	If "Yes",	ound water contamination found? YesX No please answer Questions B-G. please answer only Question B.
	B.		nest ground water contamination at any 1 sampling location and at any 1 sampling event to date has etermined to be: N/A
		2 3 4.	ppb total BTEXppb total non-targeted VOCppb total B/Nppb total non-targeted B/Nppb total MTBEppb total TBAppb(for non-petroleum substance)
		5. great	est thickness of separate phase product found
		o. sepa	rate phase product has been delineatedYes No N/A

C.	Res	ults (s) of well search
		A well search (including a review of manual well records) indicates that private, municipal or commercial vells do exist within the distances specified in the Scope of WorkYesNo N/A
	2.	The number of these wells identified is
D.	Pro	ximity 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, commerical, 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.	Α	plan for separate phase product recovery has been includedYes No N/A
F.		ground water contour map has been submitted which includes the ground water elevations for each wellYes No N/A
G.	De	lineation of contamination
	1.	The ground water contaminants have been delineated to MCLs or lower values at the property boundaries. Yes No
		The plume is suspected to continue off the properly at concentrations greater than MCLs. YesNo
	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)
		CERTIFYING OPGANIZATION NIDER NUMBER 0014537

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

N.J.A.C. 7:14B-9.2(lty of law that tank decommissioning activities were performed in compliance with b)3. I am aware that there are significant penalties for submitting false, inaccurate, or ion, including fines and/or imprisonment."
NAME (Print or Type)	SAME AS SITE ASSESSMENT SIGNATURE
COMPANY NAME	(Peformer of Tank Decommissioning)
IX. <u>CERTIFICATION</u>	ONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITIES
	certification shall be signed by the highest ranking individual with overall responsibility for that c. 7:14B-2.3(c)1l].
complete. I	der penalty of law that the information provided in this document is true, accurate, and am aware that there are significant penalties for submitting false, inaccurate, or information, including fines and/or imprisonment."
NAME (Print or Type)	James Ott SIGNATURE
COMPANY NAME	U.S. Army Fort Monmouth DATE
B. The following ce	rtification shall be signed as follows [according to the requirements of N.J.A.C. 7:14B-2.3(C)2I]:
 For a partner For a municipal elected officition In cases whe required in A 	re the highest ranking corporate partnership. governmental officer or official at the facility as above is the same person as the official required to certify in B, only the certification in A need
to be made. "I certify under penalin this application and responsible for obtacomplete. I am aw	In all other cases, the certifications of A and B shall be made. Ity of law that I have personally examined and am familiar with the information submitted all attached documents, and that based on my inquiry of those individuals immediately aining the information, I believe that the submitted information is true, accurate, and are that there are significant penalties for submitting false, inaccurate, or incomplete g fines and/or imprisonment."
NAME (Print or Type)	SIGNATURE
COMPANY NAME _	DATE

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

(BLDG.#: 826 REG.#: OCS/S33 - 134 CLOSURE#: DEF 47 DATE: 10-18-51 TOA: 1400 TOD: 1700 GOV. SSE:	R 9	-25-
	REMOVAL CONTRACTOR: SAI Inc. CLOSURE SUPERVISOR: CARLY SALEST NJDEP CERT.#: WEATHER: PARTY CUUDY 68	<u>:</u> .	
	ACTIVITY	YES	7
[THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	14	
	THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	14	
	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	WA	
	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 FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	N	
	IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	1	
;	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	14	
	ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	T 4.	
	ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	MA	
	THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	T 4	UPUSA
	ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	W	, s/m
	THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH)	1	
	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)	$ \mathcal{N} $	
I c	CHECK ALL BOXES, LEA certify under penalty of law that tank decommissioning activiti		
perf	formed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 et seq I	am aw	are
	t there are significant penalties for submitting false, inaccur omplete information, including fines and/or imprisonment.	ate,	or
	NATURE: DATE:		
\	Nust\ramoval\sitessle des		

APPENDIX C WASTE MANIFEST



编

Printed/Typed Name

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



Morth Dav

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 2. Page 1 Generator's US EPA ID No. **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law. **WASTE MANIFEST** State Manifest Document Number B. State Generator's ID-(Gen. Site Address) SAME State Trans. ID-NJDEPE D 0'8 RECOVERY CO.. INC. Decal No. Transporter 2 Company Name US EPA ID Number E. State Trans. ID-NJDEPE Designated Facility Name and Site Address L'IONETTI OIL RECOVERY CO., Decal No.-INC./DBA LÖRCO PETROLEUM SVCS. Transporter's Phone (**RUNYON & CHEESEQUAKE ROADS** G. State Facility's ID 08857 OLD BRIDGE NJ 721-0900 N J D O 8 4 O 4 4 O 6 4 H. Facility's Ph. 908 13. 11. US DOT Description itnatuding Proper Shipping Name, Hazard Class or Division.

HM ID Number and Packing Group) 14. Total Unit Waste No. HM No Type Quantity Wt/Vo PETROLUEM OIL (PETROLEUM OIL) COMBUSTIBLE LIQUID UN 1270 PG III 0 001 TTXX1 10 6 Petrollumoic (Petrollum oic) 001 TTXXX616 CombustiBle LIQUIDUN 1270 PGII đ. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above T.L' PETROLEUM OIL 9 TO4-FILTRATION T. L Petroleum Orl TO4-FILTRATION ¹⁵NOT^{*}CEPA[®]REGULATED ^{***}REGULATED **AS* HAZARDOUS WASTE IN NEW JERSEY 24 HOUR EMERGENCY RESPONSE #(908)721-0900 ERG# 27 DEXSIL TEST KIT RESULTS 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 re 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 sal currently available to me which minimizes the present and stora e, or disc future threat to numan health and the environment; OR, if I am a small quana good faith eff este generation and select the best waste management method that is available to me and that I can Month Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed_Name Year Month Dav Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year Discrepancy Indication Space Facility Owner or Operator: Certification of receipt of hazardous materials advered by this manifest except as noted in Item 19

Sunature

APPENDIX D UST DISPOSAL CERTIFICATE

		MAZZA & SONS, INC. Metal Recyclers Auto and Truck	NO. 295 DATE 14 aous
		3230 Shafto Rd. Tinton Falls, NJ (908) 922-9292	
	t	E-5487Bus	
	Address		· · · · · · · · · · · · · · · · · · ·
Make of Autos			Weight Price
			Cast Iron Steel ///. 3
	<u> </u>		Lt. Iron
		15460 LB	Copper #1
		12280	Copper #2
Tires			Lt. Copper
Tank		3180	Brass
Price:		3100	Alum Clean
			Lead
A STATE OF THE STA		OU GOTTOTAL	Stainless Radiators
		ATTENDED TO THE PARTY OF THE PA	Battery
		212	
	· · · · · · · · · · · · · · · · · · ·	BLDG 826	
	······································	PP81533-134	TOTAL AMOUNT:
	_		
	1)	BLDG 552	
	\mathcal{L}	ØØ81533-81-	
	/\ \		

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 #:1958.1-.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.#: 0081533-134

Closure #:

DICAR #:

Location #: Bldg. 826

Lab ID.	Description		%Solid	Result	MDL
1958.1	Site A E. Bottom	OVA=ND	90	202.	100
1958.2	Site B W. Bottom	OVA=ND	90	303.	100
1958.3	Site C N. Sidewal	1 OVA=ND	91	187.	100
1958.4	Site D S. Sidewal	1 OVA=ND	92	. 130.	100
1958.5	Site E Fuel Lines	: OVA=ND	87	149.	100
1958.6	Site F Duplicate	OVA=ND	90	553.	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

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 #: 1958.1-.6

Sample Rec'd: 10/18/95 Analysis Start: 10/20/95

Analysis Comp: 10/21/95

Analysis: Munsel

Lab ID#	Soil Color
1958.1	2.5Y 3/3 Dark Olive Brown
1958.2	2.5Ÿ 4/4 Olive Brown
1958.3	2.5Y 4/4 Olive Brown
1958.4	10YR 4/6 Dark Yellowish Brown
1958.5	10YR 4/6 Dark Yellowish Brown
1958.6	10YR 4/6 Dark Yellowish Brown

Brian K. McKee Laboratory Director

SI RV-AIR, INC. AI E-SYSTEMS CO.

Decinal He			P.O.	# PWS	<u> </u>	Þ7							-		۲,	Cha	in of	Custod	у		
Project #:			Samp	ler:	REEN	· · · · · · · · · · · · · · · · · · ·			e /				Ana ara						Star	t:	
Customer: G.LESINS SELFM-PO	U-E		Site BLI		- 8.26 - 668/53	· 7 -1	3.U	10-18	<u>-9.3 </u>	<u>193</u>	<u>p</u>								Fini	•	
Phone: 908-	-532	-0989			440124		1	· ·			•	X	49	%	IJ,	//	/ <i>L</i>	:/ .	Prese	rvatio Metho	
Lab Sample [.] ID Number	Date	lllll' 'Time'	C. Loca	stomer tion/I	Sample D Number	Sam Mat	ple rix	.# of Bott1		/	//		19/1					R	emarks	7	
1958.1	10-18-9	1442	SITE	4 - EA	ST BOTTOM	So	ル	1		>	<	X	X			N	_		s Ke	97	
. 2	 	1444	17	3 - WE	ST BOTTOM				•	_		X	\times			M	<u> </u>	<u> </u>	<u>°С</u>	<u> </u>	
. 3		1446		C - NO	RTH SW							$\overline{\lambda}$.		N	7			<u> • </u>	
4		1448			UTH 5W						X	X	X.			. 14					
5		1450	1	E-F	UEL LINES	@Z	Ł		.		<u> </u>	X	X			W					
6	V	1448	<u>V</u>	=- D	UP	7	/	O/			<u> </u>	人	X			M	<u> </u>				
														·				;			
										·							OVA	+ CAL	-1BRAT	\$D I	
• •		NOT	3.6	All	SAMPLES	TI	4140	W							·	<u> </u>	25	PPM	METE	R RE	如
L				AT A	- DEPTITO	0	7.1	551									w/	95 PH	M CH	1 to 9	<u>{</u>
• •		<u> </u>						<u> </u>									at	143	OH	es o	<u> </u>
Relinquished	By (:	signatu	ire)	Date'	/ Time Re	ceiv	ed l	By (si	gna	ture	>	5	hip	ped	Ðy:		10-10	9-95	_ W	K.61	<u></u>
	<u>/</u>				<u> </u>							•	<i>.</i>					٠,		14	
Relinquished	:) By (: 1/1	signatu 		Date	/ Time Re	ceiv	ed t	for La	1b b	y (s	ig:	nat	ure	›:·		Dat	e / 1	Time	Sour A52	114	
Note: A draw	ing de	epictir				uld	be d	attach	ned :	or c	rai	wn	on	the	rev	erse	side	of	his ch	ain	
SRI-ENV COC	form !	01			Page		o	٠ 		. Pa	ge	5	•	Re	y. F	l Da	te: 0	2 Apr	93	•	ليبير
Enying	nmenta	al Labor	atory	NE	5176	MA							FRE	RI	116	. ·		IPLI		may !	•

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

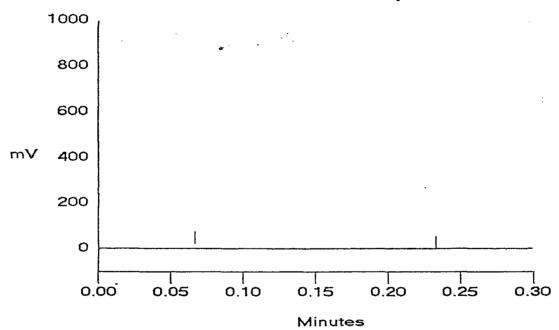
Detector:OTHER

Analyst : BKM Column: IR

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

Totals 0.000 0 0

File: 10219511.D01 Sample: BLANK



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Data File : C:\DX\DATA\10219511.D03

Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 3 Detector:OTHER

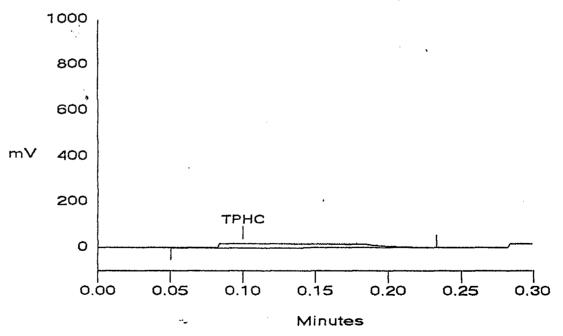
Analyst : BKM Column: IR

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 900 50Hz 0.00 0.30 30000

Pk. Num		Component Name	Cor	ncentration ppM	Height		Bl. Code	%Delta
1	0.10	TPHC		10.927	16427	108289	1	0.00
			Totals	10.927	16427	108289		

File: 10219511. D03 Sample: 1958.1 B826 A



Sample Name: 1958.2 B826 B Date: 10/23/1995 12:09:39

Data File : C:\DX\DATA\10219511.D04

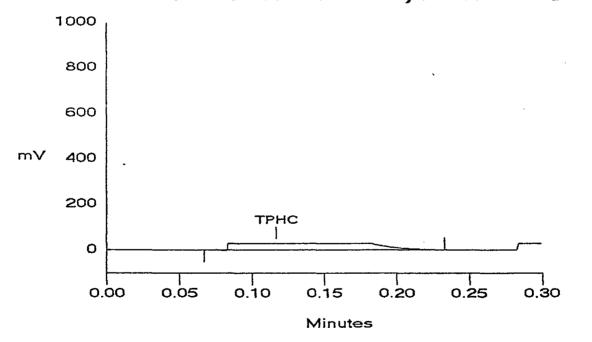
Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 4 Detector:OTHER

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	900	50Hz	0 - 00	0.30	30000

Pk. Num	Ret Time	Component Name	C	oncentration ppM	Height	Area :	Bl. Code	%Delta
1	0.12	TPHC		18.255	27444	188507	1	0.00
			Totals	18.255	27444	188507		

File: 10219511.D04 Sample: 1958.2 B826 B



Data File : C:\DX\DATA\10219511.D05
Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 5 Detector:OTHER

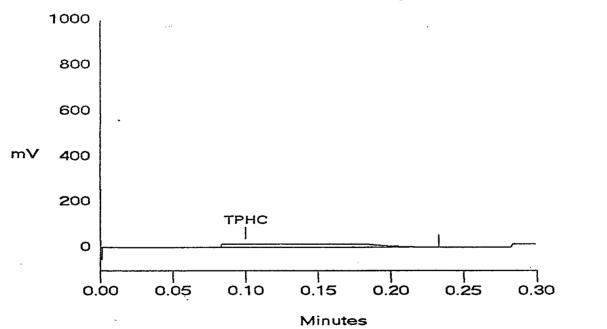
Analyst : BKM Column: IR

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

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

Pk. Num	Ret Time	Component Name	•	ncentration ppM	Height	Area	Bl. 5 Code	≿Delta	
1	0.10	TPHC		10.246	15403	101536	1	0.00	
			Totals	10.246	15403	101536			

File: 10219511.D05 Sample: 1958.3 B826 C



Sample Name: 1958.4 B826 D Date: 10/23/1995 12:16:04

Data File : C:\DX\DATA\10219511.D06

Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 6

Analyst : BKM Column: IR

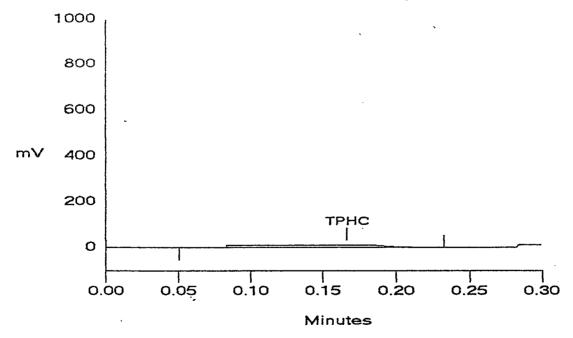
I HIGIYSE . DATI COLUMNI. IK

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

Pk. Num	Ret Component Time Name	Cor	centration ppM	Height	Area C	Bl. % ode	:Delta
1	0.17 TPHC		7.219	10853	74799	1	0.00
	•	Totals	7.219	10853	74799		

File: 10219511.D06 Sample: 1958.4 B826 D

Detector:OTHER



Data File : C:\DX\DATA\10219511.D07
Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 7 Detector:OTHER

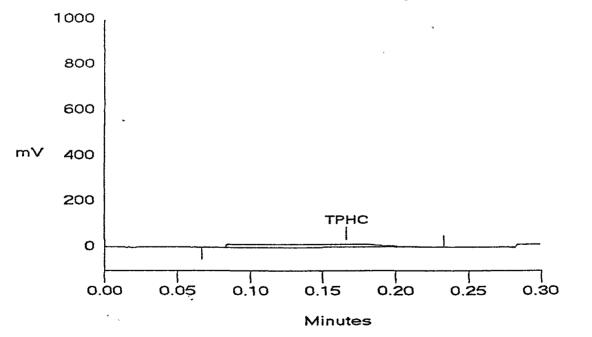
Analyst : BKM Column: IR

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

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

Pk. Num		Component Name	Con	centration ppM	Height	Area C	Bl. % ode	≿Delta	
1	0.17	TPHC		7.769	11679	82231	1	0.00	
			Totals	7.769	11679	82231			

File: 10219511.D07 Sample: 1958.5 B286 E



Sample Name: 1958.5 DUP.

Date: 10/23/1995 12:23:45

Data File : C:\DX\DATA\10219511.D08

Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 8 Detector:OTHER

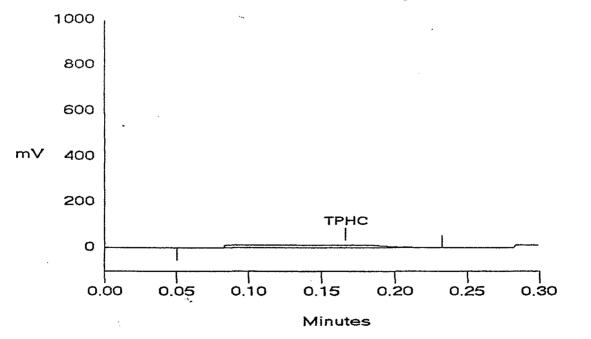
Analyst : BKM Column: IR

- Andryst - DNN - COldmin- IR

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

Pk. Num	Ret Componen Time Name	t Cond	centration ppM	Height	Area (Bl. %	Delta
1	0.17 TPHC		8.418	12655	87622	1	0.00
		Totals	8.418	12655	87622		

File: 10219511.D08 Sample: 1958.5 DUP.



Sample Name: 1958.5 SPK. Date: 10/23/1995 12:27:43

Data File : C:\DX\DATA\10219511.D09 : c:\dx\method\tph.met

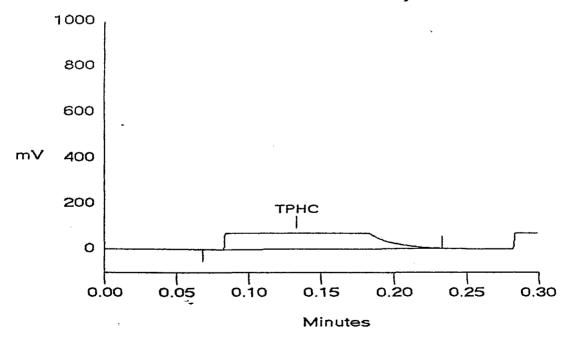
ACI Address: 1 System: 1 Inject#: 9 Detector:OTHER

Analyst : BKM Column: IR

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	900	50Hz	000	0.30	30000

Pk. Num		Component Name		Concentration ppM	Height	Area	Bl. Code	%Delta
1	0.13	TPHC		46.670	70163	478661	1	0.00
			Totals	46.670	70163	478661		-

File: 10219511.D09 Sample: 1958.5 SPK.



Sample Name: 1958.5 DUP. SPK. Date: 10/23/1995 12:29:47

Data File : C:\DX\DATA\10219511.D10

Method : c:\dx\method\tph.met

ACI Address: 1 System: 1 Inject#: 10 Detector:OTHER

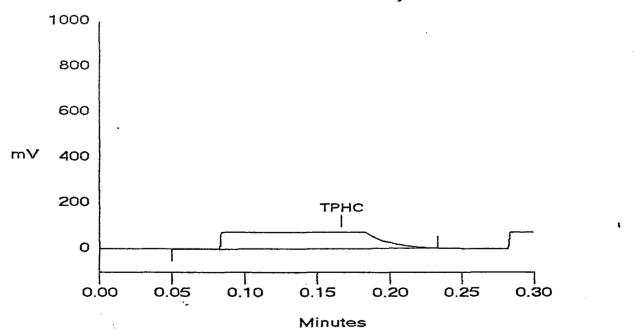
Analyst : BKM Column: IR

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

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

Pk. Num		Component Name	Cor	ncentration ppM	Height		Bl. S Code	%DeIta	
1	0.17	TPHC		47.220	70990	490876	1	0.00	
			Totals	47.220	70990	490876			

File: 10219511.D10 Sample: 1958.5 DUP. SPK.



Sample Name: 1958.6 B268 F Date: 10/23/1995 13:13:16

Data File : C:\DX\DATA\10219511.D11
Method : c:\dx\method\tph.met

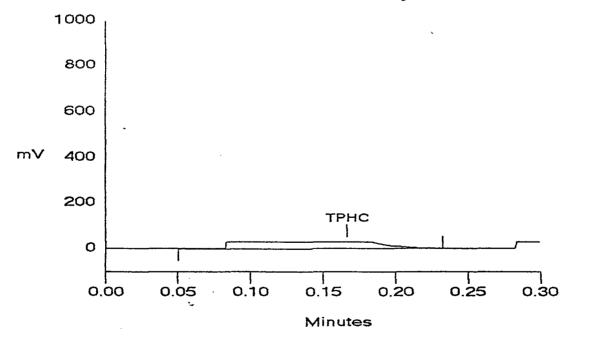
ACI Address: 1 System: 1 Inject#: 11 Detector:OTHER

Analyst : BKM Column: IR

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

Pk. Num		Component Name	Co	ncentration ppM	Height	Area (Bl. 9	≱Delta
1	0.17	TPHC		19.166	28814	197901	1	0.00
		•	Totals	19.166	28814	197901		

File: 10219511.D11 Sample: 1958.6 B268 F



PHC Conformance/Non-conformance Summary Report	<u>No</u>	<u>Yes</u>
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
 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: Nove		

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 #1958

Brian K. McKee Laboratory Manager **APPENDIX F**

PHOTOGRAPHS



December 1997

PHOTOGRAPHIC LOG

UST No. 81533-134

Building 826
Main Post-West
Fort Monmouth



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