

**US ARMY, FORT MONMOUTH
NEW JERSEY**

**DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL OFFICE**

**UNDERGROUND STORAGE TANK SYSTEM
REMEDIAL INVESTIGATION
REPORT (PRELIMINARY)**

**BUILDING 208-B
CASE #93-10-21-1913-44**

PREPARED BY

**CHARLES M. APPLEBY
ENVIRONMENTAL PROTECTION SPECIALIST
NJDEPE UST SUBSURFACE CERTIFICATION # 002056**

FEBRUARY 16, 1994

U.S. Army
DEH Bldg. 167
SELFM-PW-EV
Fort Monmouth, NJ 07703

Date: 16, FEBRUARY 1994
Building #: 208-B
NJDEPE UST Reg. #:0081533-211
NJDEPE CASE # 93-10-21-1913-44

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EXECUTIVE SUMMARY

Building 208 is located in the Barkers Circle Military Housing Barracks area at Main Post, Fort Monmouth. The Building were built prior to 1928 and were originally coal fired. After WWII they were changed to oil fired and in 1993 they were changed to natural gas fired. Over the years the systems were modified and few records exist as to exact dates of alterations. The UST system in use for the building most recently was a 4000 gallon fiberglass reinforced plastic system (NJDEPE Registration # 0081533-06), AKA-208-A. A closure Permit was obtained for this system on July 12, 1993 and the system was removed October 19, 1993. A Steel 4000 gallon UST (designated 208-B) was found to exist at the site, approx. 50 feet from the 208-A site, and was removed along with UST 208-A. The UST systems at Bldg. 208 were removed on October 19, 1993. During the removal activities, a discharge to the environment was identified and reported the NJDEPE (Case # 93-10-21-1913-44). An NJDEPE Standard Reporting Form for sites 208 A and B was sent to the NJDEPE November 9, 1993. On February 10, 1994 the 208-B UST was registered with the NJDEPE (NJDEPE Registration # 0081533-211) and a Closure Fee was paid.

Site 208-A was assessed by TPHC sampling and analysis and the highest concentration was found to be 70.1 mg/kg TPHC. Site 208-B was assessed by TPHC sampling and analysis and two areas of the excavation had TPHC results greater than 1000 mg/kg. Site B-1 was 2650 mg/kg TPHC and Site B-5 was 1060 mg/kg. Additional remedial excavation was done in both areas B-1 and B-5. Post excavation sampling and analysis indicated Site B-1 to be 63.6 mg/kg (Dupe sample was 381 mg/kg) and Site B-5 was 43.9 mg/kg (no dupe sample was taken). Groundwater was encountered at Site 208-B at 4.0 ft. below grade. Petroleum was observed on groundwater and was removed via Vacuum truck and absorbent pads. All wastes were handled IAW NJDEPE regulations and the UST removal contractor was NJDEPE certified. The Subsurface Evaluator during removal operations (October 19, 1993) was Dinker Desai, U.S. Army. The Subsurface Evaluator during remedial activities (October 22, 1993) was Charles Appleby, U.S. Army.

The excavation has been backfilled and a monitoring well is scheduled for installation in March, 1994. Sampling and analysis will follow in April, 1994. Currently no receptors have been identified and no adverse impact to the environment has been identified. Once the groundwater analytical data is complete, a report of greater detail will be forwarded to the NJDEPE Case Manager.

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UNDERGROUND STORAGE TANK SYSTEM (UST) DECOMMISSIONING / CLOSURE SUMMARY

A. General Requirements:

All activities associated with the decommissioning of the underground storage tanks (USTs) complied with all applicable Federal, State and Local laws and ordinances. These laws included but were not limited to: NJAC 7:14B et seq., 5:23 et seq. and OSHA 1910.146 & 1910.120.

B. Safety and Health:

Before, during, and after all activities, the work site was made free of all hazards 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. All areas which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing approved equipment. The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA. The removal contractor prepared a Site Specific Health and Safety Plan for the closure activities. A copy of the HASP is on file at the Directorate of Public Works (DPW) Environmental Office and the Fort Monmouth Garrison Safety Office.

C. UST Excavation:

1. All underground obstructions (utilities,... etc.) were marked out by the contractor performing the excavation.
2. All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
3. All excavated soils were evaluated as to the possibility of contamination. Soils suspected to be contaminated with product were staged on poly-sheeting separate from soils not suspected to be contaminated (see section E Excavated Soils management).
4. Surface materials (ie. asphalt, concrete, etc...) were excavated and staged separate from all soils.

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5. The Tank and Piping were exposed and the piping was drained into the UST. The piping led to the building but was cut off previously. The UST was vacuumed out by Freehold Cartage. On October 19, 1993 2820 gallons of X722 waste from UST pump out activities was manifested out to Lionetti Oil Recovery Co. Inc. (Manifest # NJA 1706539). On November 01 150 gallons of X722 waste from drummed UST contents was manifested out to Lionetti Oil Recovery Co. Inc. (Manifest # NJA 1706538). trench was sampled. Five cubic yards of suspected contaminated soil was removed on October 19, 1993 and two cubic yards were removed October 22, 1993 during remediation activities. All soil was transported to the Fort Monmouth Main Post staging area.

7. After completion of the Site Assessment activities, the excavation was backfilled to grade with noncontaminated soils from the site and additional certified clean fill and compacted to grade.

D. UST Transport / Disposal:

1. The tank was transported by the removal contractor and recycled by MAZZA & SONS, INC. Metal Recyclers, 3230 Shafto Rd. Tinton Falls NJ, NJDEPE #1336001136, in compliance with all applicable regulations and laws.

2. The Subsurface Evaluator labeled the tank prior to transport to the Storage Area with the following information:

- a. site of origin: U.S. ARMY, FORT MONMOUTH
- b. contact person: Charles Appleby
- c. NJDEP UST ID numbers:0081533-210
- d. product previously stored; HEATING OIL
- e. name of transporter/contract person:
Cute Inc. / Nancy Williams
- f. destination site / contact person
MAZZA AND SONS INC. / Dominic Mazza

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E. Excavated Soils Management:

1. All excavated soils suspected to be contaminated were transported, by the contractor, to a designated staging area within Fort Monmouth (T-80 yard). The designated area contains the covered soils and directs all stormwater runoff away from any contact with the soils.
2. All soils stored in the designated staging areas will be maintained in piles no larger than 500 cubic yards each. Each pile will be lined and covered with weighted poly-sheeting to ensure proper containment.
3. Each soil pile will be sampled and analyzed for waste classification as outlined in the NJDEP document titled "Management of Excavated Soils" dated August 17, 1990.
4. All soils categorized as Hazardous Waste or Nonhazardous Waste will be managed as such, in accordance with N.J.A.C. 7:26-1 et seq.. Fort Monmouth has an established contract with Allied Environmental Services Inc., for the thermal treatment / recycling of ID-27 soils at Soil Remediation of Philadelphia Inc.. Permits for the recycling of the soil will be obtained from the NJDEPE prior to the transport of the soil from Fort Monmouth.
5. All soils that contain levels of contaminants below the Category 3 soil limits will be used in accordance with Federal and State requirements.

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**UNDERGROUND STORAGE TANK SYSTEM (UST)
SITE ASSESSMENT SUMMARY**

General:

This site specific assessment plan was managed and carried out by the U.S. Army DPW, Serv-Air Inc. (Base Operations Laboratory) and CUTE Inc. (Removal Contractor) personnel. All analyses were performed and reported by NJDEPE certified testing laboratories. All monitoring wells will be installed by a NJDEPE licensed well driller. All sampling was performed under the direct supervision of a NJDEPE Certified Sub-Surface Evaluator and according to the methods described in the 1992 NJDEPE Field Sampling Procedures Manual. All records of the Site Assessment Activities are maintained by Fort Monmouth, DPW: Environmental Office.

UST Removal Contractor: Cleaning Up The Environment (CUTE) Inc.
Company NJDEPE Cert. #:0200128
Contact Person: NANCY WILLIAMS
Phone Number: (201) 427-2881

Subsurface Evaluator: CHARLES APPLEBY
NJDEPE Cert. #: 0002056
Employer: U.S. Army, Fort Monmouth
Phone Number: (908) 532-6224

Subsurface Evaluator: DINKER DESAI
NJDEPE Cert. #: E0002266
Employer: U.S. Army, Fort Monmouth
Phone Number: (908) 532-1475

Analytical Laboratory: U.S.ARMY ENVIRONMENTAL LABORATORY
NJDEPE Cert. #: 13461
Contact Person: BRIAN K. McKee
Phone Number: (908) 532-4359

Well Driller: TYREE ORGANIZATION INC.
Driller: MICHAEL BECK
NJDEPE Cert. #:J1421
Phone Number: (609) 239-0030

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**PHASE I
UST SYSTEM DECOMMISSIONING**

A. Site Excavation:

1. Excavation of suspect contaminated soil continued until the side walls of the excavation had no field observable contamination and/or laboratory analytical results indicated concentrations below concern.

**PHASE II
Site Survey**

A. Vapor Screening:

1. On October 19, 1993 an individual under the direct supervision of a NJDEPE Sub-Surface Evaluator and trained in the operation of a PID evaluated the sides of the excavation. An Hnu HW-101 SN#270136 calibrated with 57ppm Span Gas for 10.2ev span set at 8.2 was utilized. On October 22, 1993 an individual under the direct supervision of a NJDEPE Sub-Surface Evaluator and trained in the operation of a OVA evaluated the sides of the excavation. A FOXBOROUGH OVA-128 SN#52114 calibrated with 95ppm Methane read 96 ppm prior to field use.
2. Based on the observed field readings, soils were excavated and transported to the area staging area.
3. All observed instrument readings were documented and are included in Phase III Tables 1 and 2.

**PHASE III
Site Sampling**

A. SOIL SAMPLING:

1. Soil samples were collected and analyzed from the UST excavation and are summarized in TABLE 1 and 2 as follows:

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TABLE 1

**BUILDING 208-B , UST# 0081533-211
 NJDEPE CASE # 93-10-21-1913-44
 SUBSURFACE SOIL ANALYSIS SUMMARY REPORT
 LABORATORY: U.S.ARMY ENVIRONMENTAL LABORATORY
 NJDEPE Cert. # 13461
 SAMPLING DATE: October 19, 1993**

ANALYTICAL RESULTS (MG/KG)		
	TOTAL PETROLEUM HYDROCARBONS (MG/KG)	Hnu SCREENING PPM
NJDEPE RESIDENT. SOIL CLEANUP CRITERIA	1000	NONE
SAMPLE B-1	2650	3
B-2	521	9
B-3	300	2
B-3 (DUPE)	67.9	2
B-4	8.7	ND
B-5	1060	4
B-6	120	1
B-7	185	ND
L-1	338	ND
L-2	182	ND
L-3	24.5	ND

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TABLE 2

**BUILDING 208-B , UST# 0081533-211
NJDEPE CASE # 93-10-21-1913-44
SUBSURFACE SOIL ANALYSIS SUMMARY REPORT
LABORATORY: U.S.ARMY ENVIRONMENTAL LABORATORY
NJDEPE Cert. # 13461
SAMPLING DATE: October 22, 1993**

ANALYTICAL RESULTS (MG/KG)		
	TOTAL PETROLEUM HYDROCARBONS (MG/KG)	Hnu SCREENING PPM
NJDEPE RESIDENT. SOIL CLEANUP CRITERIA	1000	NONE
SAMPLE A	63.6	6
B (DUPE OF A)	381	6
C	43.9	80

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PHASE IV
Groundwater Monitoring

- A. Monitoring wells will be installed within the Site at all UST locations where the tanks(s) being closed stored gasoline, kerosene, jet fuel and/or site specific factors indicated a know or potential impact of soil contamination existed.
- B. Groundwater monitoring wells will be installed by a New Jersey licensed Well Driller in accordance with N.J.S.A 58:4A-4.1 et seq.. The well driller will obtain the required permits prior to well installation.
- D. The Drill Tailings generated from the monitoring well installation(s) will be screened (FID and/or PID) in the field by the Subsurface evaluator.
- E. Each monitoring well will be developed to a turbidity free discharge at the time of installation. The development water will be discharged to the ground in the immediate area of installation if no impact to the environment will occur.
- F. All monitoring well sampling will be conducted according to methods described in the NJDEP Field Sampling Procedure Manual 1992.
- G. All laboratory analyses will be performed by a NJDEPE Certified laboratory using approved methods and followed all Quality Control/Assurance procedures as described for each method.
- H. The complete Laboratory reports and supporting QA/QC data will be forwarded to the NJDEPE when received

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UST REMOVAL FIELD CHECK LIST

NJDEPE FACILITY ID#: 0081533
UST#: 211
US ARMY SUBSURFACE EVALUATOR: CHARLES APPLEBY
NJDEPE CERTIFICATION NUMBER: 2056
REMOVAL CONTRACTOR: CUTE INC.

NJDEPE HOTLINE: (609) 292-7172 CALLED BY:CHARLES APPLEBY
DATE: 10-21-93 TIME: 1913 OPERATOR: 22 SITE#: 93-10-21-1913-44

EMERGENCY PHONE #'S: FIRE, POLICE, FIRST AID: 911

WEATHER: COLD APPROX. 60F, CLEAR SKIES
DATE: 10/19/93 TOA: 0730 TOD: 2030

UST's REMOVED

UST # CONSTRUCTION SIZE CONDITION (HOLIDAYS,ETC..) PHOTO

211 I STEEL SINGLE I 4000 I NUMEROUS HOLES I YES

1. TYPE OF BACKFILL REMOVED AROUND TANKS:
OLIVE BROWN (2.5Y 4/4) 80%-MED SANDS, 20%-FINE SILTS
2. WAS WATER IN EXCAVATION? YES DEPTH TO WATER (FT.) 4
3. WAS FREE PRODUCT OBSERVED IN EXCAVATION? YES
4. VAC TRUCK,WASTE HAULER NAME AND TRUCK NUMBER: FREEHOLD
CARTAGE, TRUCK#48594, RECYCLER-L&L SERVICE ABERDEEN NJ,
EPA#NJDO11427895

5. UST WASTE REMOVED

UST #	OIL/H2O GAL.	SLUDGE DRUMS	SOIL(ID27) CUYDS	HAZ.SOILS DRUMS
211	I 2970	I NONE	I 8	I NONE

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6. WHO AUTHORIZED THE BACKFILL OF THE EXCAVATION? CHARLES APPLEBY
7. AMOUNTS OF BACKFILL USED: CLEAN FILL 51 CUYDS,
WASHED STONE 0 TONS
8. LOOSE ID27 WASTE SOILS WERE TRANSPORTED TO: NA
9. DRUMS OF HAZARDOUS WASTE WERE TRANSPORTED TO: NA
10. REMOVAL COMPLETED: TIME: 2000 HRS DATE: 10/19/93



State of New Jersey
Department of Environmental Protection and Energy

Division of Responsible Party Site Remediation

CN: 028

Trenton: NJ 08625-0029

ATTN: UST Program
(609) 984-3156

For Statistics Only	
Date Rec'd:	_____
Auth:	_____
Routing:	_____
UST NO.:	_____

STANDARD REPORTING FORM
for reporting activities at an UST facility:

- | | |
|--|---|
| <input type="checkbox"/> General Facility Information Changes | <input type="checkbox"/> Sale or Transfer |
| <input checked="" type="checkbox"/> Closure (Abandonment or Removal) | <input type="checkbox"/> Substantial Modification |
| <input type="checkbox"/> Temporary Closure | <input type="checkbox"/> Financial Responsibility |
| <input type="checkbox"/> Change in Service | <input type="checkbox"/> 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
DEH Bldg 167
Fort Monmouth NJ 07703
ATTN: Charles Appley

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

MAIN POST

3. Contact person for this activity:

Charles Appley
Telephone Number: (908) 532-6224

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

Bldg 208 (Back Reg. + Closure Fee) 6, 210
For 210 will be sent

5. Registration Number (if known):

UST- 0081515 081533

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): _____

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

a. Abandonment Date: / / Case No:

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

b. Removal Date: 10/19/93 Case No: 93-10-21-1913-44
Attach the necessary implementation schedule (3 copies) (310)

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:
- b. Policy Number:
- c. Other:
- d. Company/Carrier:
- e. Expiration Date:

(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-2.3 (a) 1).

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

Signature: Richard P. DeLisa Jr.

Name (print or type): Richard P. DeLisa Jr.

Title: Plant Manager Date: 10/19/93



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

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

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ 3210020597	Manifest Document No. 00101014	2. Page 1 of	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address US Army Communications Electronics Center c/o James Shirghio, Bldg 2504 ATTN: SELFM-DL-EM-MS		State Manifest Document Number NJA 1706538		B. State Generator's ID 811 2088 - UST-46	
4. Generator's Phone 908 532-6224		Fort Monmouth NJ 07703		Main Post	
5. Transporter 1 Company Name Freehold Cartage Inc.		IN J ID 10 15 14 11 12 16 11 16 14		C. State Trans. ID NDEP5122601	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (908 462-1001	
9. Designated Facility Name and Site Address Lionetti Oil Recovery Co., Inc. Runyon & Cheesequake Rds. Old Bridge, NJ 08857		10. US EPA ID Number NJ ID 10 18 14 10 14 10 16 14		E. State Trans. ID	
11. Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		14. Unit	
X Petroleum Oil, N.O.S. Class3 (Petroleum Oil) Combustible Liquid UN 1270 PG III		No. Type Total Quantity		W/Voll Waste No.	
				0 0 1 T T 00 15 0 G X 7 2 2	
J. Additional Descriptions for Materials Listed Above T, L Petroleum Oil 10 % Water 90 %		K. Handling Codes for Wastes Listed Above TO4-Filtration			
13. Special Handling Instructions and Additional Information NOT EPA REGULATED, REGULATED AS HAZARDOUS WASTE IN NJ 24 HOUR EMERGENCY# 201-427-2881 NJ DECAL # 48594 ERG# 27		15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are packaged, 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 Name Charles M. Appley - SELFM-PW-EV		Signature <i>[Signature]</i>		Month Day Year 11/10/93	
16. Transporter 1 Acknowledgement of Receipt of Materials Printed Name ALFONSO TROCCHIO		Signature <i>[Signature]</i>		Month Day Year 11/10/93	
17. Transporter 2 Acknowledgement of Receipt of Materials Printed Name		Signature		Month Day Year	
18. Discrepancy Resolution Space					
19. Additional Information (Location of receipt of hazardous materials covered by this manifest except as noted in item 13.) Signature Month Day Year					

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection and Energy. (609) 292-7172

short form b//

carbon

STRAIGHT BILL OF LADING—SHORT FORM—Original—

MAZZA & SONS, INC.

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

NO. _____

DATE 25 OCT 91

Customer's Name Cute inc

Address 3000 9th TINT

Tank 208B

**Make of
Autos**

Tires

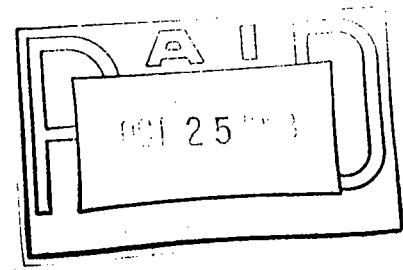
Tank UST # 81533 - 210 Bldg 208B

Price:

41480 LB G

38100 LB G

3380



Weight Price

Cast Iron	
Steel	
Lt. Iron	
Copper #1	
Copper #2	
Lt. Copper	
Brass	
Alum Clean	
Lead	
Stainless	
Radiators	
Battery	

TOTAL AMOUNT:

if
N
va
Th
all
tSh
Perma
R
POLY

Weigher _____ Customer Don Ellis

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The proposed "Technical Requirements for Site Remediation" rules, which appeared in the May 4, 1992 New Jersey Register, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

	Check if Complete
1. Cover Page, Title Page listing Lab Certification #, facility name & address, & date of report	<u>✓</u>
2. Table of Contents	<u>NA</u>
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds	<u>NA</u>
4. Summary Table cross-referencing field ID #'s vs. Lab ID #'s	<u>✓</u>
5. Document bound, paginated and legible	<u>NA</u>
6. Chain of Custody	<u>✓</u>
7. Methodology Summary	<u>NA</u>
8. Laboratory Chronicle and Holding Time Check	<u>✓</u>
9. Results submitted on a dry weight basis (if applicable)	<u>✓</u>
10. Method Detection Limits	<u>✓</u>
11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP	<u>✓</u>
12. Non-Conformance Summary	<u>✓</u>

Ch. Gray 2056
 Laboratory Manager of Environmental Consultant's Signature

2-17-94
 Date

NA - only TPHC Results Submitted, Information NOT Required.

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

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

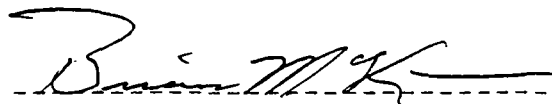
Lab. ID #: 1293.1-.11
 Sample Rec'd: 10/19/93
 Analysis Start: 10/20/93
 Analysis Comp: 10/20/93

Analysis: 418.1 (TPH)
 Matrix: Soil
 Analyst: B. McKee
 Ext. Method: SONC.

NJDEPE UST Reg.#: 0081533-011
 TMS #:
 NJDEPE Case #:
 Location #: 208-8

Lab ID.	Description	%Solid	Result (mg/Kg)	MDL
1293.1	B-1 hNu= 3	81	2650.	20.
1293.2	B-2 hNu= 9	83	521.	20.
1293.3	B-3 hNu= 2	83	300.	20.
1293.4	B-3 Dup. hNu= 2	80	67.9	20.
1293.5	B-4 hNu= ND	87	8.7	6.6
1293.6	B-5 hNu= 4	85	1060.	20.
1293.7	B-6 hNu= 1	80	120.	6.6
1293.8	B-7 hNu= ND	86	185.	6.6
1293.9	L-1 hNu= ND	83	338.	6.6
1293.10	L-2 hNu= ND	85	182.	6.6
1293.11	L-3 hNu= ND	91	24.5	6.6
M. Bl.	Method Blank	100	ND	3.3

Notes: ND = Not Detected, MDL = Method Detection Limit
 * = Silica Gel Added



Brian K. McKee
 Laboratory Director

P.O. #: _____

Chain of Custody

Project #:	Sampler: <i>Dale, Brian</i>	Date / Time: <i>10/19/93 1730</i>	Analysis Parameters	Start:
Customer: <i>DEM</i>	Site Name: <i>208B</i>			Finish:
Phone:				Preservation Method

Lab Sample ID Number	Date/Time	Customer Sample Location/ID Number	Sample Matrix	# of Bottles	TPH	VOH	Analysis Parameters	Remarks
<i>1293-1</i>	<i>10/19/93 1700</i>	<i>208-B-1 hNS=3</i>	<i>Soil</i>	<i>2</i>	<i>X</i>	<i>X</i>		
<i>.2</i>	<i>1702</i>	<i>208-B-2 hNS=9</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.3</i>	<i>1705</i>	<i>208-B-3 hNS=2</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.4</i>	<i>1705</i>	<i>208-B-3D up hNS=2</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.5</i>	<i>1708</i>	<i>208-B-4 hNS=ND</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.6</i>	<i>1710</i>	<i>208-B-5 hNS=4</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.7</i>	<i>1715</i>	<i>208-B-6 hNS=1</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.8</i>	<i>1717</i>	<i>208-B-7 hNS=ND</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.9</i>	<i>1725</i>	<i>208-L-1 hNS=ND</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.10</i>	<i>1727</i>	<i>208-L-2 hNS=ND</i>		<i>2</i>	<i>X</i>	<i>X</i>		
<i>.11</i>	<i>1736</i>	<i>208-L-3 hNS=ND</i>		<i>2</i>	<i>X</i>	<i>X</i>		

*- 2-16-94 - C. Appley
- note: VOH Samples
were not analyzed
Additional Evacuation
was performed by
Contractor.*

Relinquished By (signature)	Date / Time	Received By (signature)	Shipped By:
Relinquished By (signature)	Date / Time	Received for Lab by (signature): <i>Brian MK</i>	Date / Time: <i>10/19/93 1945</i>

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

10-20-93

B.7714

	F_{2001}	$R = .9998$
	<u>33.75</u>	112
	<u>67.5</u>	212
	<u>135</u>	430

2 CM/M 500 MV=CAL-0

1293.11 12mV

1293.10 75mV

1293.9 135mV

1 Wash

1293.88 77mV

1293.8 47mV

1293.6 144mV

1293.5 5mV

1293.4 10mV

1293.3 41mV

1293.2 70mV

1293.1 342mV

| Blank

100-6970-00

100-6970-00

PHC Conformance/Non-conformance Summary Report

No Yes

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

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

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

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


5. Extraction holding time met. (If not met, list number of days exceeded for each sample)

6. Analysis holding time met. (If not met, list number of days exceeded for each sample)

Comments:

Laboratory Authentication Statement

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



Brian K. McKee
Laboratory Manager

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

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

Lab. ID #: 1295.1-.3
 Sample Rec'd: 10/22/93
 Analysis Start: 10/25/93
 Analysis Comp: 10/25/93

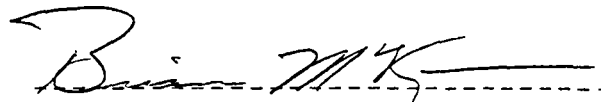
Analysis: 418.1 (TPH)
 Matrix: Soil
 Analyst: S. Hubbard
 Ext. Meth: Sonc.

NJDEPE UST Reg. #: 0081533-211
 TMS #:
 NJDEPE Case #:
 Location #: 208-B

Lab ID.	Description	%Solid	Result (mg/Kg)	MDL
1295.1	Site A, 3-3.5', ova= 6.0	85	63.6	33.
1295.2	Site B, Dup. of A ova= 6.0	84	381.	33.
1295.3	Site C, 3-3.5', ova= 80.0	.84	43.9	33.
M. Bl.	Method Blank	100	ND	3.3

Notes: ND = Not Detected, MDL = Method Detection Limit
 * = Silica Gel Added

1295.2 Spike = 91%, 1295.2 Spike Dup. = 101%, RPD = 91% ⁵⁸ ^{84m}



Brian K. McKee
 Laboratory Director

P.O. #: _____

Chain of Custody

Project #:	Sampler: <i>Sub S. C. Appleby</i> <i>Cute. - Cont. 2056</i>	Date / Time <i>10/22/93 1500</i>	Analysis Parameters	Start:
Customer: <i>Charles Appleby DPW</i>	Site Name: <i>Bldg. 208B</i> <i>UST Closure</i> <i>To be Reg. - Int.</i>			Finish:
Phone: <i>X 262274</i>				Preservation Method

Lab Sample ID Number	Date/Time		Customer Sample Location/ID Number	Sample Matrix	# of Bottles	Analysis Parameters						Remarks	
						TTHC	% Solids	Monrel					OVA-Reading
<i>1295.01</i>	<i>10/22/93</i>	<i>1529</i>	<i>Site A - 3'-3.5'</i>	<i>B Soil</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>6.0</i>	
<i>0.2</i>	<i>↓</i>	<i>1530</i>	<i>Site B - Dipe A</i>	<i>Soil</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>6.0</i>	
<i>0.3</i>	<i>↓</i>	<i>1544</i>	<i>Site C - 3'-3.5'</i>	<i>Soil</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>				<i>80.0</i>	
													<i>Sample Kept 4°C</i>
													<i>OVA - 52114 cal @ 9.5 ppm</i> <i>methane = 96 ppm. CX</i>

Relinquished By (signature) <i>[Signature]</i>	Date / Time <i>10/22/93 1710</i>	Received By (signature)	Shipped By: <i>Hand to Lab F Pig.</i>
Relinquished By (signature)	Date / Time	Received for Lab by (signature):	Date / Time

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

October 25, 1993 Sarah ~~Huber~~

Blank 0 mV 1340

33.75 101 MV

67.5 214 MV

135 425 MV

1295.1 15 MV

1295.2 Dup 99 MV

1295.2 Spk 106 MV

1295.2 Sup Spk 116 MV

1295.3 10 MV

1291.1 82 MV

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.

N/A

5. Extraction holding time met. (If not met, list number of days exceeded for each sample)

✓

6. Analysis holding time met. (If not met, list number of days exceeded for each sample)

✓

Comments:

Laboratory Authentication Statement

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

Brian K. McKee

Brian K. McKee
Laboratory Manager

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

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

Lab. ID #: 1295.1-.3
Sample Rec'd: 10/22/93
Analysis Start: 10/25/93
Analysis Comp: 10/25/93

Analysis: Munsel

Lab ID#	Soil Color
1295.1	2.5Y 4/4 Olive Brown
1295.2	2.5Y 4/4 Olive Brown
1295.3	5Y 4/3 Olive

Brian K. McKee
Laboratory Director

11/8/93 1:05 PM



UST# _____
Date Rec'd _____
TMS# _____
Staff _____

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

CN 028
Trenton, NJ 08625-0028
Tel. # 609-984-3156
Fax. # 609-292-5604

Scott A. Weiner
Commissioner

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 2-17-94

0081533
FACILITY REGISTRATION #

I. FACILITY NAME AND ADDRESS

U.S. ARMY Fort Monmouth
MAIN POST WEST
Fort Monmouth County MONMOUTH
Telephone No. (908) 532-6224

OWNER'S NAME AND ADDRESS, if different from above

U.S. ARMY
DEH Bldg. 1167
Fort Monmouth NJ 07703
Telephone No. (908) 532-6224

II. DISCHARGE REPORTING REQUIREMENTS

- A. Was contamination found? Yes No If Yes, Case No. 93-10-21-1913-44
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- B. The substance(s) discharged was(were) #2 Fuel Oil
- C. Have any vapor hazards been mitigated? Yes No N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure Approval No. C-93-2614

Adjunct UST
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 sub-surface 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)

1. Were soil samples taken from the excavation as prescribed? Yes No N/A
2. Were soil borings taken at the tank system closure site as prescribed? Yes No N/A
3. 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 - ONE scheduled

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 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. NA ppb total BTEX, NA ppb total non-targeted VOC
2. NA ppb total B/N, NA ppb total non-targeted B/N
3. S&I ppm TPHC AFTER EXCAVATION
4. _____ ppb _____ (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 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: MW NOT YET INSTALLED
1. NA ppb total BTEX, NA ppb total non-targeted VOC
2. NA ppb total B/N, NA ppb total non-targeted B/N
3. NA ppb total MTBE, NA ppb total TBA
4. NA ppb NA (for non-petroleum substance)
5. greatest thickness of separate phase product found NA
6. separate phase product has been delineated Yes No N/A

C. Result(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 0.

POTABLE

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 NA 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 NA feet from the source and its screening begins at a depth of NA 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) is NA feet below grade. This well is located NA 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 NA feet from the source. This well is NA feet deep and screening begins at a depth of NA 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) Charles M. Appleby SIGNATURE [Signature]

COMPANY NAME U.S. Army DATE 2-17-94
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION NJDEPE CERTIFICATION NUMBER 2056

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) Nancy Williams SIGNATURE to be obtained
COMPANY NAME Cleaning UP the Environ. DATE _____
(Performer of Tank Decommissioning)

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

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)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 penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) Mr. James Ott SIGNATURE [Signature]
COMPANY NAME Acting Director of Public Works DATE 2/17/97

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

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 _____

UNDERGROUND STORAGE TANK
SITE ASSESSMENT SUMMARY
"NO" OR "NA"
EXPLANATIONS

NJDEPE FACILITY ID#: 0081533

UST#: 211

US ARMY SUBSURFACE EVALUATOR: CHARLES APPLEBY

NJDEPE CERTIFICATION NUMBER: 2056

REMOVAL CONTRACTOR: CUTE INC.

- II. B. Have any vapor hazards been mitigated? NA.
no areas of #2 Fuel Oil vapor migration exist
- IV. C. Were soil borings taken at the tank excavation as prescribed?
no soil borings were required
- D. Ground Water Monitoring
ground water monitoring is currently scheduled
- V. C. 2. Free product contaminated soils are suspected to exist below the water table?
No. free product was observed within the excavation and removed at the time
of UST removal
3. Free product contaminated soils are suspected to exist off the property
boundaries?
No. The Army owns the surrounding properties and is bordered by water in
the area of this site.
- VI. B. The monitoring well has not yet been installed.
- C. Well Search: No potable wells have been identified in the area of the UST site.
- E. A plan for the separate phase product recovery has been included. NO
No separate phase product has been identified.
- G. Delineation of contamination
No contamination has been found to delineate.

ATTACHMENT #1
 BUREAU OF UNDERGROUND STORAGE TANKS
 ADMINISTRATIVE CHECKLIST FOR REMEDIAL ACTION WORKPLANS

Facility Name: 0081533 - 211, Bldg. 208B

Case #: 93-10-21-1913-44

UST #: 211

General

Check one: yes no n/a

1. Table of Contents

Environmental Setting

1. USGS topographic map

2. Scaled site map w/ all site features

3. Background conditions summary, including discussion on all potential receptors, source mitigation, etc.

4. Sampling summary, including all sample locations on a scaled site map and tabular presentation

5. Soil remediation plan

a. Active remediation proposal

b. Alternative technology

c. Post-remedial sampling

d. Cleanup goals (compound specific)

e. Soil disposal/soil re-use plan

f. Permit requirements/applications

6. Ground water remediation plan

a. Plume delineated

b. Wells properly constructed

c. Flow direction defined

d. Monitoring only proposal

e. Product removal proposal

f. Cleanup goals (compound specific)

g. Alternative technology

h. System specifications

U.S. Army
DEH Bldg. 167
SELFM-PW-EV
Fort Monmouth, NJ 07703

Date: 16, FEBRUARY 1994
Building #: 208-B
NJDEPE UST Reg. #:0081533-211
NJDEPE CASE # 93-10-21-1913-44

UNDERGROUND STORAGE TANK
ADMINISTRATIVE CHECKLIST FOR REMEDIAL ACTION WORKPLANS
"NO" OR "NA"
EXPLANATIONS

NJDEPE FACILITY ID#: 0081533

UST#: 211

US ARMY SUBSURFACE EVALUATOR: CHARLES APPLEBY

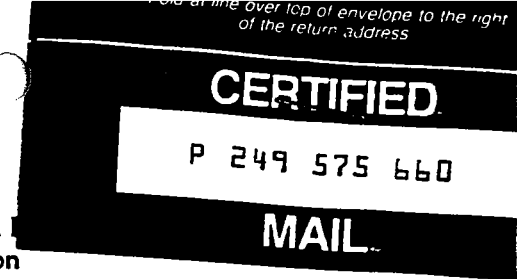
NJDEPE CERTIFICATION NUMBER: 2056

REMOVAL CONTRACTOR: CUTE INC.

1. USGS TOPOGRAPHIC MAP : N/A, i HAVE INCLUDED SCALED PHOTO PLANS AND A SCALED CONTOUR MAP WHICH SHOULD BE MORE INFORMATIVE THAN THE USGS TOPOGRAPHIC MAP.
5.
 - a. ACTIVE REMEDIATION PROPOSAL: N/A, SOIL CONTAMINANTS ARE BELOW REGULATORY CONCERN
 - b. ALTERNATIVE TECHNOLOGY: N/A, NO NEED TO REMEDIATE SOILS AT THIS TIME
 - d. CLEANUP GOALS: N/A, NO NEED TO REMEDIATE SOILS AT THIS TIME
6. GROUNDWATER REMEDIATION PLAN: GENERAL RESPONSE TO A - L, A MONITORING WELL IS SCHEDULED FOR INSTALLATION AND ANALYSIS IN MARCH OF 1994
8. SITE RESTORATION PLAN: N/A, AREAS NEEDING RESTORATION HAVE NOT YET BEEN IDENTIFIED
- 9 SCHEDULE OF IMPLEMENTATION: N/A, ONCE THE AREAS OF CONCERN HAVE BEEN IDENTIFIED THEY WILL BE ADDRESSED
10. COST ESTIMATE: NO, THE COST ESTIMATE WILL BE PROVIDED AFTER CURRENT ACTIVITIES HAVE BEEN INVOICED TO THE GOVERNMENT.
11. SITE SPECIFIC HASP: N/A, THE SITE SPECIFIC HEALTH AND SAFETY PLANS ARE PROVIDED BY THE CONTRACTOR PERFORMING THE WORK AND ARE ON FILE AT THE DPW ENVIRONMENTAL OFFICE AND THE FORT MONMOUTH GARRISON SAFETY OFFICE



State of New Jersey
Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
CN 028
Trenton, NJ 08625-0028



Jeanne M. Fox
Acting Commissioner

NOV 23 1993

Karl J. Delaney
Director

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Charles Appleby
The United States Army
Building 167 DPW
Fort Monmouth, New Jersey 07703

Re: Discharge from Underground Storage Tank System
The United States Army
Building 208B
Fort Monmouth, Monmouth County
Case #93-10-21-1913-44

Dear Sirs:

On October 21, 1993, the New Jersey Department of Environmental Protection and Energy (NJDEPE) received notification of a discharge of hazardous substances from an underground storage tank at the above referenced facility which is regulated pursuant to the Underground Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21 et seq.). Suspected soil contamination found during the removal of one (1) 4,000 gallon unregistered #2 heating oil underground storage tank (UST).

REPORTING REQUIREMENTS

A written Remedial Investigation (RI) Report shall be submitted to the Bureau of Applicability and Compliance (BAC) on or before February 18, 1994, specifying all activities conducted in compliance with the requirements listed in this letter. To facilitate processing, please reference the case number (discharge notification number), the Closure Approval number (if applicable) and the UST registration number in the report.

All data submitted shall conform to the "Reduced Laboratory Deliverables Format" consistent with the guidance contained in the rule "Technical Requirements for Site Remediation", N.J.A.C. 7:26E (use the enclosed quality assurance checklists). If Site Investigation (SI) information has not been submitted, it should be submitted with the RI Report. A Site Investigation Summary Sheet shall be included with the report. Based upon the conclusions presented in the RI Report, a next phase proposal shall be provided (an RI Addendum for further delineation, a Remedial Action Workplan addressing contamination or a proposal for no further action due to lack of contamination). Upon review of the RI Report and next phase proposal, the NJDEPE will notify The United States Army, Bldg 208B of any further requirements.

In addition, the following are also required if not already completed:

- the NJDEPE's Environmental Action Hot Line (609) 292-7172 and the local health department shall be immediately notified of the discharge;
- the NJDEPE and the local health department shall be immediately notified if any public or private wells are contaminated or of any other potential health risks exist (basements, surface water, subsurface utilities, etc.); and,
- the NJDEPE and local fire and health departments shall be immediately notified if any vapors or other fire hazards are present.

REGISTRATION REQUIREMENTS

A cursory review of our registration files indicates no registration information for the above referenced facility. If The United States Army, Bldg 208B has not yet registered the tanks, please complete the enclosed form and return immediately. If The United States Army, Bldg 208B has registered the tank in question, advise this office of the registration number.

CLOSURE REQUIREMENTS

In accordance with the Regulations Implementing the New Jersey Underground Storage of Hazardous Substances Act, specifically N.J.A.C. 7:14B-9, a Closure Approval must be obtained from the Bureau of Underground Storage Tanks (BUST) prior to initiating the closure of any Underground Storage Tank System. If The United States Army, Bldg 208B intends or is required to close the UST(s) referenced above, an Underground Storage Tank Closure Approval Application (CPAA) must be submitted at least 30 days prior to initiating the closure of any regulated UST system. The following information shall accompany the closure application:

- Tank Decommissioning Plan
- Site Investigation Plan
- Implementation Schedule for proposed activities
- Site map drawn to scale

Once you have obtained a Closure Approval, a demolition permit authorized by the NJDEPE of Community Affairs (DCA), Construction Code Element must be procured from the local construction code official. Any work that is conducted at a site requires a demolition permit issued pursuant to N.J.A.C. 5:23 et seq. For further information in obtaining a demolition permit, please contact the local construction code official directly, or DCA's Code Assistance Unit at (609) 530-8793.

TECHNICAL REQUIREMENTS

The "Technical Requirements for Site Remediation" rules (N.J.A.C. 7:26E) appeared in the June 7, 1993 New Jersey Register and became effective on July 1, 1993. These rules contain the minimum technical requirements concerning the environmental investigation and remediation at contaminated sites or sites at which contamination is suspected or confirmed. These rules are being used as the NJDEPE's primary technical document, replacing the Division of Responsible Party Site Remediation's Remedial Investigation Guide, the ECRA Cleanup Plan Guide, BUST's Scope of Work document (and appendices) and BUST's Technical Guidance Document. A copy of these rules can be obtained from your local library or through the Office of Administrative Law Publications at (609) 588-6606.

These rules should be utilized in the implementation of a Remedial Investigation (RI) and the preparation of an RI Report. The RI Report should replace the Discharge Investigation and Corrective Action Report (DICAR) which was previously requested by BUST. The purpose of the RI is to: a) characterize and delineate the full extent of all soil and ground water contamination noted during the Preliminary Assessment (PA) and Site Investigation (SI) phase; b) determine the general surface and subsurface conditions; c) determine migration paths and actual/potential receptors; and d) analyze all information for the selection of the remedial action alternative.

Pursuant to N.J.A.C. 7:26E-5 et seq., The United States Army, Bldg 208B shall conduct a remedial alternative analysis and submit a remedial alternative analysis report unless the contaminated media is recycled or one of the following remedies is implemented: a) an on-site permanent remedy; or b) an offsite permanent remedy when the total volume of contaminated media taken offsite from the entire site, not just the individual area of concern, is less than 100 cubic yards. The methodology to be followed and the information to be included in the remedial alternative analysis report are detailed in N.J.A.C. 7:26E-5.

It should be noted that technical requirements are included in subchapters 7, 8 and 9 of the regulations implementing the Underground Storage of Hazardous Substances Act (N.J.A.C. 7:14B-1-13 and 15). The responsible person(s) that is/are conducting an environmental investigation/remediation should follow the "Technical Requirements for Site Remediation" to accomplish the investigation. This will allow for consistent evaluation of any discharges and potential impacts to the environment.

CLEANUP CRITERIA

The NJDEPE's most recent general guidance on contaminant cleanup criteria can be found in the April, 1993 edition of the "Site Remediation Newsletter" (a copy can be obtained from the Industrial Site Evaluation Element at (609) 984-3156. It must be remembered, however, that the actual cleanup goal at a particular site is determined by the NJDEPE on a case-by-case basis and may be different than that in the above referenced newsletter. This variation may be due to many factors, including, site specific human health and environmental exposure pathways, the presence of site contaminants not addressed in the newsletter, and site specific physical characteristics. In case specific situations, when the cleanup criteria is modified from one previously established for that specific site, the NJDEPE will make every effort to expeditiously notify the responsible party. Please consult the Case Manager listed below to discuss any modifications which may impact upon your remedial actions.

If the person conducting a cleanup does not wish to remediate a contaminated site consistent with the newsletter, they shall submit a proposal to the Case Manager listed below that details the site specific circumstances and technical rationale for cleanup goals on a case-by-case basis.

Please note that the Ground Water Quality Standards (N.J.A.C. 7:9- 6) have been adopted and appeared in the February 1, 1993 New Jersey Register. This rule adoption may impact upon the requirements for ground water remediation and soil cleanup (i.e. where the soil may contribute contaminants to the ground water above the applicable standards) for a particular site and should be referenced and discussed with the Case Manager listed below.

CERTIFICATION REQUIREMENTS

Effective April 25, 1992, all persons performing tank services must be certified per N.J.S.A. 58:10A-24.1-8. All work related to any tank service shall now be conducted

by, or under the immediate on site supervision of an individual certified in the activity being conducted. All documents (tank closure and permit applications, reports, proposals) submitted to the NJDEPE shall be prepared and signed by an appropriately certified individual.

COSTS

After remediation of the soil and ground water has been completed, the responsible party is requested to submit the total capital costs involved in performing and confirming a cleanup as well as the costs associated with the proper disposal of all wastes generated during the cleanup. Costs to be reported include monitoring systems, equipment and mobilization costs; operational and maintenance costs, including all labor, utilities and repairs; consulting, labor, and sampling costs; all disposal costs, including transport, waste transfer and facility tipping fees; and regulatory review fees.

COMPLIANCE


If The United States Army, Bldg 208B fails to submit the required report within the referenced due date, this case will be referred to the Compliance Monitoring Section of the Bureau of Applicability and Compliance (BAC) for review. The NJDEPE may initiate enforcement action including, but not limited to, the assessment of penalties and revocation of tank operating registrations pursuant to N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B-12. The NJDEPE reserves the right to implement all enforcement measures, including the right to revoke tank operating registrations and assess penalties from the original due date.

If the tank at the referenced facility is regulated under the federal Hazardous and Solid Waste Amendments of 1984 and The United States Army, Bldg 208B fails to comply with the above requirements, this case may be referred to the United States Environmental Protection Agency (USEPA) for violations of 40 CFR Part 280.

Please note, pursuant to N.J.S.A. 58:10A-21 et seq. and N.J.A.C. 7:14B et seq., the owner and operator of the regulated underground storage tanks are strictly liable for compliance with these requirements. Violators are liable for penalties of up to \$50,000 per day for each day of continuing violation and revocation of tank registrations.

If you should have any questions regarding this matter, please contact Janice DiClaudio, Case Manager, of the Bureau of Applicability and Compliance at (609) 984-3156.

Sincerely,

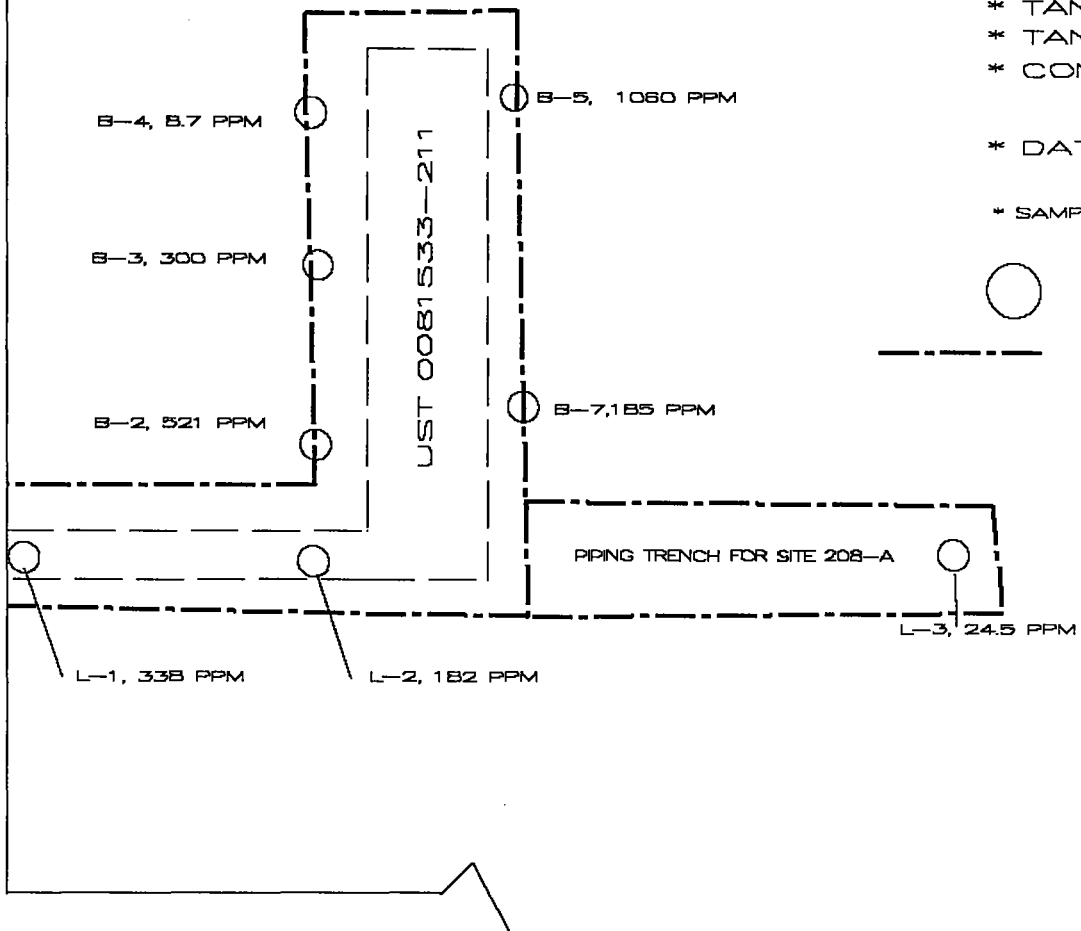

Mike Tompkins, Section Chief
Bureau of Applicability and Compliance

Enclosures:

**Registration Package
Laboratory Deliverables Checklist
Management of Excavated Soils**

**c: Lester W. Jargowsky, Monmouth County Health Department
Janice DiClaudio, Bureau of Applicability and Compliance**

BUILDING 208 UST SITE B



BUILDING 208B

- * TANK #: 0081533-211
- * TANK SIZE: 4,000 GAL
- * CONTENTS: #2 FUEL OIL

- * DATE REMOVED: 10-19-93
- * SAMPLE DEPTH 3 - 3.5 FT BELOW GRADE



SCALE
1" = 8'

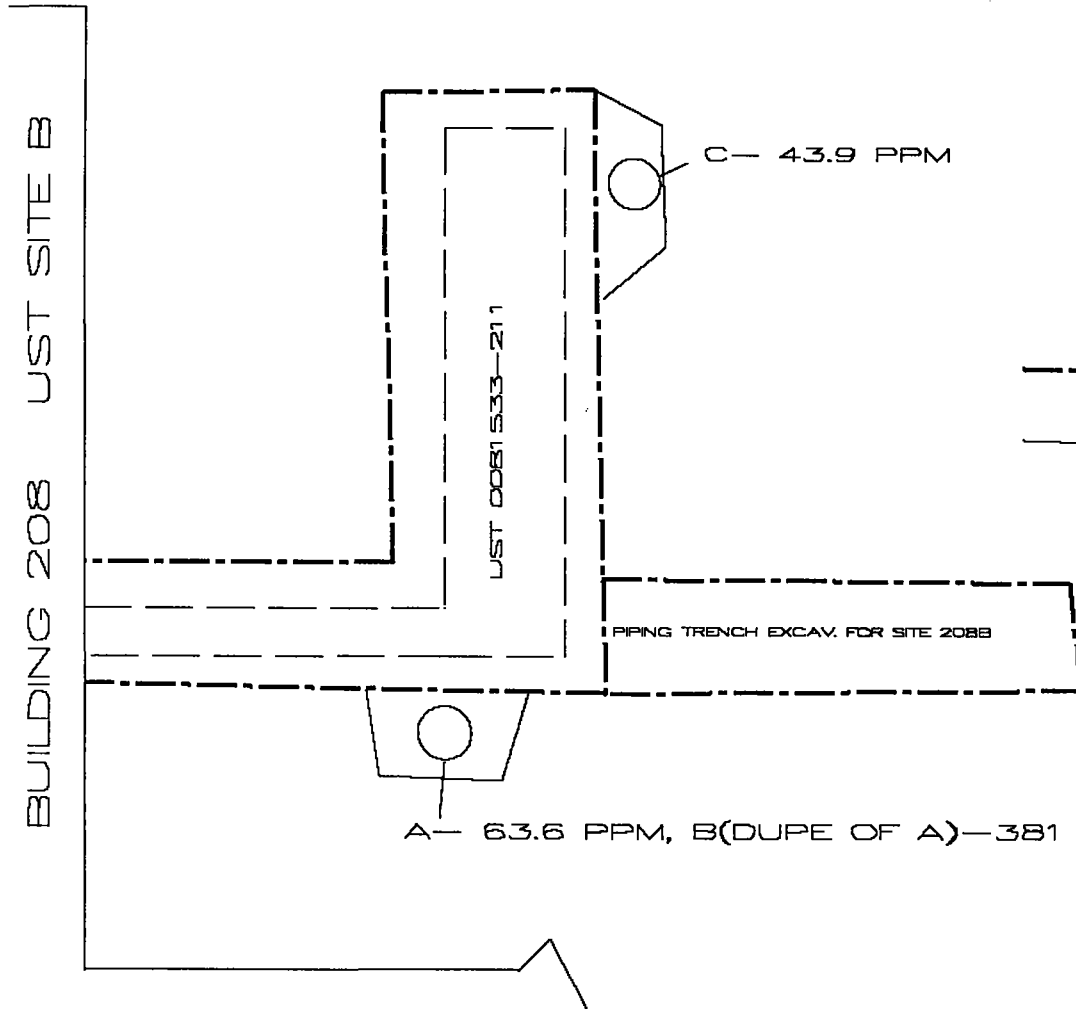
FIGURE 4

BUILDING 208B

- * TANK #: 0081533-211
- * TANK SIZE: 4,000 GAL
- * CONTENTS: #2 FUEL OIL

* DATE REMOVED: 10-19-93

* SAMPLE DEPTH 3 - 3.5 FT BELOW GRADE



- TOTAL PETROLEUM HYDROCARBON SAMPLE SITE
- - - EXCAVATION PERIMETER 10-19-93
- EXCAVATION PERIMETER 10-22-93

SCALE
1": 8'

FIGURE 5