

Underground Storage Tank Closure Report

Prepared for:

U.S. Army Corps of Engineers
New York District
1900 Hempstead Turnpike, Suite 316
East Meadow, New York 11554

Site:

Building No. 235
UST No. 235-1
Sievers-Sandberg United States Army Reserve Center
Pedricktown, New Jersey

Prepared by:

Earth Tech, Inc.
2229 Tomlynn Street
Richmond, Virginia 23230

July 28, 1997

Contract No. DACW31-95-D-0097
Delivery Order No. 0015

ET Job No. 21574

Client: United States Army Corps of Engineers
Project Name: Sievers-Sandberg United States Army Reserve Center, Building 235
ET Job No.: 21574

This document has been reviewed for technical content and quality, clarity, and style in accordance with the internal QA/QC procedures of Earth Tech, Inc.

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EXECUTIVE SUMMARY

This report details the clean closure of an underground storage tank (UST) and fulfills the requirements of site investigation reporting activities as detailed in the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for site remediation (NJAC 7:26E - 3.10).

Earth Tech, Inc. (Earth Tech) was contracted by the U.S. Army Corps of Engineers (USACE), Baltimore District, to remove a 1,000-gallon UST located southwest of Building No. 235 at the Sievers-Sandberg United States Army Reserve Center (USARC) in Pedricktown, New Jersey. The work was conducted under Contract No. DACW31-95-D-0097, Delivery Order No. 0015.

Prior to tank closure, Earth Tech removed 1,000 gallons of No. 2 heating fuel from the tank. Closure of the UST was conducted on May 13, 1997. The UST was excavated and removed by Earth Tech, a NJDEP-approved UST closure contractor (Registration No. US00537). Upon removal, the condition of the UST was examined by a NJDEP-licensed UST Subsurface Evaluator (License No. US00516). The UST was in good condition with no visible holes. No soil staining was observed beneath the former UST and groundwater was not encountered in the excavation. Earth Tech cut and cleaned the UST, which was then transported to Camden Iron for recycling as scrap. The tank contents were transported by Casie Ecology Oil Salvage, Inc., Vineland, New Jersey, for recycling. The waste generated during tank cleaning activities was drummed and stored on site pending analytical results for disposal.

No soil staining was observed beneath the former base of the UST. Photoionization detector (PID) field screening indicated no volatile organic vapor levels above background for the excavation or the excavated soils. The excavated soils were used as backfill material.

Earth Tech collected four confirmatory soil samples from the excavation base and sidewalls. One of the samples was split and submitted as a duplicate sample. Each sample was submitted for laboratory analysis for the presence and concentration of total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) Method 418.1, using a NJDEP-certified laboratory. Three of the samples and the duplicate sample indicated TPH concentrations below the method detection limit of 40.0 milligrams per kilogram (mg/Kg). One of the samples collected from the excavation sidewall had a TPH concentration of 55.6 mg/Kg, which is below the most stringent NJDEP Soil Cleanup Criteria of 10,000 mg/Kg for total organic compounds in soils. All sampling and analysis was performed in accordance with NJDEP Post-Remedial Action Requirements (NJAC 7:26E - 6.4).

Based on field observations and analytical data, Earth Tech recommends no further action relative to the former UST at Building 235.

1.0 INTRODUCTION

Earth Tech, Inc. (Earth Tech), a NJDEP-approved UST Closure Contractor (Certification No. US00537), was contracted by the United States Army Corps of Engineers (USACE), Baltimore District, to remove underground storage tanks (USTs) at the Sievers-Sandberg United States Army Reserve Center (USARC), Pedricktown, New Jersey, under Contract No. DACW31-95-D-0097, Delivery Order No. 0015. This report details the clean closure of an UST located at Building No. 235 of the Sievers-Sandberg USARC. A Site Location Map is included as Figure 1 in Appendix A. This report fulfills the requirements of site investigation reporting as detailed in the New Jersey Technical Requirements for Site Remediation (NJAC 7:26E-3.10), and provides an overview of the site investigation activities, analytical results, and recommendations.

The Sievers-Sandberg USARC property was acquired by the USACE in 1917, and the Delaware Ordinance Depot was established at Pedricktown in 1918. The depot became the backup storage facility for the Picatinny and Frankfort Arsenals and the Aberdeen Proving Ground. In 1960, the Pedricktown facility became the headquarters for the 42nd and 43rd Artillery, which commanded the Nike Missile Sites in the Philadelphia area. In 1965, the Salem County Technical Institute gained control of the site. In the late 1960s, the 79th Army Reserve Command and the 21st Corps were replaced by the 78th Division of the Army reserves, which is still stationed at the facility. The eastern portion of the property is currently leased by the Salem Community College.

Building No. 235 has been demolished with only the concrete pad remaining at the site. A 1,000-gallon steel UST at the site was formerly used to store diesel fuel (No. 2), for heating the building. The UST was a regulated tank (per NJAC 58:10); therefore, the UST was registered and an UST Closure Plan submitted to the New Jersey Department of Environmental Protection (NJDEP) prior to initiating closure activities. The NJDEP UST Closure Approval is included in Appendix B.

2.0 SITE ASSESSMENT

On May 13, 1997, Earth Tech removed one 1,000-gallon steel UST at the site. Figure 2 in Appendix A shows the general site layout and the location of the UST. Photographic documentation of site activities is included in Appendix C. The UST was oriented parallel to the north side of Building No. 235. No utility lines were located in the vicinity of the UST. Prior to removal, approximately 1,000 gallons of diesel fuel were removed by Casie Ecology Oil Salvage, Inc., Vineland, New Jersey for recycling. A copy of the disposal manifest is included in Appendix D.

Earth Tech personnel screened the UST with a lower explosive limit (LEL) meter. Readings were taken before excavating and cutting the tank for cleaning. The LEL level registered 2 percent prior to excavating and cleaning the UST. Oxygen levels both before excavation and before cleaning were 19.2 percent. The tank was not purged prior to initiating tank closure activities based on the low vapor readings.

Upon tank removal, the UST condition was examined by Mr. Julian Canuso, Jr., a NJDEP-licensed UST Subsurface Evaluator (License No. US00516). The tank was observed in good condition with no visible holes. Product staining was observed on the tank's exterior, but no soil staining was observed in the excavation or along the excavation sidewalls. The UST measured approximately 6 feet long by 5 feet, 4 inches in diameter. Earth Tech personnel cut the UST at both ends to provide ventilation and access for

tank cleaning. The tank was then cleaned using dry methods. The absorbent waste material generated during tank cleaning was drummed on site for disposal pending analytical results. The tank disposal certificate is included in Appendix E.

Earth Tech personnel examined the UST excavation after removing the tank. No piping existed and it is believed to have been removed when the building was demolished. No soil staining was observed beneath the former UST. Groundwater was not encountered in the excavation. No vapor readings were detected with the PID. Based on the PID field screening, no soils were deemed contaminated (i.e., no PID readings greater than 100 parts per million, or ppm).

Confirmatory soil samples were collected in accordance with NJAC 7:26E-6.4. Earth Tech personnel collected a total of four soil samples, two from the bottom of the excavation (PED-B235-1-SS-01 and PED-B235-1-SS-02) and two from the excavation sidewalls (PED-B235-1-SS-03 and PED-B235-1-SS-04). Earth Tech submitted a split sample of PED-B234-1-SS-04 as a duplicate (identified as PED-B235-1-SS-04-D) for quality control purposes. Field screening of each soil sample using the PID indicated no volatile organic vapors. Figure 2 in Appendix A depicts the soil sample locations. Each sample was submitted for laboratory analysis for the presence and concentration of total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) Method 418.1. The samples were analyzed by Toxikon Corporation, a NJDEP-certified laboratory.

Three of the samples and the duplicate sample indicated TPH concentrations below the method detection limit of 40.0 milligrams per kilogram (mg/Kg). One of the samples collected from the excavation sidewall had a TPH concentration of 55.6 mg/Kg. These concentrations are below the most stringent NJDEP Soil Cleanup Criteria of 10,000 mg/Kg for total organic compounds in soil. Soil analytical results are summarized in Table 1. Certificates of analysis and chain-of-custody forms are included as Appendix F. An executed NJDEP Site Inspection Report Checklist is included in Appendix G.

Table 1 Soil Analytical Results

Sample Designation and Location	Date Sampled	Depth (feet)	TPH 418.1 (mg/Kg)	PID (ppm)
PED-B235-1-SS-01 bottom of excavation, eastern end	5/13/97	6	BDL	0.0
PED-B235-1-SS-02 bottom of excavation, western end	5/13/97	6	BDL	0.0
PED-B235-1-SS-03 north sidewall	5/13/97	---	55.6	0.0
PED-B235-1-SS-04 south sidewall	5/13/97	---	BDL	0.0
PED-B235-1-SS-04-D duplicate	5/13/97	--	BDL	0.0
<i>Notes:</i> BDL below detection limit (detection limit = 40.0 mg/Kg) mg/Kg milligrams per kilogram PID photoionization detector ppm parts per million NA not applicable ND not detected				

The stockpiled soil generated during UST removal, along with imported clean backfill was used to backfill the excavation. No soils associated with the UST closure were removed from the site.

3.0 CONCLUSIONS

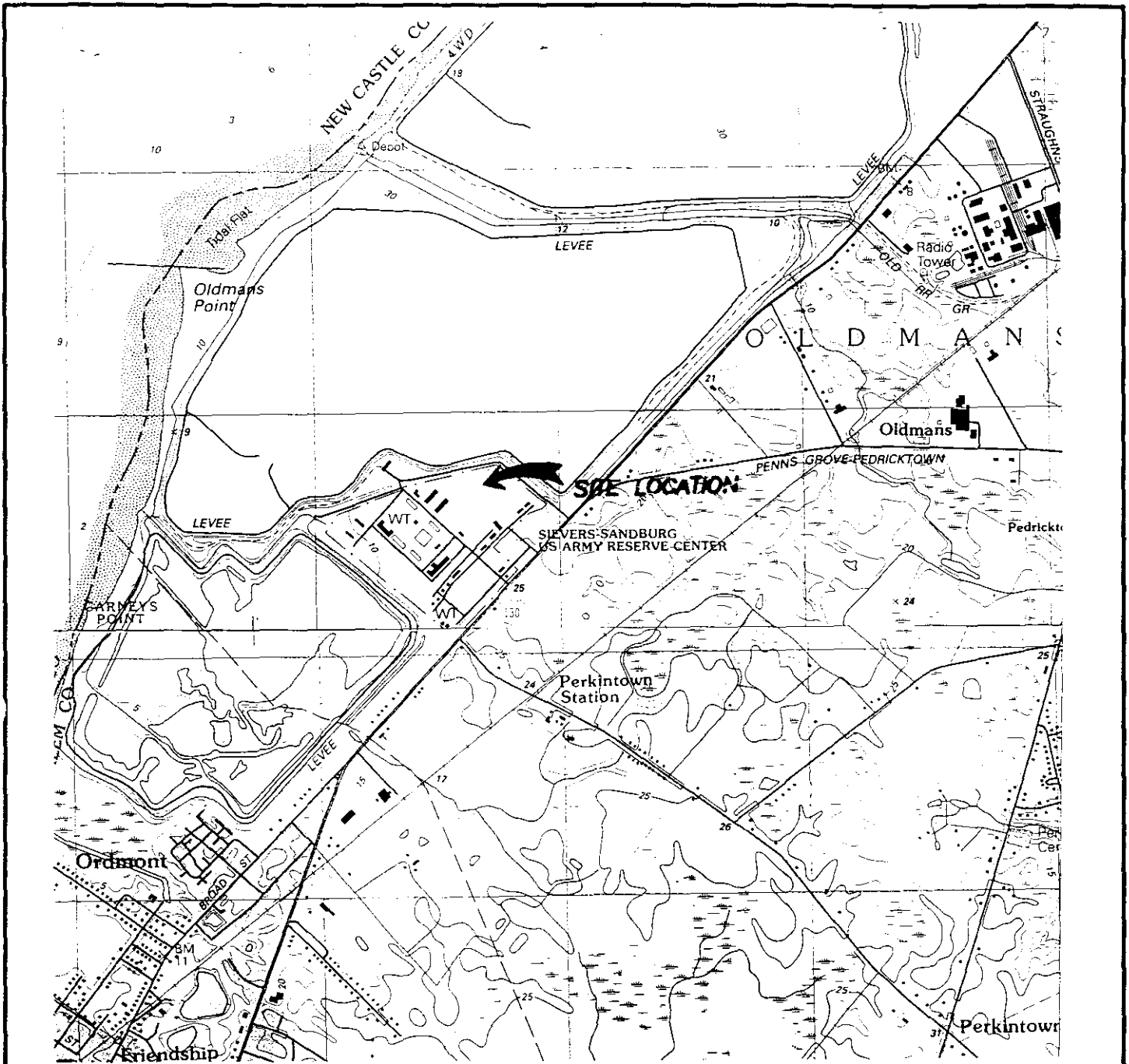
The following is a summary of Earth Tech's site investigation, findings, and tank closure activities for UST No. 235-1 at Building No. 235 on the Sievers-Sandberg USARC:

- Earth Tech removed one 1,000-gallon, steel UST used to store diesel fuel for Building No. 235 at the site on May 13, 1997.
- Approximately 1,000 gallons of product was removed from the tank and transported by Casie Oil Salvage, Inc., Vineland, New Jersey for recycling.
- No visible holes were observed in the tank.
- The cleaned UST was transported to Camden Iron and recycled as scrap.
- Product staining was observed on the tank's exterior, but no stained soils were observed in the tank excavation.
- PID field screening was performed for excavated soils and soil remaining in the excavation. No vapor readings above background were detected.
- Four confirmatory soil samples were collected from the base and walls of the UST excavation. The analytical result of one soil sample collected from the excavation sidewall indicated a TPH concentration of 55.6 mg/Kg, which is below the NJDEP criteria of 10,000 mg/Kg for total organic compounds in soils. The remaining three confirmatory samples, and one duplicate sample, had TPH concentrations below the detection limit of 40.0 mg/Kg.

Based on the site investigation results, Earth Tech recommends no further action relative to the former UST at Building No. 235.

Appendix A

Figures

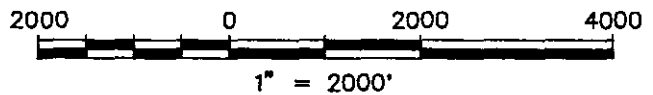


SOURCE:
 U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
 MARCUS HOOK, PA-NJ-DEL 1993
 PHOTOREVISED 1995

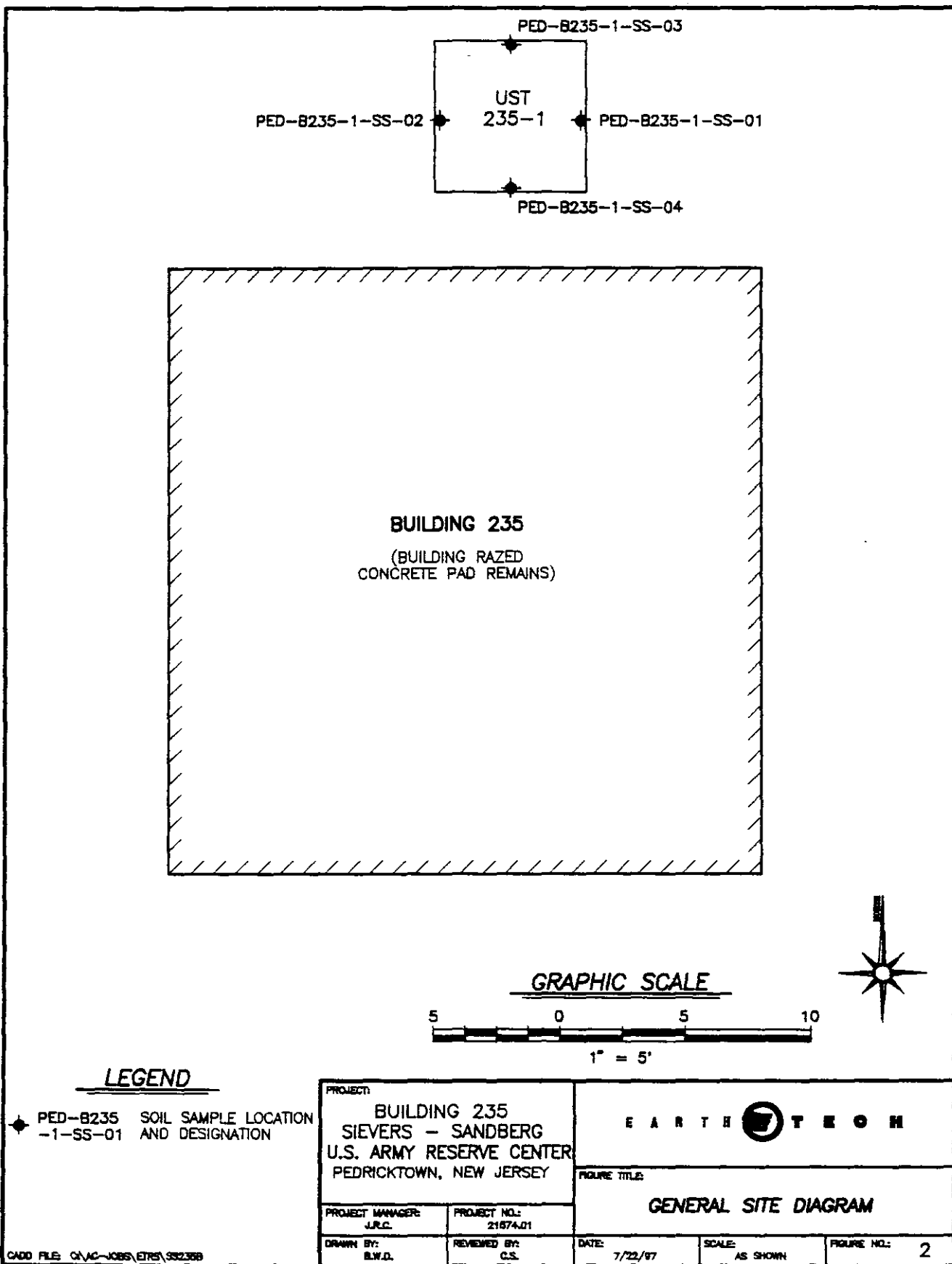
U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
 PENNS GROVE, NJ-DEL 1993
 PHOTOREVISED 1995

CONTOUR INTERVAL = 10 FEET

GRAPHIC SCALE



PROJECT: SEIVERS-SANDBERG U.S. ARMY RESERVE CENTER PEDRICKTOWN, NEW JERSEY		EARTH TECH A <i>tyco</i> INTERNATIONAL LTD. COMPANY	
PROJECT MANAGER: J.R.C.		PROJECT NO.: 21574	
DRAWN BY: B.W.D.		REVIEWER: C.S.S.	
DATE: 6/18/97		SCALE: AS SHOWN	
FIGURE TITLE: SITE LOCATION AND TOPOGRAPHY		FIGURE NO.: 1	



Appendix B

NJDEP UST Closure Approval

2

**UNDERGROUND STORAGE TANK SYSTEM
CLOSURE APPROVAL**

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

**DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
BUREAU OF FIELD OPERATIONS
CN-028, TRENTON, NJ 08625-0028**

TMS #

C97-0177

UST #

0071994

SIEVERS-SANDBERG U.S. ARMY RESERVE CENTER
BLDG 273, ROUTE 130
PEDRICKTOWN

SALEM

**THE ABOVE LISTED FACILITY IS HEREBY GRANTED APPROVAL TO PERFORM
THE FOLLOWING ACTIVITY IN ACCORDANCE WITH N.J.A.C. 7:14b-1 et. seq:**

REMOVAL OF:

PLEASE SEE ATTACHED TABLE

SITE ASSESSMENT: Conduct a site investigation for the UST(s) and appurtenant piping specified in this approval in accordance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E.

The management of any excavated soils must follow the requirements listed in the Attachment enclosed within.

Note: The UNDERGROUND STORAGE TANK SERVICES CERTIFICATION ACT, N.J.S.A. 58:10A-24, requires all services performed on an UST system for the purpose of complying with P.L.1986, c.102 to be performed by or under the immediate on-site supervision of a person certified by the Department for that service. The certified person providing that service must be employed by a business that is also certified by the Department for that service.

CONTACT PERSON:

JANIS CROWDER

TELEPHONE:

804-358-5400

EFFECTIVE DATE:

04/03/97

**THIS FORM MUST BE DISPLAYED AT THE SITE DURING THE APPROVED
ACTIVITY AND MUST BE MADE AVAILABLE FOR INSPECTIONS AT ALL TIMES.**

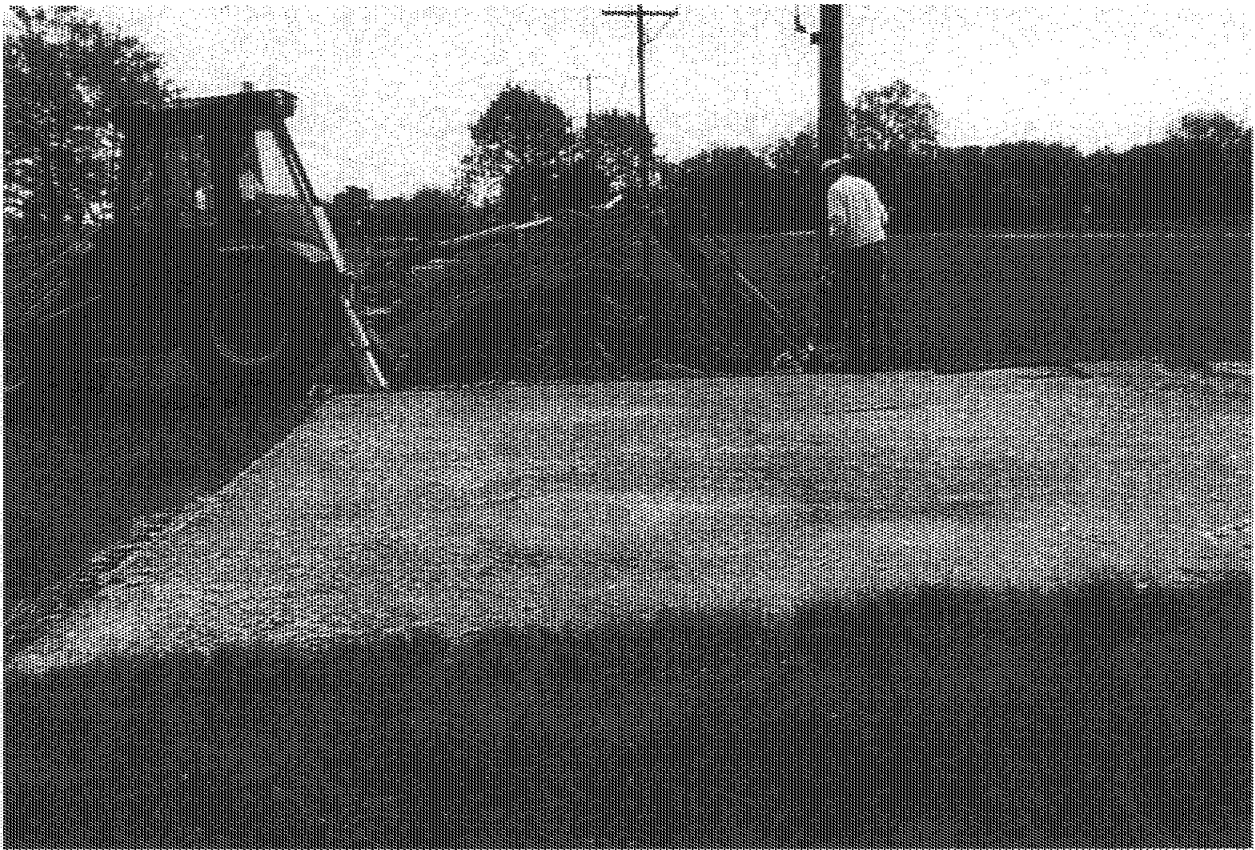
H. R. Patel
Joshua Gradwohl, SUPERVISOR
BUREAU OF FIELD OPERATIONS

(for)

Table 2 Analytical Methods for Verification Samples

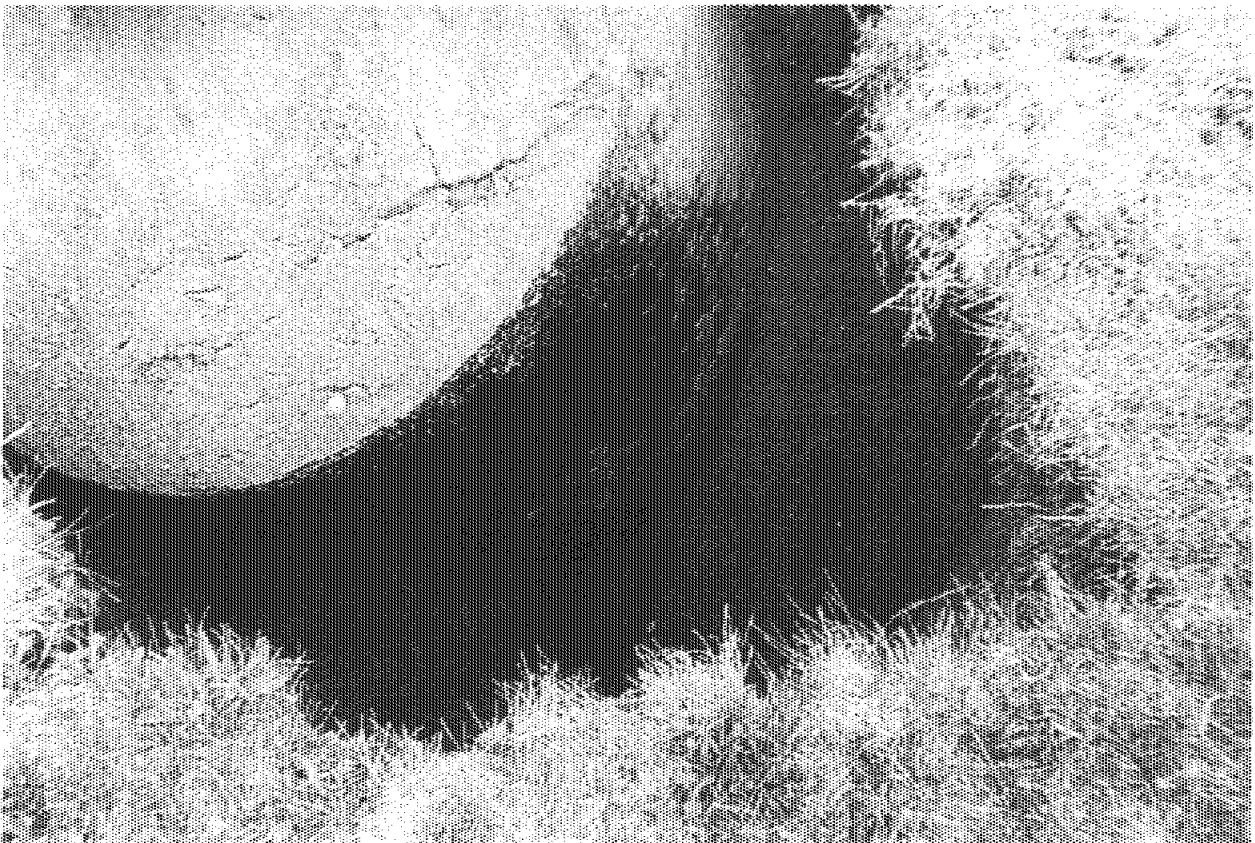
Tank Identification	Tank Size (gallons)	Assumed Tank Length (feet)	Contents	Excavation Sample IDs	Petroleum-Contaminated Stockpile Sample IDs	Analysis	Method	Turnaround Time
413NW	14,000	25	unleaded gasoline	PED-413NW-SS-01 through PED-413NW-SS-07	PED-413NW-SP-01	VO+10*	8260	10 days
413SW	10,000	17	diesel	PED-413SW-SS-01 through PED-413SW-SS-06	PED-413SW-SP-01	TPHC **	418.1	10 days
413W	1,000	10	waste oil	PED-413W-SS-01 through PED-413W-SS-04	PED-413W-SP-01	TPHC***	418.1	10 days
413NE	5,000	24	unleaded gasoline	PED-413NE-SS-01 through PED-413NE-SS-07	PED-413NE-SP-01	VO+10*	8260	10 days
413E	5,000	24	unleaded gasoline	PED-413E-SS-01 through PED-413E-SS-07	PED-413E-SP-01	VO+10*	8260	10 days
413SE	5,000	24	unleaded gasoline	PED-413SE-SS-01 through PED-413SE-SS-07	PED-413SE-SP-01	VO+10*	8260	10 days
404-1	550	6	unleaded gasoline	PED-404.1-SS-01 through PED-404.1-SS-03	PED-404.1-SP-01	VO+10*	8260	10 days
282-1	1,000	10	heating oil	PED-282.1-SS-01 through PED-282.1-SS-04	PED-282.1-SP-01	TPHC **	418.1	10 days
283-1	1,500	9	heating oil	PED-283.1-SS-01 through PED-283.1-SS-04	PED-283.1-SP-01	TPHC **	418.1	10 days
272-1	1,000	10	heating oil	PED-272.1-SS-01 through PED-272.1-SS-04	PED-272.1-SP-01	TPHC **	418.1	10 days
272-2	1,000	10	heating oil	PED-272.2-SS-01 through PED-272.2-SS-04	PED-272.2-SP-01	TPHC **	418.1	10 days
272-3	1,000	10	heating oil	PED-272.3-SS-01 through PED-272.3-SS-04	PED-272.3-SP-01	TPHC **	418.1	10 days
190-1	1,000	10	diesel	PED-190.1-SS-01 through PED-190.1-SS-04	PED-190.1-SP-01	TPHC **	418.1	10 days
220W	1,000	10	heating oil	PED-220W-SS-01 through PED-220W-SS-04	PED-220W-SP-01	TPHC **	418.1	10 days
220SW	1,000	10	heating oil	PED-220SW-SS-01 through PED-220SW-SS-04	PED-220SW-SP-01	TPHC **	418.1	10 days
233-1	1,000	10	diesel	PED-233.1-SS-01 through PED-233.1-SS-04	PED-233.1-SP-01	TPHC **	418.1	10 days
235-1	1,000	10	heating oil	PED-235.1-SS-01 through PED-235.1-SS-04	PED-235.1-SP-01	TPHC **	418.1	10 days
235-2	1,000	10	heating oil	PED-235.2-SS-01 through PED-235.2-SS-04	PED-235.2-SP-01	TPHC **	418.1	10 days
225-1	1,000	10	heating oil	PED-225.1-SS-01 through PED-225.1-SS-04	PED-225.1-SP-01	TPHC **	418.1	10 days
229-1	275	5	unleaded gasoline	PED-229.1-SS-01 through PED-229.1-SS-03	PED-229.1-SP-01	VO+10*	8260	10 days
270-1	275	5	heating oil	PED-270.1-SS-01 through PED-270.1-SS-03	PED-270.1-SP-01	TPHC **	418.1	10 days
426-1	1,000	10	heating oil	PED-426.1-SS-01 through PED-426.1-SS-04	PED-426.1-SP-01	TPHC **	418.1	10 days
468-1	275	5	heating oil	PED-268.1-SS-01 through PED-268.1-SS-03	PED-268.1-SP-01	TPHC **	418.1	10 days
* Analyze sample for lead if UST formerly contained leaded gasoline								
** Analyze sample for VO+10 if TPHC > 1000 ppm								
*** Analyze sample for VO+10, BNs+15, PCBs, and PP-metals if TPHC is detected in the sample								
VO+10 - volatile organic compounds plus 10 peaks including xylenes, target compound list or priority pollutant VO with library search; EPA Method 8260								
TPHC - total petroleum hydrocarbons; EPA Method 418.1								
BNs+15 - based neutral compounds plus 15 peaks by target compound list or priority pollutant list with library search; EPA Method 8270								
PCB - polychlorinated biphenyls; EPA Method 8080								
PP-metals - priority pollutants								
For each tank, collect two soil samples from the bottom of the sidewalls of the excavation, and one soil sample every 5 feet along the center line of the excavation								
Italicized tank sizes are approximate								

Appendix C
Photographic Documentation



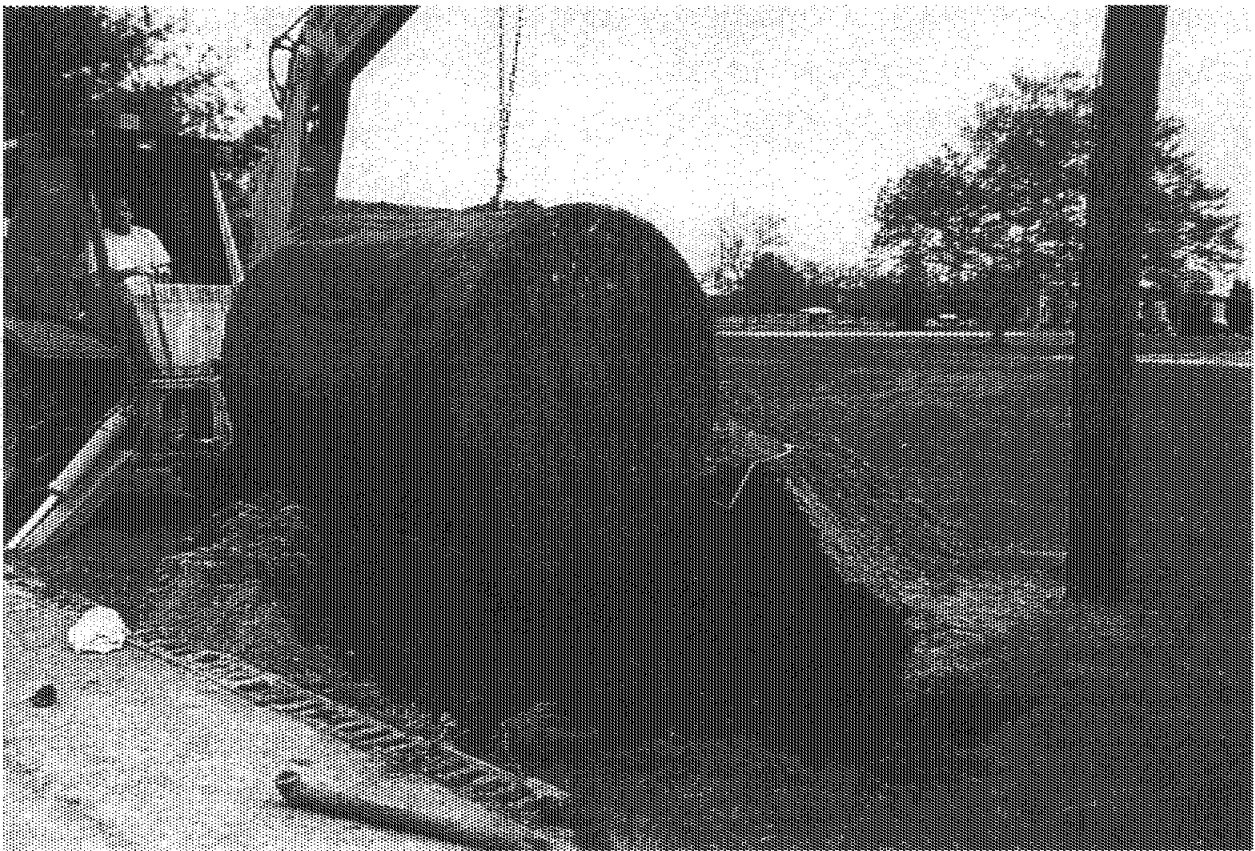
Photograph No.: 1 Contract No.: DACW31-95-D-0097
Project Name: Pedricktown U.S. Army Reserve Center
Photographer: D. Mothershead
Description: Excavation of UST No. 235-1 at Building No. 235.

Earth Tech Job No.: 21574
D.O. 0015
Date: 5/13/97
Direction: North.



Photograph No.: 2 Contract No.: DACW31-95-D-0097
Project Name: Pedricktown U.S. Army Reserve Center
Photographer: D. Mothershead
Description: View of 1,000-gallon UST and excavation at Building No. 235.

Earth Tech Job No.: 21574
D.O. 0015
Date: 5/13/97
Direction: West.



Photograph No.: 3 Contract No.: DACW31-95-D-0097 Earth Tech Job No.: 21574
Project Name: Pedricktown U.S. Army Reserve Center D.O. 0015
Photographer: D. Mothershead Date: 5/13/97
Description: Removal of UST No. 235-1 (1,000-gallons) at Building No. 235. Direction: Northwest.



Photograph No.: 4 Contract No.: DACW31-95-D-0097 Earth Tech Job No.: 21574
Project Name: Pedricktown U.S. Army Reserve Center D.O. 0015
Photographer: D. Mothershead Date: 5/13/97
Description: Excavation after removal of UST No. 235-1 at Building No. 235. Direction: North.



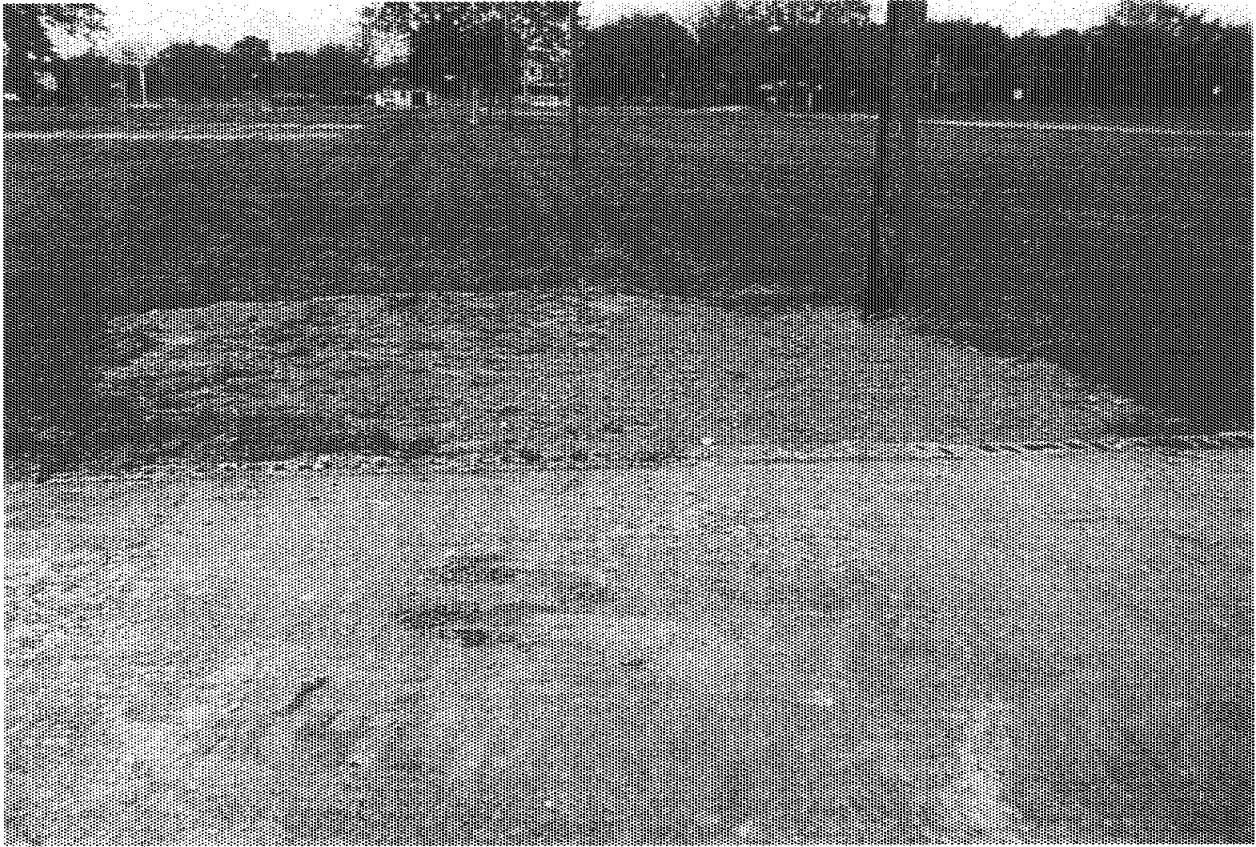
Photograph No.: 5 Contract No.: DACW31-95-D-0097
Project Name: Pedricktown U.S. Army Reserve Center
Photographer: D. Mothershead
Description: Screening of excavated soil at Building No. 235.

Earth Tech Job No.: 21574
D.O. 0015
Date: 5/13/97
Direction: Northwest.



Photograph No.: 6 Contract No.: DACW31-95-D-0097
Project Name: Pedricktown U.S. Army Reserve Center
Photographer: D. Mothershead
Description: Backfilling of tank excavation at Building No. 235.

Earth Tech Job No.: 21574
D.O. 0015
Date: 5/13/97
Direction: North.



Photograph No.: 7 Contract No.: DACW31-95-D-0097
Project Name: Pedricktown U.S. Army Reserve Center
Photographer: D. Mothershead
Description: Site after backfilling completed at Building No. 235.

Earth Tech Job No.: 21574
D.O. 0015
Date: 5/13/97
Direction: North.

Appendix D

Liquid Disposal Manifest

CASIE ECOLOGY OIL SALVAGE, INC.

FACILITY PERMIT NUMBER (0614D1HP05) CERTIFICATE OF RECYCLING / DISPOSAL

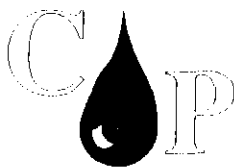
Generator: U.S. Army Corps Engineers

EPA ID#: Not Required

Site: 273 Garrison Road

Address: Pedricktown, NJ 08067

Casie Ecology Oil Salvage, Inc. has accepted petroleum material for recycling, in accordance with all applicable Federal and State regulations.



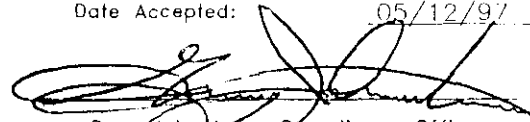
SEAL

CASIE/PROTANK
3209 N. Mill Road
Vineland, NJ 08360
(609) 696-4401

Waste Manifest Number: NH20200 5037

Number of Gallons: 1,097

Date Accepted: 05/12/97


Gary Johnstone, Compliance Officer

CASIE / PROTANK

ENVIRONMENTAL SERVICES

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

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. NH0000011863		2. Page 1 of 3	
3. Generator's Name and Mailing Address U.S. Army Corps of Engineers 273 Garrison Road Pedricktown NJ 08067		6. US EPA ID Number NH0000011863		A. Non-hazardous Manifest Document Number NHZ0200 5037	
4. Generator's Phone (609) 299-2879		7. Transporter 1 Company Name Casie Ecology Oil Salvage, Inc		B. State Generator's ID SAME	
5. Transporter 1 Company Name		8. US EPA ID Number NH0000011863		C. State Trans. ID 02161514	
7. Transporter 2 Company Name		9. Designated Facility Name and Site Address Casie Ecology Oil Salvage, Inc. T/A 3209 N. Mill Rd / Casie Protank Vineland NJ 08360		D. Transporter's Phone (609) 696-4401	
9. Designated Facility Name and Site Address		10. US EPA ID Number NH0000011863		E. State Trans. ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	
		No. Type		14. Unit Wt/Vol	
a. Flammable liquids, n.o.s. (Gasoline) 3, UN1993, PGIII		0 0 1 T T 0 0 0 0 1		G I D 7 2	
b. Combustible Liquid Nos (Waste Fuel oil) NA1993, PGIII		0 0 1 T T 0 0 0 0 1		G I D 7 2	
c.					
d.					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
L, T, I Xoil/sed. Xvtr.		a. LIT 6% oil/sed 94% H₂O		b. Filter Sol	
15. Special Handling Instructions and Additional Information		a. 24 Hr. Emergency Response #609 696-4401 K. Ambrosia NAERG# 128			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.					
Printed/Typed Name Jim Bishop		Signature <i>Jim Bishop</i>		Month Day Year 05/12/97	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Jim Bishop		Signature <i>Jim Bishop</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Pedro Matas		Signature <i>Pedro Matas</i>		Month Day Year 05/13/97	

1-GENERATOR COPY

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

In case of an emergency or spill, immediately call CASIE (800) 554-2584

Appendix E

Tank Disposal Certificate



Environmental Technology Incorporated Certification of Tank Disposal

(In accordance with American Petroleum Institute recommended practice)

Client **US ARMY CORPS OF ENGINEERS** Job No. _____ Date **15 MAY 97**

Site from which the tank was removed
SIEVERS-SANBERG ARMY RESERVE

Site to which the tank is to be transported for final disposal

Tank Description

Size **1000 GAL** Type (steel, fiberglass, etc) **STEEL** Condition **GOOD**

Prior Contents
HEATING OIL

Tank Markings
NONE


Cleaning Certification

This is to certify that the above described tank has been cleaned in accordance with API methods and procedures and has been rendered suitable for disposal as scrap. All product residues were removed and the interior of the tank was tested and found to be free of harmful vapors.

Signed  **EARTH TECH** Date **15 MAY 97**
Company
Environmental Technology Incorporated


Transportation

This is to certify that the above described tank has been received and will be transported to the disposal site as specified above.

Signed  Date **5-15-97**
Shipper or Hauler **Call Pro**

Received for Disposal

This is to certify that the above described tank has been received for disposal and will be disposed of in accordance with applicable regulatory requirements.

Signed  Date _____
Disposal Facility **Conder Tann + Metal**

Comments

* PLEASE SIGN AND FAX BACK TO (804) 358-6868

THANKS

Appendix F

Laboratory Certificates and Chain-of-Custody

Page 1

TOXIKON CORP.

REPORT

Work Order # 97-05-218

Received: 05/14/97

05/20/97 10:39:46

REPORT EARTH TECH REMEDIATION

PREPARED TOXIKON CORPORATION

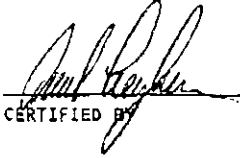
TO 2229 TOMLYNN ST.

BY 15 WIGGINS AVE

RICHMOND, VA. 23230

BEDFORD, MA 01730

804-358-5400 FAX: 358-6868

CERTIFIED BY 

ATTEN JANIS CROWDER

ATTEN PAUL LEZBERG

PHONE (617)275-3330

CONTACT CHUCKC

CLIENT EARTHTECH VA SAMPLES 14

COMPANY EARTH TECH REMEDIATION

MA CERT # M-MA064: TRACE METALS, SULFATE, CYANIDE, RES. FREE

FACILITY 2229 TOMLYNN ST.

CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS,

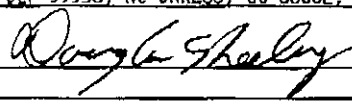
RICHMOND, VA, 23230

DEMAND, O&G, PHENOLICS, PCBs, CT DHS #PH-0563, NY #10778

FL HRS EB7143, NJ DEP 59538, NC DNR286, SC 88002, NH 204091-C.

WORK ID PEDRICKTOWN, NJ

TAKEN 5/13/97

VERIFIED BY: 

TRANS _____

CERT # M-MA064

TYPE SOIL

P.O. # 21574

INVOICE under separate cover

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this workorder

- 01 PED-B235-1-SS-01
- 02 PED-B235-1-SS-02
- 03 PED-B235-1-SS-03
- 04 PED-B235-1-SS-04
- 05 PED-B235-1-SS-04-D
- 06 PED-B413SW-SS-01
- 07 PED-B413SW-SS-02
- 08 PED-B413SW-SS-03
- 09 PED-B413SW-SS-04
- 10 PED-B413SW-SS-05
- 11 PED-B413SW-SS-06
- 12 PED-B413SW-SS-07
- 13 PED-B413SW-SS-08
- 14 PED-B413SW-SS-09

TPH IR TPH BY IR

Page 2

TOXIKON CORP.

REPORT

Work Order # 97-05-218

Received: 05/14/97

Results by Sample

SAMPLE ID <u>PED-B235-1-SS-01</u>	SAMPLE # <u>01</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 10:30:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B235-1-SS-02</u>	SAMPLE # <u>02</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 10:35:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B235-1-SS-03</u>	SAMPLE # <u>03</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 10:40:00</u> Category <u>SOIL</u>
TPH_IR <u>55.6</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B235-1-SS-04</u>	SAMPLE # <u>04</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 10:50:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B235-1-SS-04-D</u>	SAMPLE # <u>05</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 10:50:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B413SU-SS-01</u>	SAMPLE # <u>06</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:45:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B413SU-SS-02</u>	SAMPLE # <u>07</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:49:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PED-B413SU-SS-03</u>	SAMPLE # <u>08</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:55:00</u> Category <u>SOIL</u>
TPH_IR <u>56.7</u>	
mg/Kg DL=40.0	

Page 3

TOXIKON CORP.

REPORT

Work Order # 97-05-218

Received: 05/14/97

Results by Sample

SAMPLE ID <u>PEB-B413SW-SS-04</u>	SAMPLE # <u>09</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:57:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PEB-B413SW-SS-05</u>	SAMPLE # <u>10</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:52:00</u> Category <u>SOIL</u>
TPH_IR <u>61.1</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PEB-B413SW-SS-06</u>	SAMPLE # <u>11</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:47:00</u> Category <u>SOIL</u>
TPH_IR <u>62.6</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PEB-B413SW-SS-07</u>	SAMPLE # <u>12</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:43:00</u> Category <u>SOIL</u>
TPH_IR <u>ND</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PEB-B413SW-SS-08</u>	SAMPLE # <u>13</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:40:00</u> Category <u>SOIL</u>
TPH_IR <u>40.7</u>	
mg/Kg DL=40.0	
SAMPLE ID <u>PEB-B413SW-SS-09</u>	SAMPLE # <u>14</u> FRACTIONS: <u>A</u>
	Date & Time Collected <u>05/13/97 15:30:00</u> Category <u>SOIL</u>
TPH_IR <u>70.5</u>	
mg/Kg DL=40.0	

Page 4

TOXIKON CORP.

REPORT

Work Order # 97-05-218

Received: 05/14/97

Test Methodology

TEST CODE TPH IR NAME TPH BY IR _____

EPA METHOD: 418.1 for water sample.

Reference: Methods for Chemical Analysis of Water and Wastes.
EPA 600/4-79-020 (Revised, March 1983). EPA/ENSL, Cincinnati, OH.

EPA METHOD: 9071/9073

Reference: Test Methods for Evaluating Solid Waste: Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

LABORATORY CHRONICLE

All samples were chilled to 4°C at the time of receipt at Toxikon.

Toxikon Work Order #: 9705218

Date of Sample Collection: 05/13/97

Sample ID: As per Chain of Custody

ANALYSIS:

TPH by IR

Extraction 05/19/97

Analysis 05/20/97

Holding times were met for all sample analyses.

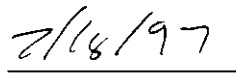
CONFORMANCE/NON-CONFORMANCE SUMMARY

Work Order #: 9705218

I certify that the reported laboratory results were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel evaluate the information submitted. I certify that the information submitted is true, accurate, and complete to the best of my knowledge and belief. The analyses were conducted without deviation from accepted practices, and were reviewed by the Quality Assurance Department.



Douglas V. Sheeley
Laboratory Manager



Date

CASE NARRATIVE

Work Order: 9705218

All samples were analyzed within the method holding times.

No target compounds were detected in the method blanks.



15 Wiggins Ave., Bedford, MA 01730
 Telephone: (617) 275-3330
 Fax: (617) 275-7478

CHAIN OF CUSTODY RECORD

WORK ORDER #: 97-05-218

DUE DATE : 5-21-97

COMPANY: <u>EARTH TECH</u> ADDRESS: <u>2229 TOMLYNN STREET</u> <u>RICHMOND VA 23234</u> PHONE #: <u>(804) 358-5460</u> FAX #: <u>(804) 358-6868</u> P.O. #: <u>21574</u> PROJECT MANAGER: <u>JANIS CROWDER</u> PROJECT ID/LOCATION: <u>PEDRICKTOWN, NJ</u>		SAMPLE TYPE 1. WASTEWATER 2. SOIL 3. SLUDGE 4. OIL 5. DRINKING WATER 6. WATER (GWM/WISW) 7. OTHER (SPECIFY)	CONTAINER TYPE P - PLASTIC G - GLASS V - VOA	ANALYSES (Diagonal lines with handwritten: TPHC (4181), VOIIS (8260))										SPECIAL INSTRUCTIONS/COMMENTS
--	--	--	---	--	--	--	--	--	--	--	--	--	--	-------------------------------

TOXIKON #	SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVE	ANALYSES										SPECIAL INSTRUCTIONS/COMMENTS				
			SIZE	TYPE	#	DATE	TIME																
1	PED-B235-1 -SS-01	RESIDUAL LEVEL TANK	207	PLASTIC	1	5-13-97	10:30	NONE	✓	✓													READ VOIIS
2	PED-B235-1 -SS-02				1		10:35		✓	✓													IF TPHC
3	PED-B235-1 -SS-03				1		10:40		✓	✓													> 1000 PPM
4	PED-B235-1 -SS-04				1		10:50		✓	✓													
5	PED-B235-1 -SS-04-D				1		10:50		✓	✓													
6	PED-B413 SW -SS-01				1		15:45		✓	✓													
7	PED-B413 SW -SS-02				1		15:49		✓	✓													
8	PED-B413 SW -SS-03				1		15:55		✓	✓													
9	PED-B413 SW -SS-04				1		15:57		✓	✓													
10	PED-B413 SW -SS-05				1		15:52		✓	✓													
11	PED-B413 SW -SS-06				1		15:47		✓	✓													
12	PED-B413 SW -SS-07				1		15:43		✓	✓													
13/14	PED-B413 SW -SS-08 -SS-09				1		15:40 15:30		✓	✓													

SAMPLED BY: <u>JULIAN T. CANUSO, JR.</u> RELINQUISHED BY: <u>[Signature]</u> RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>5-13-97</u> TIME: <u>-</u>	QUOTATION #: RECEIVED BY: <u>[Signature]</u> RECEIVED FOR LAB BY:	DATE: <u>5-14-97</u> TIME: <u>09-00</u>	<input type="checkbox"/> RUSH BUSINESS DAY TURN AROUND <input checked="" type="checkbox"/> ROUTINE - 1 WK Sample disposal information Are there any other known or suspected contaminants in these samples other than those listed above? Yes _____ No _____ If Yes, 1st Known _____
METHOD OF SHIPMENT <u>Car x</u>	COOLER TEMPERATURE			

FORM 1 (10/11/01) PHONE NO. : 617-275-3330 FAX NO. : 617-275-7478

Appendix G

**NJDEP Tank Facility Questionnaire
and Site Investigation Report Checklist**

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
 BUREAU OF STATE CASE MANAGEMENT
 Registration and Billing Unit
 CN 028, Trenton, N.J. 08625-0028
 1-609-633-0719

FOR STATE USE ONLY

Check In Yes No

STATUS Active Inactive COMCODE

UNDERGROUND STORAGE TANK
 FACILITY QUESTIONNAIRE

FACILITY UST # 0071994

Completion of this Registration Questionnaire will satisfy the registration requirements of the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21, and the Registration and Billing Regulations N.J.A.C. 7:14B-2.

[Check appropriate box(es)]

- A. Is this a registration of a proposed or newly installed underground storage tank? (This form must be filed at least 30 days prior to operation)
- B. Is this a registration of an existing underground storage tank not presently registered?
- C. Is this a correction or amendment to an existing facility registration? UST # 0071994
- D. There have been no changes to the facility registration since last submittal. UST # _____ (Go to certification page for signatures)

If "C" is checked above, please check the appropriate type of change(s) below

- Facility Name and/or Address Change
- Owner Name and/or Address Change
- Facility Operator and/or Address Change
- Owner Contact Person Change
- Type of Product(s) Stored
- Spills, Leaks, Releases
- Tank(s) and/or Piping Changes
- Closure (Complete Question #13)
- Financial Responsibility Change
- Substantial Modification(s)
- Sale or Transfer (Complete Questions 4,5,6 & 13D)
- Other (please specify) _____
register unregistered tanks

SECTION A - GENERAL FACILITY INFORMATION

1. Facility Name Piedmont-Kelowna Superfund Facility
2. Facility Location Rt 1310
NUMBER AND STREET
Piedmont-Kelowna
CITY OR MUNICIPALITY
Salem COUNTY N.J. STATE 081067 ZIP CODE
718 BLOCK 3526053 LOT
3. Facility Operator Mrs. Hutchins PERSON OR TITLE Contact Tele. No. 718 (Area Code) 3526053 (Extension)
Operator Address (if different than #2) HQ 1717th USA RI Regional Superfund Command
NUMBER AND STREET
AIRIC-CINCY-EN (Bldg 12101)
CITY OR MUNICIPALITY
Florence
CITY OR MUNICIPALITY
NY STATE 11359 ZIP CODE 1016
4. Tank Owner US Air Force Training Center, Fort Dix
5. Tank Owner Address Ft Dix
NUMBER AND STREET
Burlington
CITY OR MUNICIPALITY
NJ STATE 08164 ZIP CODE 451011
6. Contact Person (Tank Owner) Mrs. Sibley Contact Tele. No. _____ (Area Code) _____ (Extension)
7. EPA ID # NJ6210090068
8. Total number of regulated underground storage tanks at facility unk (Complete Section B for each tank)

9. Total regulated underground storage tank capacity at facility (gallons)

10. Facility Type: A State C County/Municipal E Charitable / Public School G Other
 B Commercial/Industrial D Federal F Residence H Farm (as defined in N.J.S.A. 54:4-23.1 et seq.)

11. Is a copy of the facility site plan submitted with this registration pursuant to N.J.A.C. 7:14B-2? YES NO

SECTION B - SPECIFIC TANK INFORMATION

ALL underground tanks, including those taken out of operation (UNLESS THE TANK WAS REMOVED FROM THE GROUND PRIOR TO 9/3/86) must be registered. Report all tank/piping status changes unless previously submitted.

1. Tank Identification Number	TANK NO.		TANK NO.		TANK NO.		TANK NO.		TANK NO.				
	2	3	5										
2. CAS Number (hazardous substances only)													
3. Date Tank installed (Month/Day/Year)	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	Mo.	Day	Year	
	unknown												
4. Tank Size (gallons)													
		0	0	0									
5. Tank Contents (Mark one "X" for each tank)													
A. Leaded gasoline													
B. Unleaded gasoline													
C. Alcohol enriched gasoline													
D. Light diesel fuel (No. 1-D)													
E. Medium diesel fuel (No. 2-D)													
F. Waste Oil													
G. Kerosene (No. 1)													
H. Home heating oil (No. 2)		X											
J. Heating oil (No. 4)													
K. Heavy heating oil (No. 5)													
L. Aviation fuel													
M. Motor oil													
N. Lubricating oil													
P. Sewage													
Q. Sewage sludge													
R. Other hazardous substances (specify)													
S. Hazardous waste (specify ID number)													
T. Mixtures (please specify)													
U. Emergency spill tank (specify substance)													
V. Other petroleum products (please specify)													
W. Other (please specify)													
6. Tank & Piping Construction (Mark one each for both tank & piping)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping			
A. Bare Steel	X												
B. Cathodically protected steel													
C. Fiberglass-coated steel													
D. Fiberglass-reinforced plastic													
E. Internally lined													
F. Other (please specify)													
7. Tank & Piping Structure (Mark one each for both tank & piping)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping			
A. Single wall	X												
B. Double wall													
C. Other (please specify)													
8. Type of Monitoring/Detection System (Mark all that apply for both tank & piping)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping			
A. Statistical Inventory Reconciliation													
B. Manual Tank Gauging													
C. Inventory Control													
D. Interstitial													
E. Precision Test													
F. Ground water observation wells													
G. Vapor observation wells													
H. In-tank (automatic) monitoring gauge													
J. Periodic Tank Test													

Tank Identification Number	TANK NO. 2 3 5		TANK NO.		TANK NO.		TANK NO.		TANK NO.	
8. Type of Monitoring/Detection System K. None	Tank <input checked="" type="checkbox"/>	Piping <input type="checkbox"/>	Tank <input type="checkbox"/>	Piping <input type="checkbox"/>	Tank <input type="checkbox"/>	Piping <input type="checkbox"/>	Tank <input type="checkbox"/>	Piping <input type="checkbox"/>	Tank <input type="checkbox"/>	Piping <input type="checkbox"/>
L. Other (please specify)										
9. Overfill Protection (tank only) (Mark one X for each tank)										
A. Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Spill Containment Around Fill Pipe (Mark one X for each tank)										
A. Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Tank Status (Mark one X for each tank)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. In-use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Empty less than 12 months	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Empty 12 months or more	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Emergency spill tank (sump)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. Emergency backup generator tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Abandoned in Place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. Removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Other (please specify)										
12. If box 11B, C, or D above has been marked, indicate the estimated date last used (month/day/year)	Mo. Day Year		Mo. Day Year		Mo. Day Year		Mo. Day Year		Mo. Day Year	
13. Closure Information - Tank ID No.	TANK NO. 2 3 5		TANK NO.		TANK NO.		TANK NO.		TANK NO.	
	Mo. Day Year		Mo. Day Year		Mo. Day Year		Mo. Day Year		Mo. Day Year	
A. Date abandoned in place										
B. Date taken temporarily out of service										
C. Date removed	05	13	19	9	7					
D. Date of Sale or Transfer										
E. TMS # (if applicable)										
F. ISRA # (if applicable)										

SECTION C - FINANCIAL RESPONSIBILITY

Does this facility have a Financial Responsibility Assurance Mechanism as required in 40 CFR 280? YES NO
Please list the appropriate financial information below:

Type	Carrier / Issuing Agency
____/____/____	_____
Effective Date	Expiration Date
____/____/____	____/____/____
Policy Number	\$ Amount
_____	_____

SECTION D - MONITORING SYSTEMS

Does this facility have a release detection monitoring system which is in compliance with N.J.A.C. 7:14B-6? YES NO
If "No", please be aware that the facility must meet the appropriate deadline. (See "Dates to Know" on Page 4)

SECTION E - RECORDKEEPING/COMPLIANCE

- Please answer all the questions in this section on a facility basis. Any one tank not in compliance requires a "NO" answer for the entire facility.
- Does this facility have cathodic protection systems for all steel tanks and piping? YES NO
If "Yes", are the systems properly operated and maintained pursuant to N.J.A.C. 7:14B-5? YES NO
 - Are the performance claims and documentation of monitoring systems maintained by the owner or operator pursuant to N.J.A.C. 7:14B-5? YES NO
 - Are the proper monitoring, testing, sampling, repair and inventory records kept on-site pursuant to N.J.A.C. 7:14B-5 and 6? YES NO
 - Is the proper Release Response Plan kept on-site pursuant to N.J.A.C. 7:14B-5? YES NO
 - Does the facility have spill and over fill protection systems pursuant to N.J.A.C. 7:14B-4? YES NO
 - Have all Fill Ports been permanently marked as per API #1637 pursuant to N.J.A.C. 7:14B-5? YES NO

IMPORTANT INFORMATION

FEE: Please make checks payable to: "Treasurer, State of New Jersey". Use of the enclosed return envelope will expedite processing. Registration and Billing Schedule can be found in N.J.A.C. 7:14B. All Initial Registration fees are \$100 per facility.
PENALTY: Failure by owner or operator of a regulated underground storage tank to comply with any requirement of the State UST Act or regulations may result in the penalties set forth in N.J.S.A. 58:10A-10.
EMERGENCY: If a discharge or spill occurs, the NJDEP Hotline at (609) 292-7172 must be called IMMEDIATELY - 24 hours a day.
UPGRADE EXEMPTION: Residential heating oil underground storage tanks are exempt from all upgrade requirements.

DATES TO KNOW (critical deadlines)

- December 22, 1988 — All new federally regulated tank systems must have cathodic protection and spill/overflow protection.
September 4, 1990 — All new State-only regulated tank systems must have cathodic protection and spill/overflow protection.
December 22, 1990 — All federally regulated piping must have begun leak detection.
February 19, 1993 — All federally regulated tank systems must maintain financial responsibility assurance.
December 22, 1993 — All federally regulated tank systems must have begun leak detection.
December 22, 1998 — All regulated tanks shall install cathodic protection and spill/overflow protection.

CERTIFICATIONS

NOTE: IF THE PERSON SIGNING CERTIFICATION NO. 2 IS THE SAME AS THE PERSON SIGNING CERTIFICATION NO. 1, THEN CERTIFICATION NO. 2 NEED NOT BE SIGNED. (If different persons are required to sign No. 1 and No. 2, then they must do so.)

CERTIFICATION NO. 1:

Must be signed by the highest ranking individual at the facility with overall responsibility

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

(Typed / Printed Name) (Signature)
(Title) (Date)

CERTIFICATION NO. 2:

- Must be signed as follows:
• For a corporation, by a principal executive officer of at least the level of vice president
• For a partnership or sole proprietorship, by a general partner or the proprietor, respectively
• For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official
• For persons other than indicated above, by the person with legal responsibility for the site

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein 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 civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

(Typed / Printed Name) (Signature)
(Title) (Date)

CERTIFICATION NO. 3:

If applicable, must be signed by the individual who is certified to perform services.

"I certify under penalty of law that the information provided in this document is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant civil and criminal penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Julian T. Canuso Jr. Project Engineer (Typed / Printed Name) (Title)
Julian T. Canuso Jr. 7-10-97 (Signature) (Date)
(Name of Firm, if applicable) (N.J. Certification Number)

- C) If a soil sample was collected 2 feet from the saturated zone or bedrock, does it contain a contaminant above the impact to ground water remediation criteria? Yes No
- D) Are any of the soil sampling results above the impact to ground water remediation criteria anywhere in the soil column and the contaminant is not going to be actively remediated? Yes No
- E) Was a sheen or product noted on the ground water? Yes No
- 6) Were any wastes generated for disposal during the SI or RI? Yes No
- A) The attached contains a "soil reuse" proposal or report, including characterization sampling, as requested in the May 14, 1993, "Management of Excavated Soils" guidance document Yes No
- B) The attached report contains a request for a Waste Flow Exemption Yes No
- C) The attached report contains documentation of the quantity, waste classification and status of all excavated soil/waste disposal (including drum contents, tank sludge/risate, overburden soils, etc.) remediation or reuse and clean fill documentation Yes No

Site Investigation (SI) and Remedial Investigation (RI) Report Submittal Checklist

(Note page, figure, table or plate number(s) or NA for Not Applicable)

E. SI Reporting Requirements

- 1) Historical Information (including maps and air photos) Pg. No. 2
- 2) Physical Setting Pg. No. 2
- 3) Technical Overview of investigation execution and results including reliability of lab data, summary of contamination, information on waste characterization and any other significant events Pg. No. 3
- 4) Findings and recommendations by Area of Concern (AOC) Pg. No. 4
 - A) Description of each AOC including size (i.e. size of drum pad, volume of impoundment or area, length of UST and piping), suspected and actual contamination (presence of discoloration, stressed vegetation, corrosion holes in USTs, description of the excavation, if any), source or potential source of discharge and field measurements Pg. No. 1
 - B) Results of Analyses Pg. No. Table 1
 - C) Fully supported Recommendation for additional remedial activities or "No Further Action" Pg. No. 4
- 5) Summary Table of analytical methods and quality assurance indicators pursuant to N.J.A.C. 7:26E-2.2 (a)iv Pg. No. 3
- 6) Laboratory Quality Assurance and Quality Control Deliverables pursuant to N.J.A.C. 7:26E-2.1 and Appendix A (include lab deliverable checklist) Pg. No. App F
 - A) Nonconformance Summary signed by the Laboratory Pg. No. App F
 - B) Chain of Custody Pg. No. App F
- 7) Discussion of why the analytical methods chosen for each sample matrix accurately represent all of the contaminants of concern at the facility Pg. No. _____
- 8) Table summarizing sampling results, including media, sampling depth, field and laboratory identification numbers, date and time of sampling, analytical results, and comparison to applicable remediation standards (ARS). Identify all samples exceeding ARS and all samples with MDLs or PQLs exceeding ARS. Solid results on dry weight basis (in mg/Kg) and aqueous samples in ug/l Pg. No. 3
- 9) Scaled Site map and AOC base map(s) with sample locations, sample depth and contaminant levels. (see N.J.A.C. 7:26E-3.10 (d)1 or 4.9 (d)2 for map details) Pg. No. App A
- 10) Boring/Stratigraphic logs including instrument readings and physical characteristics Pg. No. _____
- 11) Boring/Stratigraphic cross sections Pg. No. _____
- 12) Boring, piezometer and monitoring well records with applicable permit numbers Pg. No. _____

F. RI Reporting Requirements (Include all items above plus the following.)

- 13) Additional information collected pursuant to N.J.A.C. 7:26E-4.1 and any work plan approved per N.J.A.C. 7:26E-4.8 (i.e. well search information results/summary, subsurface gas threats, investigation of sediment, surface water, wetlands), as applicable Pg. No. _____
- 14) Well Search Results (pursuant to 7:26E-4.4(h) and Appendix B) Pg. No. _____
- 15) Description of treatability bench scale or pilot studies as well as data to develop permit limits for air, surface water and/or ground water discharges Pg. No. _____
- 16) Average contaminant concentrations for each AOC (see N.J.A.C. 7:26E-4.9 (c)3i), and a description of the procedures used for averaging Pg. No. _____
- 17) Well casing and ground water elevations (include well Certifications A and B) Pg. No. _____
- 18) Ground water temperature, pH and conductivity measurements Pg. No. _____
- 19) Review of inventory control records to identify product loss Pg. No. _____
- 20) Results of an Ecological Assessment, if conducted Pg. No. _____
- 21) Summary of Landfill records, if site is a landfill Pg. No. _____
- 22) Site base maps with sampling locations* and diagrams shall include:
 - A) ground water elevation contour maps with flow direction, and tidal studies, if applicable Pg. No. _____
 - B) top of bedrock contour map, if bedrock was encountered Pg. No. _____
 - C) contaminant isopleth maps for ground water showing horizontal/vertical extent of contamination above applicable standards, and free product Pg. No. _____
 - D) isopleth maps for soil contaminants (required if more than 25 soil samples collected; suggested for fewer than 25 samples) Pg. No. _____
 - E) horizontal and vertical distribution of contaminants in soil and sediment with sample numbers* and contaminant concentrations Pg. No. _____
 - F) all ground water sampling points* including open hole and screened intervals Pg. No. _____
 - G) if applicable, a map of surface water, structure and airborne contaminants Pg. No. _____
 - H) photos may be submitted of sample locations (identify photo location on site map) Pg. No. _____
 - I) other data collected (e.g. soil gas), specify type Pg. No. _____

*NOTE: The same alpha/numeric sample label used in the RI workplan shall be used in the RI Report

G. Report Contents Completeness and Two Part Certification:

- 23) The attached report conforms to the specific reporting requirements listed at N.J.A.C. 7:26E-3.10 for a SI Report or N.J.A.C. 7:26E-4.9 for a RI Report Yes No

Name: Julian T. Cuniso Jr. Signature: Julian T. Cuniso Jr. UST Cert. No. 4500516
 Firm: _____ Firm's UST Certification Number: _____

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 58:10A-21 et seq.)

- 24) Two part certification signed and completed pursuant to one of the following requirements (indicate the page number next to the appropriate regulatory citation):
 - A) N.J.A.C. 7:26C-1.2 Pg. No. _____
 - B) N.J.A.C. 7:14B-2.3 Pg. No. _____
 - C) N.J.A.C. 7:26B-1.13 Pg. No. _____