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SITE INVESTIGATION REPORT SUMMARY OF FINDINGS FOR UNDERGROUND STORAGE
TANK R-12 NWS EARLE NJ
8/11/1995
ENVIRO-TECH, INC.



**SITE INVESTIGATION REPORT
SUMMARY OF FINDINGS FOR UST R-12**

**UNITED STATES NAVAL WEAPONS STATION - EARLE
Colts Neck, Monmouth County, New Jersey**

August 11, 1995

Prepared for:

**Tom Dunn
ROICC
NWS Earle
Colts Neck, New Jersey**

Prepared by:

**Enviro-Tech, Inc.
364 Broad Street
Keyport, New Jersey**

UST-014
2/91



FOR STATE USE
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 10/25/85

0151003
FACILITY REGISTRATION #

I. FACILITY NAME AND ADDRESS

UNITED STATES NAVAL WEAPONS STATION - EARLE
COLTS NECK
County MONMOUTH
Telephone No. 908-866-2048

OWNER'S NAME AND ADDRESS, if different from above

Telephone No. _____



UST-014
291

II. DISCHARGE REPORTING REQUIREMENTS

- A. Was contamination found? Yes No If Yes, Case No. 95-10-18-1453-54
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- B. The substance(s) discharged was(were) # 2 HEATING OIL
- C. Have any vapor hazards been mitigated? Yes No N/A

III. DECOMMISSIONING OF TANK SYSTEMS

Closure Approval No. NONE ISSUED

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)

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



D. Ground Water Monitoring NOT APPLICABLE

1. Number of ground water monitoring wells installed NONE
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. N/A ppb total BTEX, N/A ppb total non-targeted VOC
 2. N/A ppb total B/N, N/A ppb total non-targeted B/N
 3. 62,000 ppm TPHC
 4. N/A ppb N/A (for non-petroleum substance)

C. Remediation of free product contaminated soils

1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface Yes No
2. Free product contaminated soils are suspected to exist below the water table Yes No
3. Free product contaminated soils are suspected to exist off the property boundaries. Yes No

D. Was the vertical and horizontal extent of contamination determined? Yes No N/A

E. Does soil contamination intersect ground water? Yes No N/A UNKNOWN

VI. GROUND WATER CONTAMINATION NOT APPLICABLE

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:

1. _____ ppb total BTEX, _____ ppb total non-targeted VOC
2. _____ ppb total B/N, _____ ppb total non-targeted B/N
3. _____ ppb total MTBE, _____ ppb total TBA
4. _____ ppb _____ (for non-petroleum substance)
5. greatest thickness of separate phase product found _____
6. separate phase product has been delineated Yes No N/A

C. 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 _____.



D. Proximity of wells and contaminant plume

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

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

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

G. Delineation of contamination

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

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

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

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

NAME (Print or Type) A. LEE FANKHAUSER SIGNATURE *A. Lee Fankhauser*

COMPANY NAME ENVIRO-TECH, INC. DATE AUGUST 11, 1995
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION STATE OF NEW JERSEY CERTIFICATION NUMBER 0010953



VIII. TANK DECOMMISSIONING CERTIFICATION [person performing tank decommissioning portion 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) STEVEN PIRISYI SIGNATURE [Signature]
COMPANY NAME CENTRAL PUMP & TANK DATE 9/25/95
(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) _____ SIGNATURE _____
COMPANY NAME _____ DATE _____

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) LEVIN A. BOVA SIGNATURE [Signature]
COMPANY NAME LUPNATA EARLE DATE 10-25-95



VIII. TANK DECOMMISSIONING CERTIFICATION [person performing tank decommissioning portion 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) Steven Pinsky SIGNATURE [Signature]

COMPANY NAME CENTRAL Pump & Tank DATE 9/28/95
(Performer of Tank Decommissioning)

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) _____ SIGNATURE _____

COMPANY NAME _____ DATE _____

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 _____



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- I. UST CLOSURE APPROVAL FOR R-12
- II. RESIDUAL PRODUCT AND BOTTOM SLUDGE DISPOSAL MANIFESTS
- III. N.J. CERTIFIED ENGINEER'S UST ABANDONMENT LETTER
- IV. CLEAN FILL CERTIFICATION
- V. LABORATORY ANALYTICAL PACKAGE

ATTACHMENT:

UNDERGROUND STORAGE TANK SITE ASSESSMENT SUMMARY



1.0 INTRODUCTION

United States Naval Weapons Station Earle (Earle) is a United States Navy ammunition depot located in Monmouth County, New Jersey. Figure 1 is an annotated United States Geological Survey 7.5 minute series (Marlboro and Long Branch Quadrangles) map showing site location, local topography, drainage, and other features. Figure 2 is a site plan showing site layout, building location, underground storage tank (UST) location, UST designation and other site features.

In light of the New Jersey Department of Environmental Protection's (NJDEP's) deadlines regarding UST upgrades, Earle decided to close a single 2,000 gallon #2 heating oil UST (designated R-12) at their facility (UST Registration #0151003).

In April, 1995, Enviro-Tech, Inc. (ETI) of Keyport, New Jersey (NJDEP Closure/Subsurface Evaluation Certification #1300239) was retained by Central Pump & Tank (CP&T) of Freehold, New Jersey (a subcontractor of Tri-State Construction, Inc. of Fort Washington, Pennsylvania), the UST removal contractors retained by Earle, to complete the NJDEP's site investigation requirements for the closure of UST R-12. ETI's activities at Earle included the preparation and submission of the UST Closure Plan Approval Application to the NJDEP, the completion of a Site Investigation in accordance with N.J.A.C. 7:26E-3.0, and the preparation and submission of a Site Investigation Report (SIR) to the NJDEP which would satisfy the requirements of the NJDEP's *Technical Requirements for Site Remediation*.

In April, 1995, Earle submitted an UST Closure Approval Application to the NJDEP for review and on June 27, 1995, Earle received approval for the closure of UST R-12. A copy of the UST Closure Approval is included in Appendix I.

2.0. SITE INVESTIGATIONS

2.1 UST Decommissioning Activities

UST decommissioning activities were conducted on June 21, 1995 by CP&T. UST decommissioning activities included pumping the UST free of residual product, excavating overlying soils to expose the top of the UST, cutting holes in the UST to allow access to the tank's interior, and cleaning the interior of the UST with a biodegradable degreaser. A total of approximately 100 gallons of residual product and bottom sludge was removed from the single 2,000 gallon UST present at the facility and placed in 55 gallon drums. Following the cleaning of the UST, the drums were transported to CP&T's yard in Freehold, New Jersey where they were the residual product/bottom sludge was subsequently pumped out and disposed of by L&L Oil Company of Old Bridge, New Jersey as New Jersey hazardous waste X722 "Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel oil tanks". The manifest for the residual product and bottom sludge disposal is included in Appendix II.

Following cleaning, the UST was inspected by ETI and CP&T personnel and was determined to be close enough to the footing of building R-12 at Earle that removal of the tank might cause structural damage to the building. In addition to this problem, the bottom half of the UST was found to be encased in a bed of concrete, making the UST's removal extremely difficult. Following a discussion between ETI and CP&T personnel, it was determined that these two problems warranted an inspection by a New Jersey Certified Professional Engineer (NJCPE) to determine whether UST R-12 could be removed or should be abandoned in-place. Subsequent to a review of UST R-12's situation adjacent to the building R-12's footing and within a bed of concrete, Mr. John Hyfantis (a NJCPE) determined that the UST should be abandoned in place as removal of the UST was both extremely difficult and would possibly jeopardize the structural integrity of the building. The NJDCPE's letter certifying the abandonment of UST R-12 is included in Appendix III.

During inspection of the UST, no corrosion holes or pitting were observed within the UST by ETI personnel.

2.2 Soil Investigation

On June 21, 1995, ETI personnel (A. Lee Fankhauser - NJDEP License #0010953) was on-site to locate and collect post-excavation soil samples from below the UST location in accordance with current NJDEP requirements.

During the abandonment of the UST at the Earle facility, soils removed from over the top and to the side of the UST were scanned for "free product contamination" in the field using a Heath Consultants, Inc. *Detecto-Pack III* flame ionization detector (FID) and/or one or more of the following methods:

Method 1 - Soil/Water Agitation

A clear jar was partially filled with the soil/fill sample. Sufficient water was added to saturate the soil and bring the water level to about 1 cm above the soil surface. The jar was sealed, and the sample was agitated by shaking. The jar was then opened to check for the presence of a sheen on the water surface. If a sheen was present, the soils were contaminated by free product. If no sheen was present, the soils were either contaminated with dissolved product or were free of contamination. The presence of a sheen was checked under various lighting conditions and backgrounds since these factors affect the visibility of the sheen.

Method 2 - Field Sorption Method

This method was used to sorb free product from contaminated soils. A sample of the soil/fill was pressed against a brown paper bag for about 10 seconds. Soils contaminated by free product resulted in a

"greasy" staining of the bag. The stain is more pronounced with fuel oils than for gasoline.

The FID was calibrated prior to use with 100 parts per million (ppm) methane gas.

During the removal of soil from along side and from atop UST R-12, no potentially contaminated soil was identified by ETI personnel. Consequently, following the abandonment of UST R-12, the soil that had been removed from the excavation to expose the UST was used as backfill within the UST abandonment excavation.

Soils underlying the surface in the vicinity of UST R-12 consisted of the following:

0.0' - 1.0'	Brown silty, loamy coarse to fine SAND;
1.0' - 3.0'	Brown medium to fine silty SAND;

As UST R-12 could not be removed from the ground, a total of four (4) holes were drilled through the base of the UST, along the UST's centerline, for the collection of post-excavation soil samples.

No water was observed to be entering the UST following the installation of boreholes through the base of the UST.

Following the installation of boreholes through the base of the UST, a total of four (4) post-excavation soil samples (PE-1 through PE-4) were collected from below the centerline of the UST, from a depth of approximately seven (7) feet below grade.

Post-excavation soil samples collected from below the centerline of UST R-12 were submitted to Veritech Environmental and Analytical Services (Veritech), NJDEP Certification #14622, for analysis of total petroleum hydrocarbons (TPH), volatile organic compounds plus ten (10) unknown peaks (VO+10) and total xylene. The TPH analyses were to be completed by the laboratory first. If the TPH results indicated a TPH concentration greater than 1,000 ppm in any of the four (4) post-excavation soil samples collected from below the UST, 25% of those samples would be analyzed for VO+10 and total xylene. If the analytical data showed no TPH concentration greater than 1,000 ppm, no additional analyses were to be required.

Quality assurance quality control (QA\QC) samples for this sampling event included a field blank sample. The field blank was prepared in the field, on the day of the UST abandonment sampling event, by pouring laboratory de-ionized water over pre-cleaned soil sampling tools and into laboratory supplied sample collection bottles. The field blank sample then accompanied the post-excavation soil samples to the laboratory for analysis of VO+10 and total xylene and was to be analyzed only in the event that VO+10 and total xylene were required to be analyzed on the post-excavation soil samples.

A chain of custody accompanied post-excavation soil samples from the time of collection to the time they were received by the appointed lab for analyses.

Manifests for the clean fill material brought onto the Earle facility to be used as backfill within the UST excavations are included in Appendix VI.

The locations and designations of UST abandonment soil samples collected for UST R-12 are included in Figure 3.

3.0 RESULTS

3.1 Chemical Analysis of Soil

A total of four (4) UST abandonment soil samples were collected from below the centerline of UST R-12 (sample locations PE-1 through PE-4) from a depth of approximately seven (7) feet below grade. The analytical results of the post-excavation soil samples collected from these sample locations indicated that UST abandonment soil sample PE-1 contained a TPH concentration of 62,000 ppm; UST abandonment soil sample PE-2 resulted in a TPH concentration of 53,000 ppm; UST abandonment soil sample PE-3 resulted in a TPH concentration of 980 ppm; and, UST abandonment soil sample PE-4 resulted in a TPH concentration of 8,400 ppm.

The field blank sample that accompanied the UST abandonment soil samples from UST R-12 was not analyzed by the laboratory due to the high concentrations of TPH within the soil samples.

Results of the UST abandonment soil sampling program for UST R-12 are included in Table 1. The laboratory package for the Site Investigation is included in Appendix V.

4.0 CONCLUSIONS

After reviewing the data collected during Earle's Site Investigation, the following conclusions may be made:

- A single formerly existing heating oil UST at the Earle facility was abandoned in-place;
- No indications of a discharge were observed in the soils overlying the UST;
- No ground water was observed to be entering the UST following the installation of bore holes through the base of the UST for sample collection;
- Two (2) of the four (4) UST abandonment soil samples collected from the below the base of the UST resulted in TPH concentrations greater than 10,000 ppm;
- As the NJDEP does not allow soil with a TPH concentration greater than 10,000 ppm to remain within the ground, no



additional analyses (VO+10, total xylene) were deemed necessary for UST R-12's abandonment soil samples as the soil already contained excessive TPH concentrations.

5.0 RECOMMENDATIONS

Due to the concentration of TPH reported to exist below the abandoned 2,000 gallon UST, it is ETI's recommendation that additional remedial investigation/action be completed at UST R-12 to delineate and remediate the underlying soil contamination to acceptable concentrations.

The Underground Storage Tank Site Assessment Summary is attached with this report.

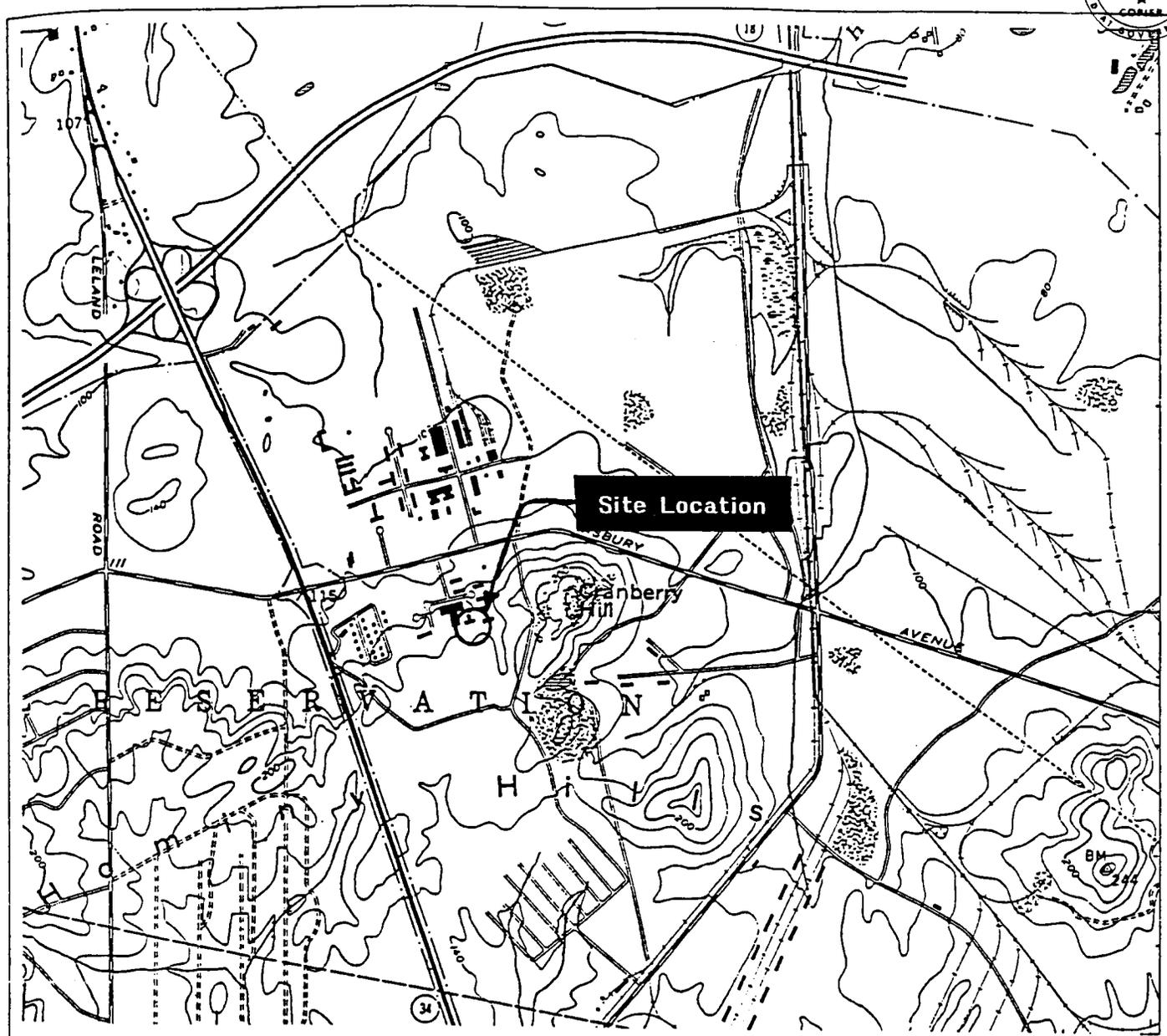
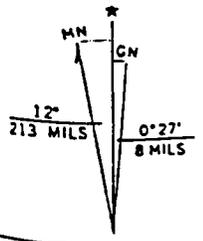
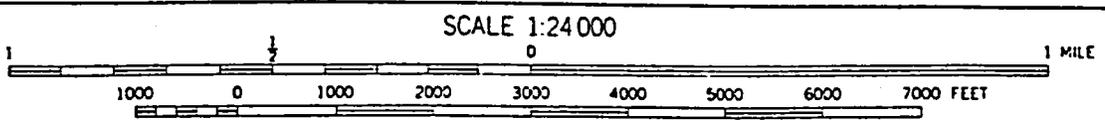
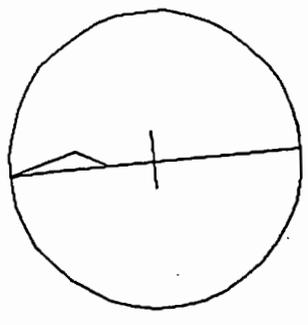


Figure 1
 SITE LOCATION PLOT
 United States Naval Weapons Station - Earle
 Colts Neck, New Jersey

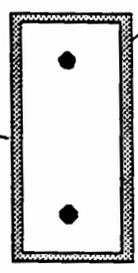


Enviro-Tech Inc.
 364 Broad Street
 Keyport, NJ 07735-1619

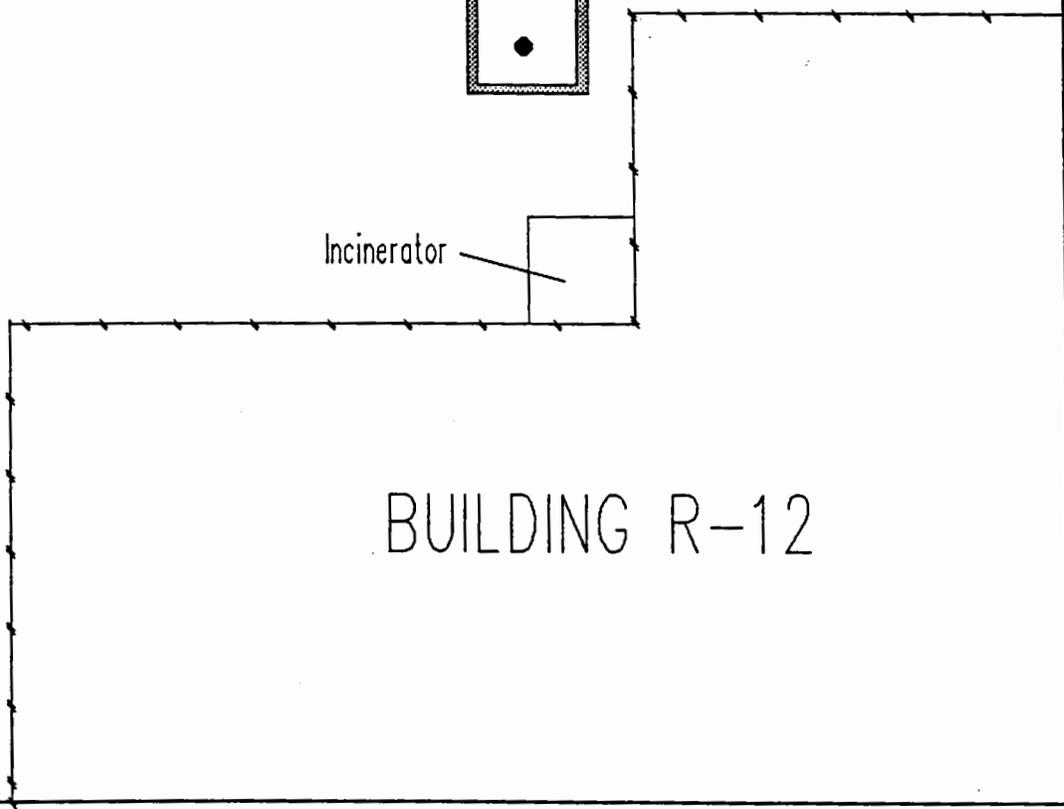


2,000 gallon #2
heating oil UST

Concrete anchor



Incinerator



BUILDING R-12

Figure 2
SITE PLAN

United States Naval Weapons Station - Earle
UST R-12
Colts Neck, Monmouth County, New Jersey
Scale: 1" = 10'

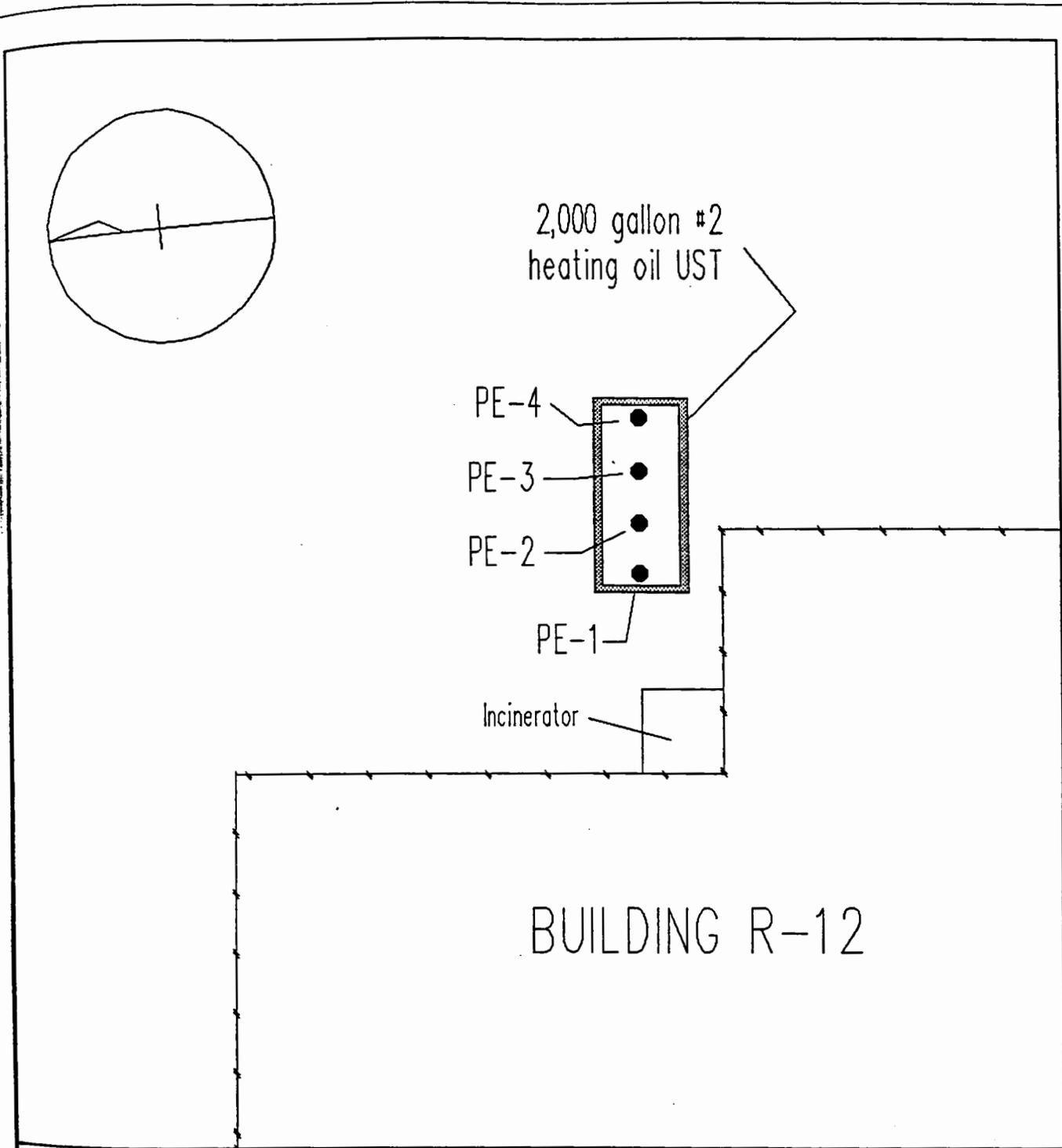


Figure 3
Post-excavation Soil Sample Location Plot
United States Naval Weapons Station - Earle
UST R-12
Colts Neck, Monmouth County, New Jersey
Scale: 1" = 10'



TABLE 1

SUMMARY OF TPH ANALYTICAL RESULTS FOR #2 HEATING OIL
UST POST-EXCAVATION SOIL SAMPLES
United States Naval Weapons Station Earle
Monmouth County, New Jersey

Underground Storage Tank R-12

(June 21, 1995)

<u>SAMPLE #</u>	<u>TPH RESULT (ppm)</u>
PE-1	62,000
PE-2	53,000
PE-3	980
PE-4	8,400

Notes: ND = Compound was not detected.



UNDERGROUND STORAGE TANK SYSTEM CLOSURE APPROVAL

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

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

UST # 0151003

Naval Weapons Station Earle
Monmouth County
New Jersey

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: One (1) 5,000 gallon, #2 heating oil Underground Storage Tank (UST),
designated C-38. One (1) 1,500 gallon #2 heating oil UST, designated R-1. One (1) 2,000
gallon, #2 heating oil UST, designated R-12 and one (1) 3,000 gallon #2 heating oil UST,
designated C-53. Removal shall include all associated piping and appurtenances.

SITE ASSESSMENT: Samples shall be collected every five (5) feet along the centerline of each
tank and one (1) every 15 feet along the appurtenant piping. Two (2) additional samples
shall be taken per tank and shall be biased to the areas of highest field screened readings.
Samples will be analyzed for TPHC. Analyze 25% of the samples over 1,000 ppm TPHC
for VO+10. Analysis shall be biased towards the samples with the highest THFC
concentrations.

ON-SITE MANAGER:
A. Lee Fankhauser

TELEPHONE:
(908)-566-2277

EFFECTIVE DATE: 6/27/95

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

ROMAN S. LUZECKY, SECTION CHIEF,
BUREAU OF FEDERAL CASE MANAGEMENT

OPTIONAL FORM 89 (7-90)		# of pages ▶ 1	
FAX TRANSMITTAL			
To	LEE. F.	From	T.E. DUNN
Dept/Agency	ENVIRO-TECH	Phone #	866 2048
Fax #	566-2505	Fax #	
NGN 7540-01.317-7368		509R-101	
GENERAL SERVICES ADMINISTRATION			
888 9293			



RD1 Box 5A
Old Bridge, N.J. 08857
(808) 721-0900
Fax (908) 721-0231

STANDARD
COLLECTION
ORDER FORM

102860

GENERATOR/LOCATION: Central Pump Station OFFICE USE ONLY

BILL TO (IF DIFFERENT FROM LOCATION): Central Pump Station

ACCOUNT APPROVAL CODE: 100

DELIVERY ADDRESS: Central Pump Station

CITY: Old Bridge STATE: NJ

PURCHASE ORDER NUMBER: 100

MANIFEST NUMBER: 100

SHIPPING INFORMATION

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

SALES REPRESENTATIVE: [Signature]

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT OF MEASURE	PRICE	TAX	LINE TOTAL	
40500	USED OIL REMOVAL		240	GALS				
40501	OIL WATER DISPOSAL							
40502	SLUDGE DISPOSAL		100	GALS				
41000	NON HAZARDOUS DISPOSAL		100	GALS				
41001	RCRA WASTE DISPOSAL							
41500	VAC TRUCK & OPERATOR				12.00			
41501	DRUM DISPOSAL							
41502	SEPARATOR CLEANING							
41503	QA/QC ANALYTICAL TESTING							
41504	TANK CLEANING							
41505	CONFINED SPACE ENTRY							
42000	MANIFEST PROCESSING FEE							
42001	DEXSIL TEST KIT							
TOTAL								

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

INVOICES REFLECTING CHARGES TO CUSTOMER ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF 2% PER MONTH (24% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, LORCO SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

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

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

Dennis J. Swartz EPA
Print Name: Dennis Swartz Title: 6-27-95
Signature: [Signature] Date: 6-27-95
GENERATOR/CUSTOMER

SMALL QUANTITY GENERATOR CERTIFICATION

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

[Signature]
GENERATOR SIGNATURE

LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL CDT TEST RESULTS: < 1006 PPM

PAYMENT RECEIVED SECTION

CASH CHECK NUMBER: [Blank]

TOTAL RECEIVED: [Blank]

PAYMENT MADE SECTION

PAYMENT METHOD: CASH CHECK

PAYMENT AMOUNT: [Blank]

RECEIVED BY: [Blank]

CUSTOMER'S SIGNATURE: [Blank]

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

[Signature] LORCO REPRESENTATIVE
Print Name: [Blank] Date: 6-27-95



ENERGISTICS, INC.

1050 HWY. 35, SUITE 107 SHREWSBURY, N.J. 07702
TEL 908 775 4024 FAX 908 775 4011
ENERGY EFFICIENCY SERVICES

July 26, 1995

Mr. Ken Braitling
Enviro-Tech, Inc.
364 Broad Street
Keyport, New Jersey 07735-1619

Re: United States Naval Weapons Station - Earle
Colts Neck, Monmouth County, New Jersey
UST R-12 Closure/Abandonment

Dear Mr. Braitling:

I have reviewed the job site information concerning the above referenced facility. A single 2,000 gallon single walled steel underground storage tank (UST), used for the storage of heating oil, was exposed in an excavation directly adjacent to a single story brick office building. The depth to the top of the UST was approximately two (2) feet below the surface and the UST measured 5' 4" in diameter. During the removal of soils overlying the UST, it was discovered that a concrete anchor had been poured around the waist of the UST at the time of installation.

Subsequent to a review of the UST location relative to the footing of the building, and the fact that removal of the UST would be extremely difficult due to the concrete encasement, it was apparent that the UST could not be removed from the ground without extreme difficulty and without considerable danger of causing structural damage to the building.

Therefore, I am certifying that within the New Jersey Administration Code, Title 7, Environmental Protection, Chapter 4B, Underground Storage Tank Systems and Closure of Underground Storage Tank Systems, Section 7:14B-9.1 (D) 2, that the UST designated R-12 may be abandoned in place. The UST is extremely difficult to remove from the ground due to its location adjacent to the office building, and the UST has been installed in a bed of concrete.

Please feel free to contact me with any questions.

Sincerely,

John F. Hyfantis, P.E.



**CENTRAL PUMP & TANK
SERVICE CORP.**

August 8, 1995

Clean Fill Certification
For: Earle Naval Weapons Station
Highway 34
Colts Neck, NJ
Building R-12

To Whom it May Concern,

In regards to the fill material that was used at the above referenced location the fill was purchased from Millington Quarry and to the best of our knowledge is clean material.

Sincerely,

Central Pump & Tank



veritech

environmental and analytical services

Division of Hampton-Clarke, Inc.

**ENVIRO-TECH, INC.
NJDEP REDUCED PKG**

PROJECT: EARLE NAVAL WEAPONS

LAB # AA31315-AA31319

**NJDEP Cert. #14622, CT Cert. # PH0671
PADER Cert. #68-463, MA Cert. #NJ386
NYDOH Cert. # 11408**



Veritech

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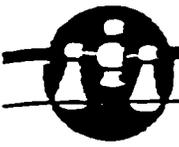


Veritech

SAMPLE KEY

<u>Enviro-Tech No.</u>	<u>VERITECH No.</u>
PE-1	AA31315
PE-2	AA31316
PE-3	AA31317
PE-4	AA31318
Field Blank	AA31319

000001



veritech

Division of Hampton-Clarke, Inc.

environmental and analytical services

CONDITION UPON RECEIPT FORM

Date Received JUNE 22, 1995

Filed By GERARD DIMIZIO

Client ENVIRO-TECH INC.

Lab Sample No(s) _____

PROJECT - EARLE NAVAL WEAPONS

CONDITION (Check Applicable Items)

- (1) Not enough sample sent for analysis
- (2) Sample(s) received broken (Specify) _____
Sample(s) received leaking (Specify) _____
- (3) Illegible sample number(s) or label(s) missing from bottle(s)
(Specify) _____
- (4) Numbers on sample(s) do not correspond to information on the
chain of custody record
- (5) No chain of custody record submitted with the samples
- (6) Samples received without a cooler
- (7) Custody seals missing or broken (circle one)
- (8) Holding time(s) exceeded upon receipt
(List parameters _____)
- (9) Samples received without proper refrigeration when deemed
necessary
- (10) Samples received without proper preservation (see Preservation
Form for actual pH readings)
- (11) Cooler Temperature Upon Receipt (Specify) 4°C
- (12) Other (Specify) _____

47 Carey Avenue • Butler, NJ 07405

Phone: (201) 492-8744

Fax: (201) 492-1815

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INTERNAL CHAIN OF CUSTODY RECORD

PARAMETER	SAMPLE No.	REMOVED FROM:				RETURNED TO:			
		COLDBOX No.	DATE	TIME (A/P)	SIGNATURE	COLDBOX No.	DATE	TIME (A/P)	SIGNATURE
% Solid + TPH(s)	31294, 31303, 31305, 31306	3	6/22	9:45	John Fojina	3	6/22	11:50	John Fojina
TPH (wash)	31294, 31307, 31308	3	↓	↓	↓	3	6/22	16:50	John Fojina
Flash Point	31307, 31308	3	6/22	9:45	John Fojina	3	6/22	↓	↓
on so / oil	31303, 31304, 31304	3	6/22	9:50	John Fojina	3	6/22	15:20	John Fojina
↓	31305	↓	↓	↓	↓	Sample returned	↓	↓	↓
CN	31289	↓	↓	↓	↓	Sample returned	↓	↓	↓
PA	31296	↓	↓	↓	↓	3	6/22	11:50	John Fojina
TSS + TS	31298	↓	6/22	11:30	John Fojina	↓	↓	↓	↓
TPH (wash)	PE-1, PE-2, PE-3, PE-4, PE-5, PE-6, PE-7, PE-8, PE-9, PE-10, PE-11, PE-12, PE-13, PE-14, PE-15, PE-16, PE-17, PE-18, PE-19, PE-20, PE-21, PE-22, PE-23, PE-24, PE-25, PE-26, PE-27, PE-28, PE-29, PE-30, PE-31, PE-32, PE-33, PE-34, PE-35, PE-36, PE-37, PE-38, PE-39, PE-40, PE-41, PE-42, PE-43, PE-44, PE-45, PE-46, PE-47, PE-48, PE-49, PE-50, PE-51, PE-52, PE-53, PE-54, PE-55, PE-56, PE-57, PE-58, PE-59, PE-60, PE-61, PE-62, PE-63, PE-64, PE-65, PE-66, PE-67, PE-68, PE-69, PE-70, PE-71, PE-72, PE-73, PE-74, PE-75, PE-76, PE-77, PE-78, PE-79, PE-80, PE-81, PE-82, PE-83, PE-84, PE-85, PE-86, PE-87, PE-88, PE-89, PE-90, PE-91, PE-92, PE-93, PE-94, PE-95, PE-96, PE-97, PE-98, PE-99, PE-100	3	↓	11:55	John Fojina	Sample flip	6/22	18:15	John Fojina
↓	(Earle No. 101 W. 100th)	↓	6/22	12:15	John Fojina	↓	↓	↓	↓
Phenol	31295	3	6/22/85	14:45 hrs	John Fojina	3	6/22	17:55	John Fojina
TD-WI	31214 → 228	3	6-22	14:50	G. Scott	3	6-22	15:20	G. Scott
reactive Series	31302	3	6/22	14:51	John Fojina	3	6/22	15:10	John Fojina
TD-WI	31214 → 228	3	6-23	10:20	G. Scott	3	6-23	11:00	G. Scott
TPH soil + % solid	31331 → 31354	3	6/23	12:50	John Fojina	3	6/23	14:50	John Fojina
Flash Point	31307, 31308	3	↓	↓	↓	Sample returned	↓	17:15	↓
TPH (wash)	31294	3	↓	↓	↓	↓	↓	↓	↓
% solid	31336	↓	↓	↓	↓	3	↓	↓	↓
TPH + % solid	JK	↓	↓	↓	JK 6/25/85	↓	↓	↓	↓
TPH % solid	31220	3	6/23	13:15	John Fojina	3	6/23/85	14:50	John Fojina
HAUT FT	31212	3	6/23/85	13:55	John Fojina	3	6/23/85	14:05	John Fojina
Phenol	31295	3	6/23/85	14:07	John Fojina	Sample returned	↓	17:05	John Fojina
TDS	31298	3	6/23/85	14:10	John Fojina	Sample returned	6/23/85	17:05	John Fojina
% solid	31230	3	6/23/85	14:10	John Fojina	Sample returned	6/23/85	↓	↓
↓	↓ 31230	↓	↓	↓	↓	3	↓	↓	↓
TD-WI	31240 → 254	3	6-24	09:20	G. Scott	3	6-24	11:20	G. Scott
Hex crone	31297	3	6/24/85	10:30 hrs	John Fojina	3	6/24/85	14:10 hrs	John Fojina
arb Pkts	68, 74	3	6/25/85	14:30	John Fojina	68, 74	6/25/85	14:40	John Fojina

*

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Sample I.D. AA31315
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 06/21/95
Date submitted: 06/22/95
Due date: 07/05/95
Specification checking: off
Descript: PE-1 SOIL

COL.DATE: 6/21/95

Analysis	Result	Unit	Finished Anl
-----	-----	-----	-----
%SOLIDS	79	PERCENT	06/22/95 JK
TPH-SOIL	62000	mg/kg dry wt	06/22/95 JK
TPH EXTRACTION	Completed		06/22/95 JK

End of progress report on sample: AA31315

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Sample I.D. AA31316
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 06/21/95
Date submitted: 06/22/95
Due date: 07/05/95
Specification checking: off
Descript: PE-2 SOIL

COL.DATE: 6/21/95

Analysis	Result	Unit	Finished Anl
-----	-----	-----	-----
%SOLIDS	80	PERCENT	06/22/95 JK
TPH-SOIL	53000	mg/kg dry wt	06/22/95 JK
TPH EXTRACTION	Completed		06/22/95 JK

End of progress report on sample: AA31316



Sample I.D. AA31317
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 06/21/95
Date submitted: 06/22/95
Due date: 07/05/95
Specification checking: off
Descript: PE-3 SOIL
COL.DATE: 6/21/95

Analysis	Result	Unit	Finished	Anl
-----	-----	-----	-----	-----
%SOLIDS	74	PERCENT	06/22/95	JK
TPH-SOIL	980	mg/kg dry wt	06/22/95	JK
TPH EXTRACTION	Completed		06/22/95	JK

End of progress report on sample: AA31317



Sample I.D. AA31318
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 06/21/95
Date submitted: 06/22/95
Due date: 07/05/95
Specification checking: off
Descript: PE-4 SOIL

COL.DATE: 6/21/95

Analysis	Result	Unit	Finished Anl
-----	-----	-----	-----
%SOLIDS	72	PERCENT	06/22/95 JK
TPH-SOIL	8400	mg/kg dry wt	06/22/95 JK
TPH EXTRACTION	Completed		06/22/95 JK

End of progress report on sample: AA31318



Sample I.D. AA31319
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE
CONTAIN: 2

Date collected: 06/21/95
Date submitted: 06/22/95
Due date: 07/05/95
Specification checking: off
Descript: FIELD BLANK

COL.DATE: 6/21/95

Analysis	Result	Unit	Finished Anl
-----	-----	-----	-----
pH (VOA VIALS)	<2	UNITS	06/23/95 AS

End of progress report on sample: AA31319



VERITECH
47 CAREY AVE., BUTLER, NJ 07405
REPORT OF ANALYSIS

CT. NO: PH-0671
MADEP NO: NJ386
PADER NO: 68-463
NJDEPE NO: 14622
NYDOH NO: 11408

TO: ENVIRO-TECH, INC.
364 BROAD STREET
KEYPORT, N.J. 07735
(908) 888-1300

Date Collected: 06/21/95
Date Submitted: 06/22/95
Date Reported: 07/06/95
Project: EARLE

Sample I.D.	AA31315				AA31316	
Sample Description	PE-1 SOIL				PE-2 SOIL	
Analyte	Units	MDL	Result	MDL	Result	
%SOLIDS	PERCENT	1.0	79	1.0	80	
TPH-SOIL	mg/kg dry wt	1300	62000	2500	53000	
Sample I.D.	AA31317				AA31318	
Sample Description	PE-3 SOIL				PE-4 SOIL	
Analyte	Units	MDL	Result	MDL	Result	
%SOLIDS	PERCENT	1.0	74	1.0	72	
TPH-SOIL	mg/kg dry wt	27	980	280	8400	
Sample I.D.						
Sample Description						
Analyte	Units	MDL	Result			
%SOLIDS						
TPH-SOIL						

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Stanley Gilewicz
Stanley Gilewicz - Laboratory Director



INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA31315
Sample Matrix: SOIL
% Solids: 79

Date Received: 6/22/95
Date Extracted: 6/22/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	PE-1 soil	62000	50	1300	6/22/95



INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA31316
Sample Matrix: SOIL
% Solids: 80

Date Received: 6/22/95
Date Extracted: 6/22/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	PE-2 soil	53000	100	2500	6/22/95



INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA31317
Sample Matrix: SOIL
% Solids: 74

Date Received: 6/22/95
Date Extracted: 6/22/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	PE-3 soil	980	1	27	6/22/95



INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA31318
Sample Matrix: SOIL
% Solids: 72

Date Received: 6/22/95
Date Extracted: 6/22/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	PE-4 soil	8400	10	280	6/22/95



INORGANIC METHOD BLANK SUMMARY

Lab Name: Veritech
Lab Codex: 14622

Blank Matrix: Soil
Units: mg/kg

Analyte	Practical Quant Limit	Batch Number	Method Blank Result
TPH	20	383s	ND

000020



analysis TPH SOILS
 BATCH 383
 DATE: 29-Jun-95
 ANALYST: JK

O.C. DATA

	THEORETICAL		% REC.
	VALUE	RESULT	
	PPM	PPM	
CK STD	10	10.6	106%
MBS	666.7	681.54	102%
MS #1	952.38	1042.16	105%
MS #2	952.38	967.25	97%
SAMPLE		45.86	RPD
SAMPLE DUP		50.58	9.79%

SAMPLE #	SOLIDS FACTOR	SAMPLE MG WEIGHT	CALC. FROM CURVE	DILUT. FACTOR	TPH (PPM)	MDL DRY WT.
10mg 6-22	1.00	1000.0	10.5977	1.0	10.60	
MBS	1.00	15.0	10.2231	1.0	681.54	20.00
DUP 31306	0.70	15.0	0.5311	1.0	50.58	28.57
MS 31306	0.70	15.0	10.9426	1.0	1042.16	28.57
MSD 31306	0.70	15.0	10.1561	1.0	967.25	28.57
MB 6-22	1.00	15.0	0.2309	1.0	15.39	20.00
31306	0.70	15.0	0.4815	1.0	45.86	28.57
31303	0.85	15.0	11.4836	50.0	45033.59	1176.47
31315	0.79	15.0	14.8060	50.0	62472.67	1265.82
31316	0.80	15.0	6.3374	100.0	52811.25	2500.00
31317	0.74	15.0	10.8434	1.0	976.88	27.03
31318	0.72	15.0	9.0966	10.0	8422.74	277.78
MB 6-23	1.00	15.0	0.1788	1.0	11.92	20.00
10mg 6-24	1.00	1000.0	10.3471	1.0	10.35	20.00
31331	0.87	15.0	18.7786	5.0	7194.86	114.94
31332	0.87	15.0	19.0664	5.0	7305.14	114.94
31333	0.86	15.0	14.0219	5.0	5434.86	116.28
31334	0.89	15.0	15.4338	2.0	2312.18	44.94
31320	0.97	15.0	0.9579	1.0	65.84	20.62
MB 6-27	1.00	15.0	0.1937	1.0	12.91	20.00
10mg 6-28	1.00	1000.0	10.6623	1.0	10.66	20.00
31374	0.87	15.0	1.3648	1.0	104.58	22.99
31375	0.82	15.0	0.5063	1.0	41.16	24.39
31376	0.89	15.0	0.9852	1.0	73.80	22.47
31377	0.88	15.0	0.3698	1.0	28.02	22.73
31378	0.84	15.0	0.5460	1.0	43.33	23.81
31379	0.90	15.0	0.6254	1.0	46.33	22.22
31380	0.94	15.0	0.4542	1.0	32.21	21.28
31381	0.93	15.0	0.4319	1.0	30.96	21.51
31382	0.93	15.0	0.5658	1.0	40.56	21.51

*VDMA UNIT
6/29/95 JB*

*JK
6/29/95*



TPH LINEAR REGRESSION
TPH_1S

DATE 5-11-95
ANALYST JS

STDS (MG)
0
2.5
5
10
15
20

ABS.
0.0000
0.1122
0.2058
0.4037
0.5974
0.8177

Regression Output:

Constant 0.003495
Std Err of Y Est 0.008116
R Squared 0.999453
No. of Observations 6
Degrees of Freedom 4

X Coefficient(s) 0.040301
Std Err of Coef. 0.000471

Lot # W-95-TPH-1522

STDS (MG)	ABS.	PPH	DIFF
0	0.0000	-0.0867	0.0867
2.5	0.1122	2.6973	-0.1973
5	0.2058	5.0198	-0.0198
10	0.4037	9.9303	0.0697
15	0.5974	14.7365	0.2635
20	0.8177	20.2028	-0.2028

BATCH 383

SAMPLE	ABS.	MG
10mg 6-22	0.4306	10.5977
MBS	0.4155	10.2231
DUP 31306	0.0249	0.5311
MS 31306	0.4445	10.9426
MSD 31306	0.4128	10.1561
MB 6-22	0.0128	0.2309
31306	0.0229	0.4815
31303	0.4663	11.4836
31315	0.6002	14.8060
31316	0.2589	6.3374
31317	0.4405	10.8434
31318	0.3701	9.0966
MB 6-23	0.0107	0.1788
10mg 6-24	0.4205	10.3471
31331	0.7603	18.7786
31332	0.7719	19.0664
31333	0.5686	14.0219
31334	0.6255	15.4338
31320	0.0421	0.9579
MB 6-27	0.0113	0.1937
10mg 6-28	0.4332	10.6623
31374	0.0585	1.3648
31375	0.0239	0.5063
31376	0.0432	0.9852
31377	0.0184	0.3698
31378	0.0255	0.5460
31379	0.0287	0.6254
31380	0.0218	0.4542

JK
6/29/95

DATA W/ST
6/29/95 JS

000025