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NWS EARLE
5090.3a

SITE INVESTIGATION REPORT SUMMARY OF FINDINGS FOR UNDERGROUND STORAGE
TANK C-16 NWS EARLE NJ
10/6/1995
ENVIRO-TECH, INC.

ITEM (18)

BOX 1

CLOSURE REPORT

C-16

00000391

**SITE INVESTIGATION REPORT
SUMMARY OF FINDINGS FOR UST C-16**

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

October 6, 1995

Prepared for:

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

Prepared by:

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

CLOSURE REPORT
C-16

ITCN (18)
BOX 1

EARLE FILES
BOX #
C-18
LOOSE

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Colts Neck, Monmouth County, New Jersey

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Prepared for:

Tom Dunn
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63-7671-1095

Prepared by:

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

UST-014
2/91



FOR STATE USE ONLY

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 OCTOBER 6, 1995

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. _____

II. DISCHARGE REPORTING REQUIREMENTS

- A. Was contamination found? Yes No If Yes, Case No. _____
(Note: All discharges must be reported to the Environmental Action Hotline (609) 292-7172)
- B. The substance(s) discharged was(were) NONE
- 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:

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

C. Soil samples and borings (check appropriate answer)

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

D. Ground Water Monitoring NONE

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

V. SOIL CONTAMINATION

- A. Was soil contamination found? ___ Yes X No
If "Yes", please answer Question B-E
If "No", please answer Question B

- B. The highest soil contamination still remaining in the ground has been determined to be:
1. N/A ppb total BTEX, N/A ppb total non-targeted VOC
 2. N/A ppb total B/N, N/A ppb total non-targeted B/N
 3. 120 ppm TPHC
 4. N/A ppb _____ N/A (for non-petroleum substance)

C. Remediation of free product contaminated soils

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

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

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

VI. GROUND WATER CONTAMINATION 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 

COMPANY NAME ENVIRO-TECH, INC. DATE OCT. 6, 1995
(Preparer of Site Assessment Plan)

CERTIFYING ORGANIZATION STATE OF NEW JERSEY CERTIFICATION NUMBER 0010953

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

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

NAME (Print or Type) Steven Pinsky SIGNATURE Steve Pinsky
COMPANY NAME CENTRAL Pump & Tank DATE 10/2/95
(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) _____ SIGNATURE _____
COMPANY NAME _____ DATE _____

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- II. UST DISPOSAL MANIFEST
- III. 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 550 gallon diesel fuel UST (designated C-16) at their facility (UST Registration #0151003).

In September, 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 C-16. ETI's activities at Earle included the completion of a Site Investigation for the closure of the single diesel fuel UST 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*.

2.0. SITE INVESTIGATIONS

2.1 UST Decommissioning Activities

UST decommissioning and removal activities were conducted on September 12, 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 off the top of 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 30 gallons of residual product and bottom sludge was removed from the single 550 gallon UST present at the facility 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 I.

During inspection of the UST, no corrosion holes or pitting were observed within the UST by ETI and CP&T personnel. Following removal, the UST was trucked from the facility to Mazza & Sons, Inc. Metal Recyclers located in Tinton Falls, New Jersey for disposal. A copy of the manifest received by CP&T for the disposal of the single steel UST is included in Appendix II.

2.2 Soil Investigation

On September 12, 1995, ETI personnel (A. Lee Fankhauser-NJDEP License No.0010916) was on-site to locate and collect post-excavation soil samples from below the UST in accordance with current NJDEP requirements.

During the removal/closure of the UST at the Earle facility, soils removed from above and from the sides 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 the excavation created for the removal of UST C-16, no potentially contaminated soils were identified by ETI personnel. Soil removed from the UST excavation was used as backfill following the completion of site investigation activities. Soils underlying the surface in the vicinity of UST C-16 consisted of the following:

0' - 6.0' Brown silty, gravelly coarse to fine SAND.

Ground water was observed within the excavation following the removal of soil at a depth of approximately 6.5 feet below grade.

Following the removal of UST C-16, a total of four (4) post-excavation soil samples (C16-1 through C16-4) were collected from the

bases of the four (4) sidewalls of the excavation from a depth of approximately six (6) feet below grade.

Post-excavation soil samples collected from UST C-16's excavation 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 post-excavation soil samples collected from the single UST excavation, 25% of those samples would be analyzed for the additional parameters VO+10 and total xylene. If the results 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 post-excavation soil 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.

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.

The locations and designations of post-excavation soil samples collected from the excavation created for the removal of UST C-16 are included in Figure 3.

Following the collection of post-excavation soil samples from the base of UST C-16's excavation, the excavation was backfilled with the clean material that had been excavated for the removal of the UST. As the UST was located in a fairly remote area within the Earle complex, no additional fill material was used to backfill the excavation.

3.0 RESULTS

3.1 Chemical Analysis of Soil

A total of four (4) post-excavation soil samples were collected from the base of the UST excavation (post-excavation soil sample locations C16-1 through C16-4) from a depth of approximately six (6) feet below grade. The analytical results of the post-excavation soil samples collected from these sample locations indicated that post-excavation soil sample C16-1 contained a TPH concentration of 120 ppm, post-excavation soil sample C16-2 contained a non-detectable (ND) TPH concentration, post-excavation soil sample C16-3 contained a ND TPH concentration, and post-excavation soil sample C16-4 contained a

ND TPH concentration.

As no post-excavation soil sample resulted in a TPH concentration greater than 1,000 ppm, no additional sample parameters for the soil samples were required. The field blank sample was also not required.

Results of the post-excavation soil sampling program for UST C-16 are included in Table 2. The laboratory analytical package for UST C-16's Site Investigation is included in Appendix III.

4.0 CONCLUSIONS

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

- A single formerly existing 550 gallon diesel fuel UST at the Earle facility was removed on September 12, 1995;
- Upon inspection, the UST was found to be in good condition with no apparent corrosion holes or pitting;
- No indications of a discharge were observed in the soils underlying the UST;
- As the soil removed from the excavation resulted in no FID readings greater than 30 units, the excavated soil was used as backfill within the excavation;
- Ground water was observed within the UST excavation following the removal of the single UST at a depth of approximately 6.5 feet;
- Post-excavation soil samples were collected from the base of each of the excavation's four (4) sidewalls, from approximately 6 inches above the soil/ground water interface;
- None of the four (4) post-excavation soil samples collected from the base of the UST excavation resulted in a TPH concentration of greater than 120 ppm;
- As no post-excavation soil sample resulted in a TPH concentration greater than 1,000 ppm, no additional analyses were required.

5.0 RECOMMENDATIONS

Following a review of the analytical data collected during ETI's Site Investigation at UST C-16, it is ETI's opinion that no further action should be required of Earle for the removal/closure of this UST.

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

FIGURES

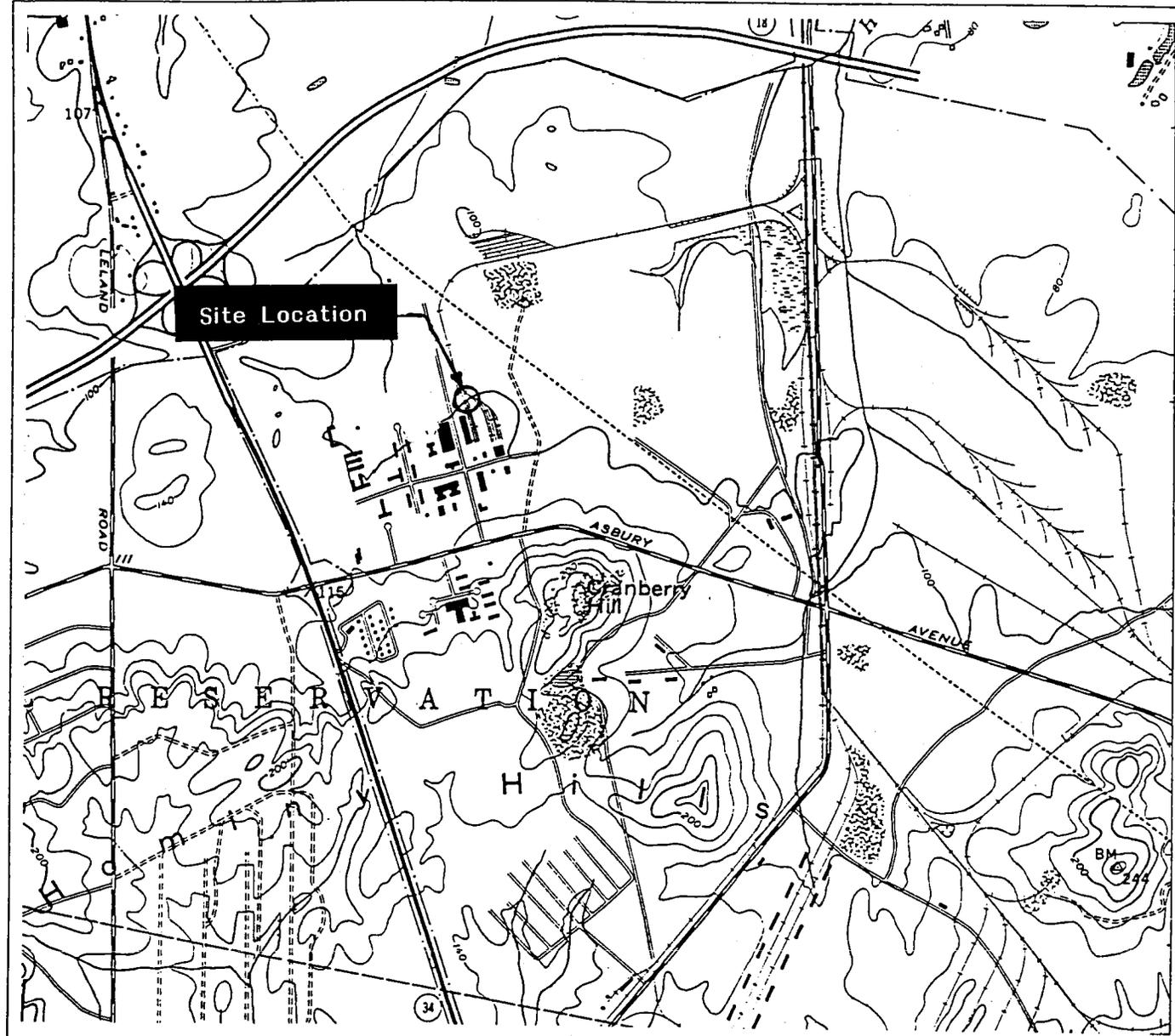
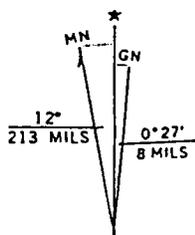
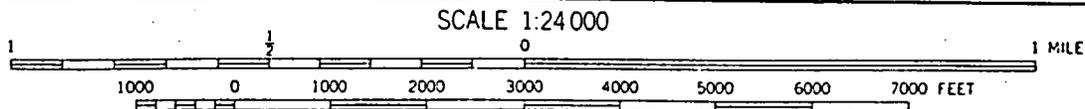


Figure 1
SITE LOCATION PLOT

United States Naval Weapons Station - Earle
Colts Neck, New Jersey



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

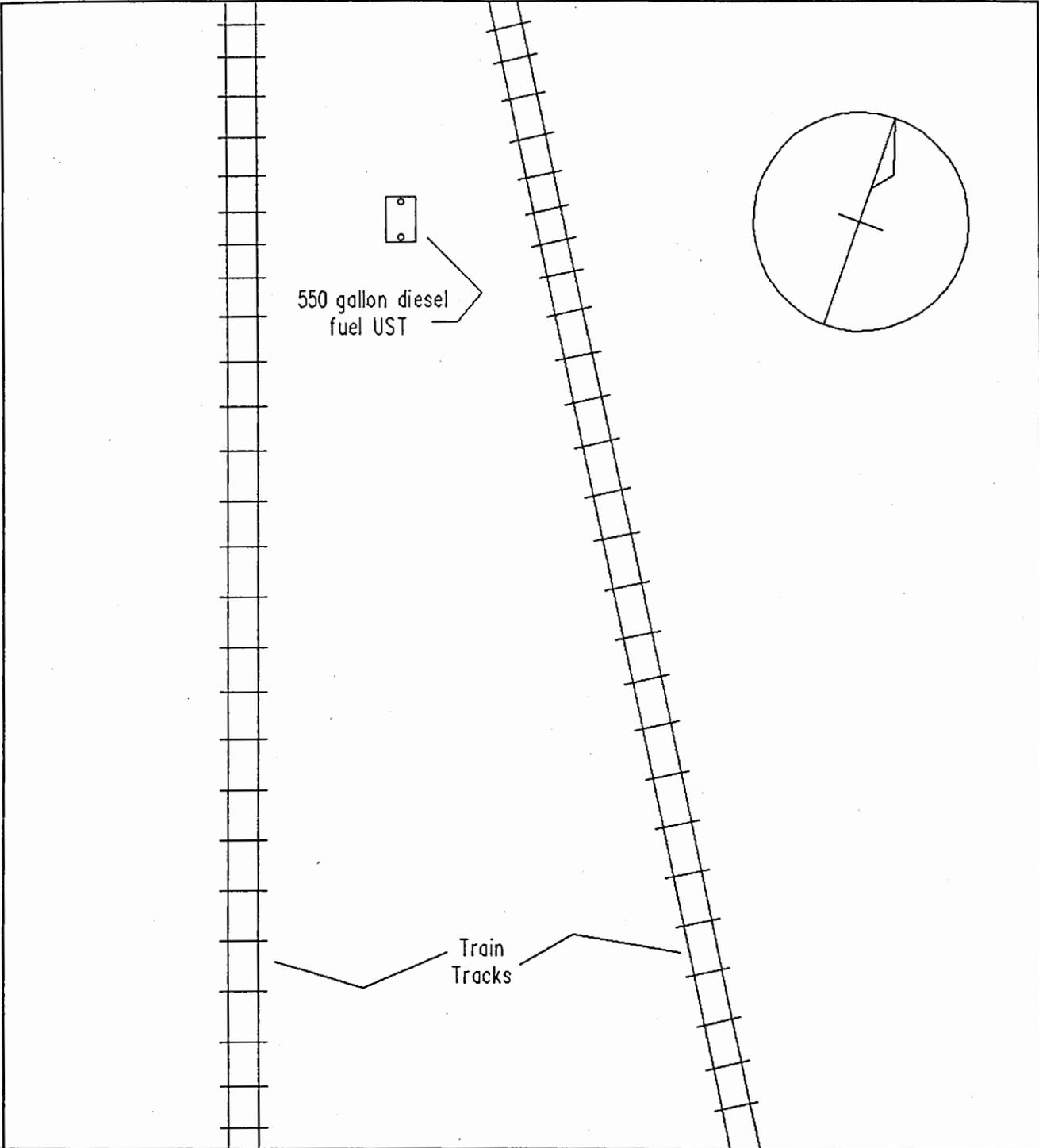


Figure 2
SITE PLAN

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

Scale: 1" = 20'

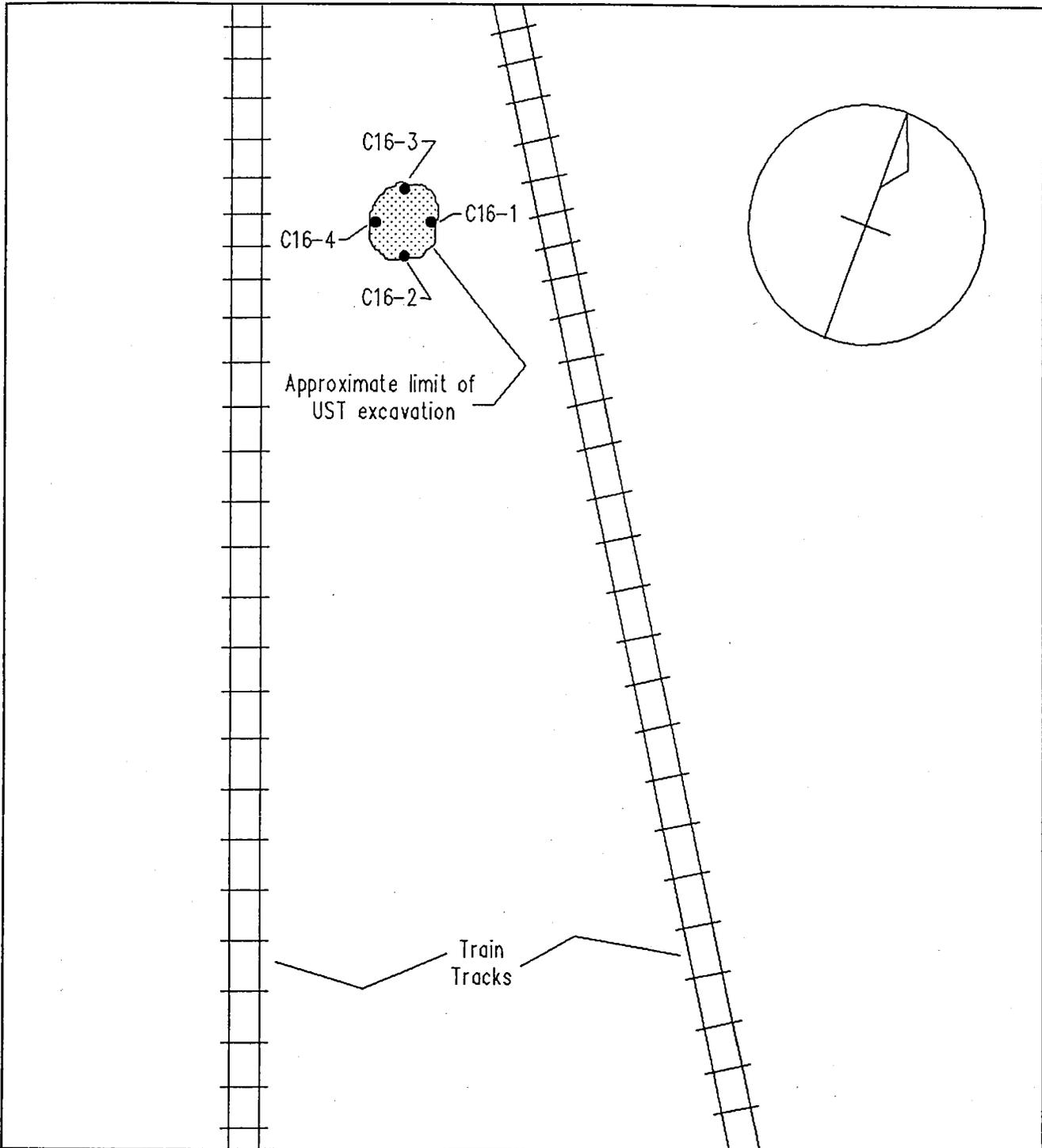


Figure 3

Post-excavation Soil Sample Location Plot

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

Scale: 1" = 20'

TABLES

TABLE 1

**SUMMARY OF TPH ANALYTICAL RESULTS FOR DIESEL FUEL
UST POST-EXCAVATION SOIL SAMPLES**

United States Naval Weapons Station Earle
Monmouth County, New Jersey

Underground Storage Tank C-16

(September 12, 1995)

<u>SAMPLE #</u>	<u>TPH RESULT (ppm)</u>
PE-1	120
PE-2	ND
PE-3	ND
PE-4	ND

Notes: ND = Compound was not detected.

APPENDIX I

RESIDUAL PRODUCT AND BOTTOM SLUDGE DISPOSAL MANIFEST

**USED OIL CERTIFICATION**Company's Name: X _____Manifest No. or Bill of Lading: NITA - 2204757Date: 9-12-95

I hereby certify, to the best of my knowledge, that the used oil contained in this shipment does not contain regulated hazardous wastes as defined in 40 CFR 261. The oil has been collected from either or both of the following:

- A. Small quantity generators exempt as they generate less than 100 kilograms (approximately 220 pounds or 30 gallons) per month of hazardous waste.
- B. Small quantity generators exempt from manifest rules relative to waste oils listed in N.J.A.C. 7:26-8.14(a) as they only generate less than 1,001 gallons per month of waste oils, only generate fuel oil tank clean out waste oils in any amount, and automotive service stations who generate only waste oil.
- C. Large quantity generators that generate more than 100 kilograms per month of hazardous waste and/or more than 1,001 gallons per month of waste oils. Their waste stream has been tested to verify either total halogens are less than 1000 ppm, or total halogens exceed 1000 ppm but the halogen content has been rebutted and shown not to contain significant quantities of listed halogenated solvents.

Print Name and Title: X DENNIS SWANWELLENV. PROTECTION SPECIALISTSignature: X Dennis Swanwell



GENERATOR CERTIFICATION

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

NJA-2204757 dated 9-12-95

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

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

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

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

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

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

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

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

I am duly authorized to sign said certification.

Generator NWS EARLE

Generator's EPA ID No. NJD 170022172

Address HWY 34 COLTS NECK NJ

Print Name DENNIS SWA/WEILL Signature Dennis Swa/Weill

Title ENVIRONMENTAL PROTECTION SPECIALIST

Date 9/12/95



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



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

Form Approved - OMB No. 2050-0182 Expires 2-00

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ1017002217204757		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address NAVAL Weapons Station Earle Hwy 34, Colts Neck, NJ		4. Generator's Phone 866-239-2464 (908) 866-2674		5. State Manifest Document Number NJA 2204757		6. State Generator's ID (Gen. Site Address) Same			
6. Transporter 1 Company Name LIONETTI OIL RECOVERY CO., INC.		7. Transporter 1 US EPA ID Number NJ1D081410141016141		7. State Trans. ID-NJDEPE 56247		Decal No.			
7. Transporter 2 Company Name		8. Transporter 2 US EPA ID Number		D. Transporter's Phone 908 721-0900		E. State Trans. ID-NJDEPE			
9. Designated Facility Name and Site Address LIONETTI OIL RECOVERY CO., INC./DBA LORCO PETROLEUM SVCS. RUNYON & CHEESEWAKE ROADS OLD BRIDGE NJ 08857		10. Designated Facility US EPA ID Number NJ1D081410141016141		F. Transporter's Phone		G. State Facility's ID		H. Facility's Phone 908 721-0900	
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) HM		12. Containers		13. Total Quantity		Unit		Waste No.	
a. <input checked="" type="checkbox"/> PETROLEUM OIL (PETROLEUM OIL) COMBUSTIBLE LIQUID UN 1270 PG III		No. 001		Type T		Quantity 00030		Unit X	
b.		c.		d.		e.		f.	
J. Additional Descriptions for Materials Listed Above T,L PETROLEUM OIL 99 % WATER 1 %		K. Handling Codes for Wastes Listed Above T04-FILTRATION							
15. Special Handling Instructions and Additional Information NOT EPA REGULATED, REGULATED AS HAZARDOUS WASTE IN NEW JERSEY 24 HOUR EMERGENCY RESPONSE # (908) 721-0900 DECAL # 63478 ERG# 27 DEXSIL TEST KIT RESULTS <1000 %									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name X Dennis Swallow		Signature <i>Dennis Swallow</i>		Month Day Year 09 11 1995					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Randall C Conklin		Signature <i>Randall C Conklin</i>		Month Day Year 09 11 1995					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year					
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name		Signature		Month Day Year					

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection and Energy. (609) 282-7172

SIGNATURE AND INFORMATION MUST BE EMBLE ON ALL COPIES



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

STANDARD
COLLECTION
ORDER FORM

108579

GENERATOR/LOCATION		OFFICE USE ONLY		BILL TO (IF DIFFERENT FROM LOCATION)	
NAME		NAME		NAME	
INFORMATION/UTILIZATION LINE		INFORMATION/UTILIZATION LINE		ACCOUNT/ APPROVAL CODE	
DELIVERY ADDRESS		DELIVERY ADDRESS			
CITY	STATE	CITY	STATE		
PHONE NUMBER		PHONE NUMBER		PURCHASE ORDER NUMBER	
USA EPA ID NO. (IF APPLICABLE)	STATE ID NO.			MANIFEST NUMBER	2508757

SHIPPING INFORMATION

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

NO.	TYPE	QTY	UNIT	US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)	SALES REPRESENTATIVE
1	WT	30	Gallon	Residual Oil - C.M.S. Res. Liquid (W1120)	

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT OF MEASURE	PRICE	TAX	LINE TOTAL
40500	USED OIL REMOVAL						
40501	OIL WATER DISPOSAL	1722	30	Gallon			
40502	SLUDGE DISPOSAL						
41000	NON HAZARDOUS DISPOSAL						
41001	RCRA WASTE DISPOSAL						
41500	VAC TRUCK & OPERATOR	9:00 AM - 11:30 A.M.					
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 1 1/2% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT LORCO SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION INCLUDING REASONABLE ATTORNEY'S FEES.

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

Generator certifies that the waste is 1722 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.

Central Pump & Tank

Print Name: _____ Title: _____
Signature: [Signature] Date: 9-12-95

GENERATOR/CUSTOMER

SMALL QUANTITY GENERATOR CERTIFICATION

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

[Signature]
GENERATOR'S SIGNATURE

PAYMENT RECEIVED SECTION

CASH TOTAL RECEIVED _____

CHECK NUMBER _____

PAYMENT MADE SECTION

PAYMENT METHOD: CASH CHECK

PAYMENT AMOUNT: _____

RECEIVED BY: _____

CUSTOMER'S SIGNATURE: _____

LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL/CDT TEST RESULTS: 61000 PPM

In accordance with 40 CFR 268 § 43(5) LORCO has notified the US EPA of its location and used oil management activities.

Randall L. Cashlan
Print Name: _____
[Signature] Date: 9-12-95
LORCO REPRESENTATIVE

APPENDIX II
UST DISPOSAL MANIFEST

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

NO. _____
 DATE 12-5-1995

C-16

Customer's Name Central Pumping

Address _____

Make of
Autos

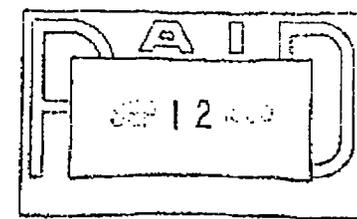
Tires

Tank

16840 LB 6

~~16180 LB 5~~

700



Weight Price

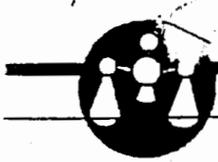
Cast Iron		
<u>Steel</u>	<i>21.00</i>	
Lt. Iron		
Copper #1		
Copper #2		
Lt. Copper		
Brass		
Alum Clean		
Lead		
Stainless		
Radiators		
Battery		

TOTAL AMOUNT:

Waiver

Customer *D. P. [Signature]*

APPENDIX III
LABORATORY ANALYTICAL REPORT



veritech

Division of Hampton-Clarke, Inc.

environmental and analytical services

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

**PROJECT: EARLE NAVAL
WEAPONS**

LAB # AA33182-AA33186

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

47 Carey Avenue • Butler, NJ 07405

Phone: (201) 492-8744

Fax: (201) 492-1815

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SAMPLE KEY

Enviro-Tech No.

VERITECH No.

C16-1

AA33182

C16-2

AA33183

C16-3

AA33184

C16-4

AA33185

FIELD BLANK

AA33186

CHAIN-OF-CUSTODY RECORD

SAMPLER (Signature) [Signature]
Phone 95-888-1300

Date Shipped _____
Airbill No. _____

Carrier GDM
Cooler No. _____

SHIP TO:

SEND RESULTS TO:

ATTENTION: _____

Client Name _____
Company ENVIRO-TECH, INC.
Address 354 BROAD ST.
KEYPORT NJ
Phone 958-888-1300

PROJECT NAME EARLE NAVAL WEAPONS PROJECT NO. _____ P.O. NO. _____

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date 9/13/95 Military Time 0955
Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date 9/13/95 Military Time 1200
Relinquished by: (Signature) _____ Received at lab by: (Signature) _____ Date _____ Military Time _____

Relinquished from lab by: (Signature) _____ Received by: (Signature) _____ Date _____ Military Time _____

ANALYSIS REQUEST

Sample ID Number	Sample Description	Date/Time Sampled	Analysis Requested	Sample Condition Upon Receipt
2 C16-1	Soil	9/14/95 13:07	TPH*, VOTIO, TOTAL XYLENE	cool AA33187
2 C16-2	↓	↓ 13:12	↓	33187
2 C16-3	↓	↓ 13:16	↓	33184
2 C16-4	↓	↓ 13:20	↓	33185
2 FIELD BLANK	AQUEOUS	↓ 13:00	VOTIO, XYLENE, ATBE, TBA**	↓ 33186

Special Instructions/Comments:

* PLEASE ANALYZE SAMPLES FOR TPH FIRST. IF RESULTS SHOW A CONCENTRATION GREATER THAN 1,000 PPM, PLEASE CONTACT ETI OFFICE FOR AUTHORIZATION OF ADDITIONAL ANALYSES.

** PLEASE ANALYZE FIELD BLANK ONLY IN THE EVENT THAT VOTIO AND XYLENE ARE REQUIRED ANALYSES FOR SOIL

NOTE: UNUSED PORTIONS OF NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Expected Analytical T.A.T.'s: _____ Immediate Attention (200% surcharge) 24 HOUR. FAT RUSH (50-100% surcharge) _____ Standard _____

CONDITION UPON RECEIPT FORM

Veritech

Date Received: Sept. 13 1995 Filed By: Gerard D. Mizio
Client: ENVIRO-Tech INC. Lab Sample No(s): _____
Project - EARLE NAVAL WEAPONS

YES	NO	INITIAL CONDITIONS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[1] Is there a corresponding Chain of Custody included with the samples?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[2] Are the samples in a container such as a cooler or ice chest?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[3] Are the custody seals intact? IF NO, please circle one of the following: missing broken
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[4] Please specify the temperature inside the container. <u>2</u> °C

YES	NO	SAMPLE INFORMATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[5] Are the samples properly refrigerated (where required)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[6] Are the samples within holding times for the parameters listed on the COC? If NO, list parameters and associated samples: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[7] Are all of the sample bottles intact? If NO, specify sample numbers below: broken: _____ leaking: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[8] Are all of the sample labels or numbers legible? If NO, specify: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[9] Do the contents of the container match the COC? If NO, specify: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[10] Is there enough sample sent for the analyses listed on the COC? If NO, specify: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	[11] Are the samples preserved correctly (see Preservation Form for actual pH readings)?

YES	NO	OTHER
<input type="checkbox"/>	<input type="checkbox"/>	[12] Specify: _____

NO.	ACTION	CORRECTIVE ACTIONS
_____	_____	_____
_____	_____	_____
_____	_____	_____



veritech

Division of Hampton-Clarke, Inc.

environmental and analytical services

PRESERVATION DOCUMENTATION FORM

Date Received Sept. 13, 1995

Filed By Gerard DiMizio

Client Enviro-Tech Inc.

Lab Sample No(s) _____

Protect - Earle Naval

SAMPLE ID	CONTAINER SIZE	CONTAINER TYPE (P,G)	PARAMETER	PRESERVATIVE	pH
F13	40 ml.	GLASS	MIRE-TBA VOTO, Xylenes	HCL	2

PRESERV

47 Carey Avenue • Butler, NJ 07405

Phone: (201) 492-8744

Fax: (201) 492-1815

0004

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
%Solids/TPH	33099 - 33109	3	9/08	1005	[Signature]	3	9/08	1100	[Signature]
% Solids	33110 - 33116+17	3	9/08	1300	[Signature]	3	9/08	1000	[Signature]
Metals-TD	33067, 33068, 33065	3	9/11	0830	R. Hess	3	9/11	08:55	R. Hess
Metals-TD	33006, 33009, 33018, 33019	3	9/11	0835	[Signature]	3	9/11	12:10	R. Hess
BV, DIST/PLP	33002, 33117, 329174	3	9/11	09110	R.R.	3	9/11	09:35	R. Hess
%Solids/TPH	33118 - 33127	3	9/11	10:00	[Signature]	3	9/11	1440	[Signature]
% Solids	33146 - 33148	3	9/11	10:00	[Signature]	3			
R3/RCW	33117	3	9/11	1100	[Signature]	3			
Metals-TD	33129, 33131-33134	3	9/11	14:00	R. Hess	3	9/11	14:30	R. Hess
HEPB	32751 - 754	3	9/12	09:05	R. Hess	3	9/12	12:25	R. Hess
Metals-TD	33002	3	9/12	09:05	R. Hess	3	9/11	09:35	R. Hess
TPH	33123	3	9/12	1430	[Signature]				
O+G	33020 + 33021	3	9/12	1500	[Signature]	Depleted	9/12	1615	[Signature]
TPH-MET	33167, 33168, 33151, 33145	3	9/12	15:15	S. Paranthan	3	9/12	15:50	S. Paranthan
Ph + 19N	33117, 33151, 33145	3	9/12	1615	[Signature]				
TPH-ME	33181	3	9/12	16:35	S. Paranthan	3	9/12	16:45	S. Paranthan
TCW	33149 + 33150	3	9/13	0950	[Signature]	Depleted	9/13	0950	[Signature]
GC/MS	33110 - 33115	3	9/13	14:00	[Signature]	8			
%Solids/TPH	33151, 33186 - 33185, 33162	3	9/13	1515	[Signature]	3	9/13	1615	[Signature]
% Solids	33178 - 33179, 33181, 33153 -	3	9/13	1515	[Signature]				
↓	33157 33145	↓	↓	↓		↓	↓	↓	
BN	33187	3	9/13	16:00	R. Hess	3	9/13	16:17	R. Hess
BN	32966	3	9/13	17:00	R. Hess				
GC/MS	33162	2		17:25	[Signature]	8			
TOX	33161, 33181, 33182, 33183	3	9/14	1410	[Signature]	3	9/14	1650	[Signature]
GC/MS	33181, 33182 - 190	3		14:31	[Signature]	8			
↓	33181, 33183	3		16:19	[Signature]	8			
Metals TD	33146 - 33148, 33153 - 33160	3	9/15	08:15	R. Hess	3	9/15	10:30	R. Hess
Ph/19N	33162, 33181	3	9/15	09:30	[Signature]				

(*)

0000

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 09-27-1995 Time: 17:17:48

Sample I.D. AA33182
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE NAVAL
CONTAIN: 2

Date collected: 09/12/95
Date submitted: 09/13/95
Due date: 09/26/95
Specification checking: off
Descript: C16-1 SOIL
COL.DATE: 09/12/95

Analysis	Result	Unit	Finished	Anl
-----	-----	-----	-----	-----
%SOLIDS	88	PERCENT	09/13/95	JS
TPH-SOIL	120	mg/kg dry wt	09/14/95	JS
TPH EXTRACTION	Completed		09/14/95	JS

End of progress report on sample: AA33182

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 09-27-1995 Time: 17:17:49

Sample I.D. AA33183
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE NAVAL
CONTAIN: 2

Date collected: 09/12/95
Date submitted: 09/13/95
Due date: 09/26/95
Specification checking: off
Descript: C16-2 SOIL
COL.DATE: 09/12/95

Analysis	Result	Unit	Finished Anl
-----	-----	-----	-----
%SOLIDS	87	PERCENT	09/13/95 JS
TPH-SOIL	Not detected	mg/kg dry wt	09/14/95 JS
TPH EXTRACTION	Completed		09/14/95 JS

End of progress report on sample: AA33183

0007

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 09-27-1995 Time: 17:17:51

Sample I.D. AA33184
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE NAVAL
CONTAIN: 2

Date collected: 09/12/95
Date submitted: 09/13/95
Due date: 09/26/95
Specification checking: off
Descript: C16-3 SOIL
COL.DATE: 09/12/95

Analysis	Result	Unit	Finished	Anl
-----	-----	-----	-----	-----
%SOLIDS	91	PERCENT	09/13/95	JS
TPH-SOIL	Not detected	mg/kg dry wt	09/14/95	JS
TPH EXTRACTION	Completed		09/14/95	JS

End of progress report on sample: AA33184

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 09-27-1995 Time: 17:17:52

Sample I.D. AA33185
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE NAVAL
CONTAIN: 2

Date collected: 09/12/95
Date submitted: 09/13/95
Due date: 09/26/95
Specification checking: off
Descript: C16-4 SOIL
COL.DATE: 09/12/95

Analysis	Result	Unit	Finished An]
-----	-----	-----	-----
%SOLIDS	93	PERCENT	09/13/95 JS
TPH-SOIL	Not detected	mg/kg dry wt	09/14/95 JS
TPH EXTRACTION	Completed		09/14/95 JS

End of progress report on sample: AA33185

SAMPLE PROGRESS REPORT

Veritech (Hampton Clarke)
Date: 09-27-1995 Time: 17:17:53

Sample I.D. AA33186
Status: Complete and inactive
Priority: 24 HR TA
Deliverables: REDUCED
Client ID: ENVIRO
Project Account Code: EARLE NAVAL
CONTAIN: 2

Date collected: 09/12/95
Date submitted: 09/13/95
Due date: 09/26/95
Specification checking: off
Descript: FIELD BLANK
COL.DATE: 09/12/95

Analysis	Result	Unit	Finished Anl
pH (VOA VIALS)	<2	UNITS	09/18/95 AS

End of progress report on sample: AA33186

0010

METHOD REFERENCES

Volatile Organics (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 8240.

Volatile Organics (Waters): *Federal Register*, 40 CFR Part 136, October 26, 1984, Method 624.

TCLP Volatile Organics: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 1311 and 8240.

Volatile Organics (Drinking Waters): *Methods for the Determination of Organic Compounds in Drinking Water*, EPA/600/4-88/039, Revision 3, 1989, Method 524.2.

Semivolatile Organics (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 3550 and 8270.

Semivolatile Organics (Waters): *Federal Register*, 40 CFR Part 136, October 26, 1984, Method 625.

TCLP Semivolatile Organics: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 1311, 3510 and 8270.

Pesticides (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 3550 and 8080.

Pesticides (Waters): *Federal Register*, 40 CFR Part 136, October 26, 1984, Method 608.

TCLP Pesticides: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 1311, 3510 and 8080.

TCLP Herbicides (Waters): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 1311 and 8150.

PCB's (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 3550 and 8080.

PCB's (Waters): *Federal Register*, 40 CFR, Part 136, October 26, 1984, Method 608.

PCB's (Oils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Methods 3580 and 8080.

Total Metals (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition. Methods 3020 or 3050 are used for digestion. All ICP metals are analyzed using Method 6010. Antimony, arsenic, cadmium, molybdenum, selenium and thallium are analyzed by Methods 7041, 7060, 7131, 7481, 7740 and 7841 respectively. Mercury is analyzed using the Inorganic Statement of Work, Contract Laboratory Program, Revision 2.1.

TCLP Metals: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 1311 followed by Method 3020 for digestion, Methods 6010 and 7470 for analysis.

ICP Metals (Waters): *Methods for the Determination of Metals in Environmental Samples*, EPA/600/4-91/010, June 1991, Revision 3.3, Method 200.7.

GFAA Metals & Mercury (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983. Antimony, arsenic, cadmium, lead, molybdenum, selenium, thallium and tin are

analyzed using Methods 204.2, 206.2, 213.2, 239.2, 246.2, 270.2, 279.2 and 282.2 respectively. Mercury is analyzed using Method 245.1.

Cyanide (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 9010.

Cyanide (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 335.2.

Cyanide (Free): *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, 1992, Method 4500-CN-I.

Phenols (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 9065.

Phenols (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 420.1.

TPH (Soils & Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 418.1 for waters and modified 418.1 for soils using a soxhlet extraction with freon prior to analysis.

TPH Extractables: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 3510 or 3550 and Modified Method 8015.

Hexavalent Chromium (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Second and Third Editions, Methods 3060 and 7196A.

Hexavalent Chromium (Waters): *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, 1992, Method 3500-Cr D.

pH (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 9040.

pH (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 150.1.

Reactive Cyanide: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Chapter Seven, Section 7.3, Reactivity.

Reactive Sulfide: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Chapter Seven, Section 7.3, Reactivity.

Ignitability: *Test Methods for Evaluating Solid Waste*, SW-848, Third Edition, Chapter Seven, Section 7.1, Ignitability.

Flashpoint: *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 1010.

Conductance (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 120.1.

Residue, Filterable (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 160.1.

Residue, Non-Filterable (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 160.2.

Residue, Total (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 160.3.

Chloride (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 325.3.

Chloride (Soils): *Test Methods for Evaluating Solid Waste*, SW-846, Third Edition, Method 9252.

Sulfide (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 376.1.

Chemical Oxygen Demand (Waters): *Hach Chemical Company*, Method 8000.

Oil & Grease (Waters): *Methods for the Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, March 1983, Method 413.1.

TOX (Waters & Soils): *American Society for Testing & Materials (ASTM)*, D2361-91, June 1991.

2,3,7,8 - TCDD/TCDF: *Modified Contract Laboratory Program Statement of Work*, November 1992.

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

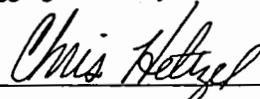
CT. NO: PH-0671
 MADEP NO: NJ386
 PADER NO: 68-463
 NJDEPE NO: 14622
 NYDOH NO: 11408

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

Date Collected: 09/12/95
 Date Submitted: 09/13/95
 Date Reported: 09/27/95
 Project: EARLE NAVAL

Sample I.D.		AA33182		AA33183	
Sample Description		C16-1 SOIL		C16-2 SOIL	
Analyte	Units	MDL	Result	MDL	Result
%SOLIDS	PERCENT	1.0	88	1.0	87
TPH-SOIL	mg/kg dry wt	23	120	23	Not detected
Sample I.D.		AA33184		AA33185	
Sample Description		C16-3 SOIL		C16-4 SOIL	
Analyte	Units	MDL	Result	MDL	Result
%SOLIDS	PERCENT	1.0	91	1.0	93
TPH-SOIL	mg/kg dry wt	22	Not detected	22	Not detected
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.


 Chris Heltzel - Laboratory Manager

Or

Stanley Gilewicz - Laboratory Director

0015

INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA33182
Sample Matrix: SOIL
% Solids: 88

Date Received: 9/13/95
Date Extracted: 9/13/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	C16-1 SOIL	120	1	23	9/14/95

INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA33183
Sample Matrix: SOIL
% Solids: 87

Date Received: 9/13/95
Date Extracted: 9/13/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	C16-2 SOIL	ND	1	23	9/14/95

INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA33184
Sample Matrix: SOIL
% Solids: 91

Date Received: 9/13/95
Date Extracted: 9/13/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	C16-3 SOIL	ND	1	22	9/14/95

INORGANIC ANALYTICAL RESULTS SUMMARY

Lab ID No.: AA33185
Sample Matrix: SOIL
% Solids: 93

Date Received: 9/13/95
Date Extracted: 9/13/95

PARAMETER	FIELD SAMPLE NO.	SAMPLE CONCEN. (mg/kg)	DILUTION FACTOR	MDL (mg/kg)	DATE ANALYZED
TPH	C16-4 SOIL	ND	1	22	9/14/95

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	404s	ND

0020

analysis TPH SOILS
 BATCH 404
 DATE: 25-Sep-95
 ANALYST: JS

Q.C. DATA

	THEORETICAL		% REC.
	VALUE	RESULT	
	PPM	PPM	
CK STD	10	10.5	105%
MBS	666.7	678.88	102%
MS #1	833.33	826.45	99%
MS #2	833.33	833.98	100%
SAMPLE		0.00	RPD
SAMPLE DUP		27.43	0.00%

SAMPLE #	SOLIDS FACTOR	SAMPLE MG WEIGHT	CALC. FROM CURVE	DILUT. FACTOR	TPH (PPM)	MDL DRY WT.
10mg 9-12	1.00	1000.0	10.4956	1.0	10.50	
MBS	1.00	15.0	10.1832	1.0	678.88	20.00
DUP 33123	0.80	15.0	0.3291	1.0	27.43	25.00
MS 33123	0.80	15.0	9.9174	1.0	826.45	25.00
MSD 33123	0.80	15.0	10.0078	1.0	833.98	25.00
MB 9-12	1.00	15.0	0.2442	1.0	16.28	20.00
33123	0.80	15.0	0.2825	1.0	23.55	25.00
33124	0.80	15.0	0.3921	1.0	32.68	25.00
33125	0.81	15.0	0.2908	1.0	23.93	24.69
33126	0.80	15.0	0.6854	1.0	57.11	25.00
33127	0.82	15.0	0.3072	1.0	24.98	24.39
MB 9-13	1.00	15.0	0.2332	1.0	15.55	20.00
10mg 9-13	1.00	1000.0	10.9258	1.0	10.93	20.00
33151	1.00	15.0	4.6779	5.0	1559.32	100.00
33182	0.88	15.0	1.5376	1.0	116.48	22.73
33183	0.87	15.0	0.2387	1.0	18.29	22.99
33184	0.91	15.0	0.2250	1.0	16.48	21.78
33185	0.93	15.0	0.1455	1.0	10.43	21.51
33162	0.90	15.0	7.9334	1.0	587.66	22.22
MB 9-15	1.00	15.0	0.1921	1.0	12.81	20.00
10mg 9-15	1.00	1000.0	9.2844	1.0	9.28	20.00
33200	0.87	15.0	1.9212	1.0	147.22	22.99
33201	0.90	15.0	0.5292	1.0	39.20	22.22
33202	0.87	15.0	0.5867	1.0	44.96	22.99
33203	0.89	15.0	0.5429	1.0	40.66	22.47
33213	0.86	15.0	2.7872	1.0	216.06	23.26

TPH LINEAR REGRESSION
TPH_15

DATE 7-13-95
ANALYST JS

STDS (MG)	ABS.
0	0.0000
2.5	0.0944
5	0.1832
10	0.3628
15	0.5355
20	0.7387

Regression Output:

Constant	-0.00021
Std Err of Y Est	0.007656
R Squared	0.999407
No. of Observations	6
Degrees of Freedom	4

X Coefficient(s) 0.036492
Std Err of Coef. 0.000444

Lot # W-95-TPH-1664

STDS (MG)	ABS.	PPM	DIFF
0	0.0000	0.0058	-0.0058
2.5	0.0944	2.5926	-0.0926
5	0.1832	5.0260	-0.0260
10	0.3628	9.9475	0.0525
15	0.5355	14.6800	0.3200
20	0.7387	20.2482	-0.2482

BATCH 404

SAMPLE	ABS.	MG
10mg 9-12	0.3828	10.4956
MBS	0.3714	10.1832
DUP 33123	0.0118	0.3291
MS 33123	0.3617	9.9174
MSD 33123	0.3650	10.0078
MB 9-12	0.0087	0.2442
33123	0.0101	0.2825
33124	0.0141	0.3921
33125	0.0104	0.2908
33126	0.0248	0.6854
33127	0.0110	0.3072
MB 9-13	0.0083	0.2332
10mg 9-13	0.3985	10.9258
33151	0.1705	4.6779
33182	0.0559	1.5376
33183	0.0085	0.2387
33184	0.0080	0.2250
33185	0.0051	0.1455
33162	0.2893	7.9334
MB 9-15	0.0068	0.1921
10mg 9-15	0.3386	9.2844
33200	0.0699	1.9212
33201	0.0191	0.5292
33202	0.0212	0.5867
33205	0.0196	0.5429
33213	0.1015	2.7872

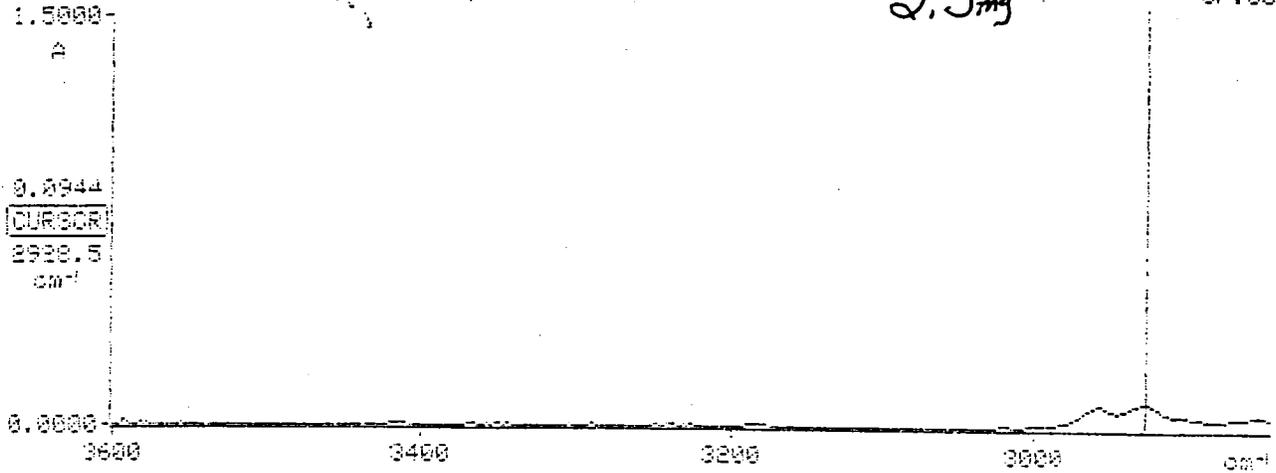
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TPH CURVE
7/13/95 JS

DIFF X Y Z 1.0
SCAN X 4
Z: 4 scans, 4.0cm-1, diff

2.5mg

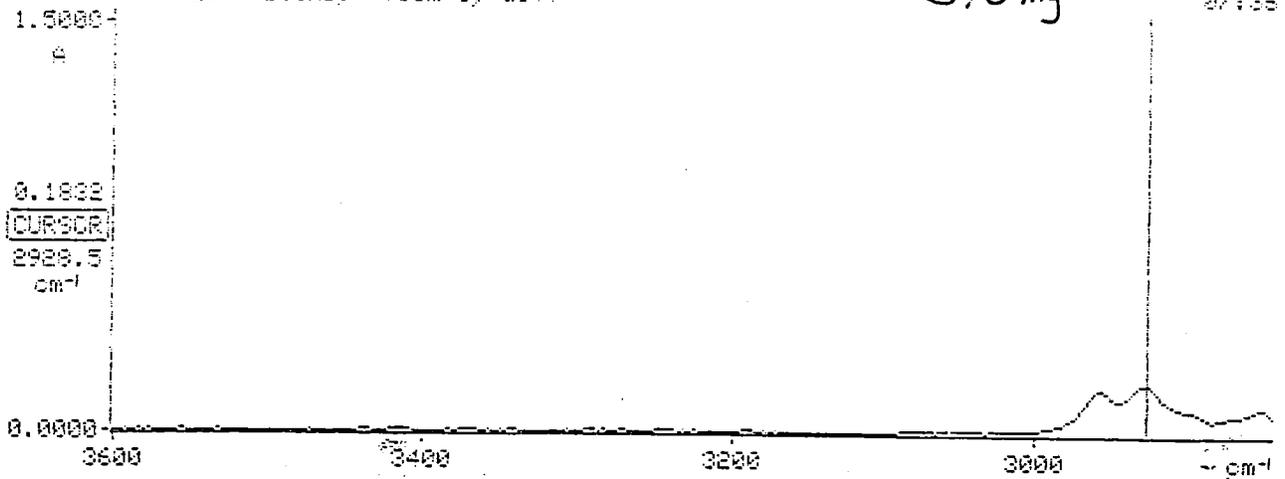
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DIFF X Y Z 1.0
SCAN X 4
Z: 4 scans, 4.0cm-1, diff

5.0mg

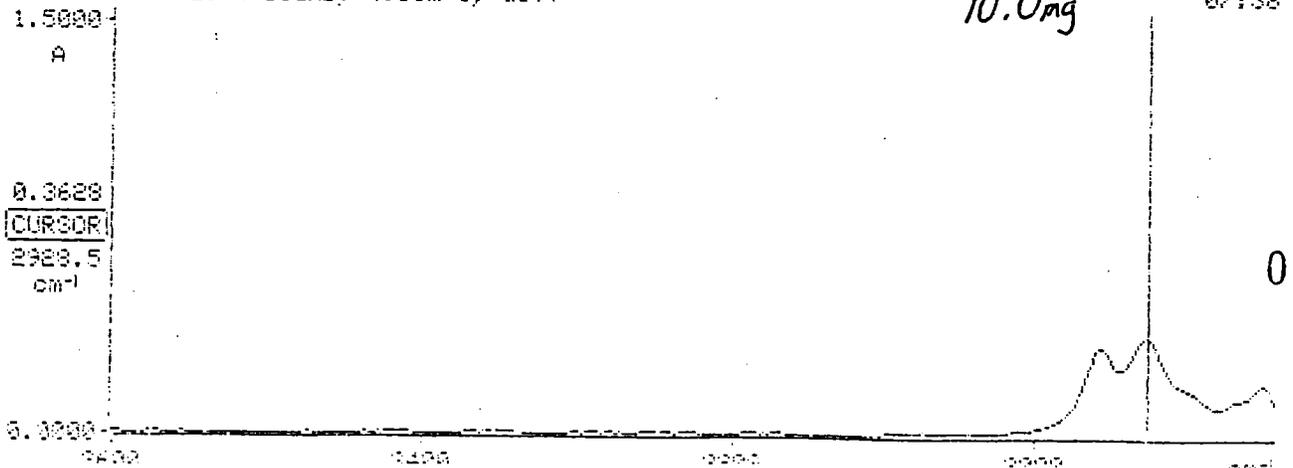
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DIFF X Y Z 1.0
SCAN X 4
Z: 4 scans, 4.0cm-1, diff

10.0mg

07:38



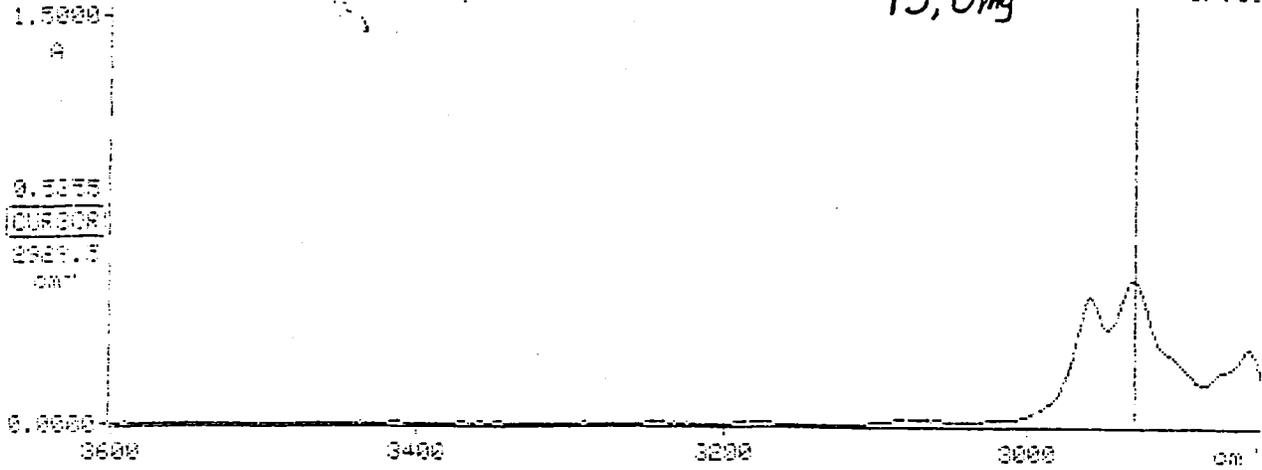
0026

TPH CURVE
7/13/95 JS

DIFF X Y Z 1.0
SCAN X A
Z: 4 scans, 4.8cm-1, diff

15.0mg

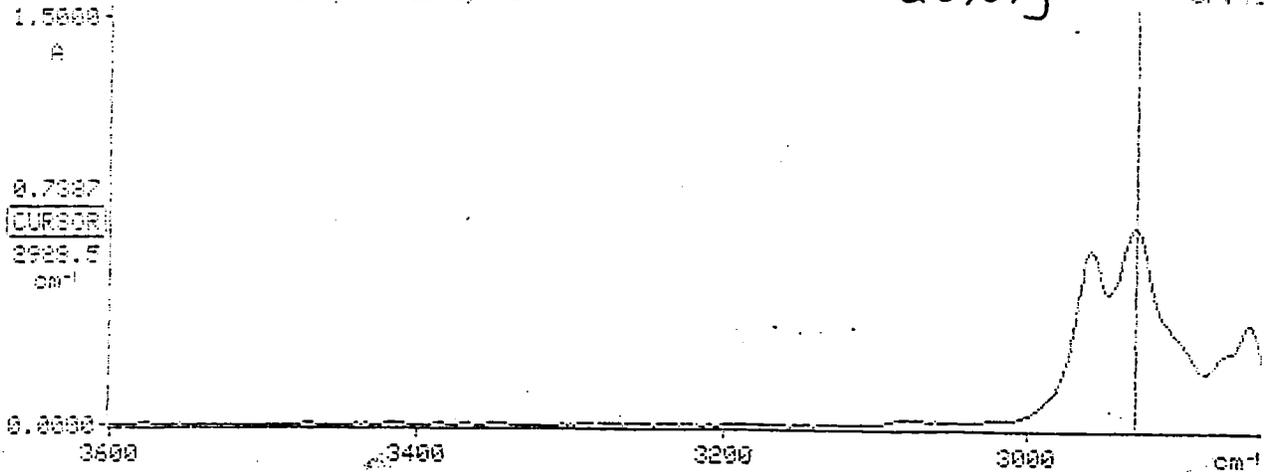
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DIFF X Y Z 1.0
SCAN X A
Z: 4 scans, 4.8cm-1, diff

20.0mg

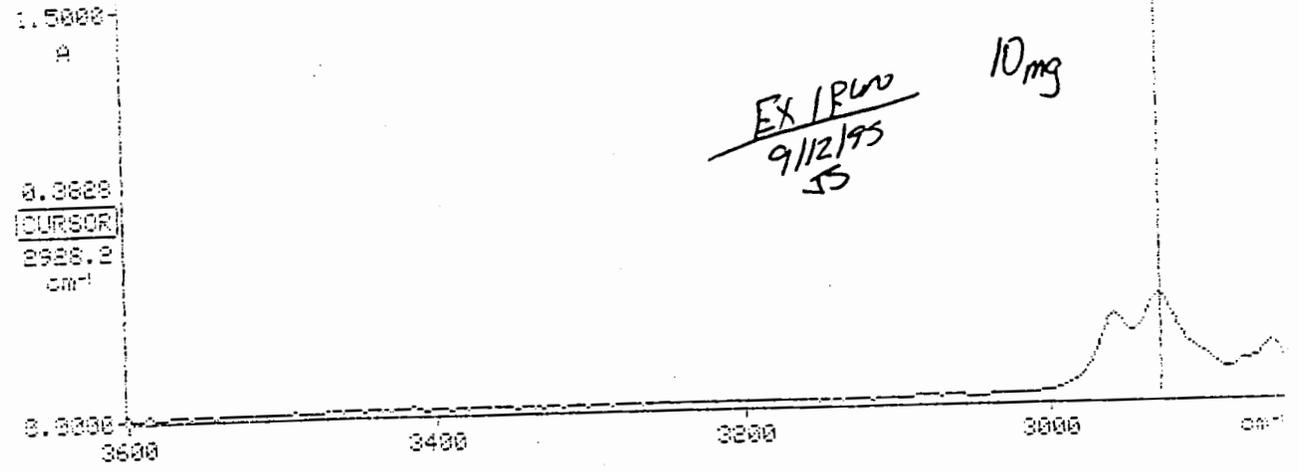
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0027

SCAN X 4
4 scans, 4.0cm-1, diff

#404 10:55



EX 1 PLUO
9/12/95
JS

10mg

DIFF X Y Z 1.0
SCAN X 4

D: 4 scans, 4.0cm-1, diff

#404

12:11

1.5000

0

0.0000

CURSOR

2988.2

cm⁻¹

EX IRAD
9/11 / 9/12
-15

MIB

0.0000

3600

3400

3200

3000

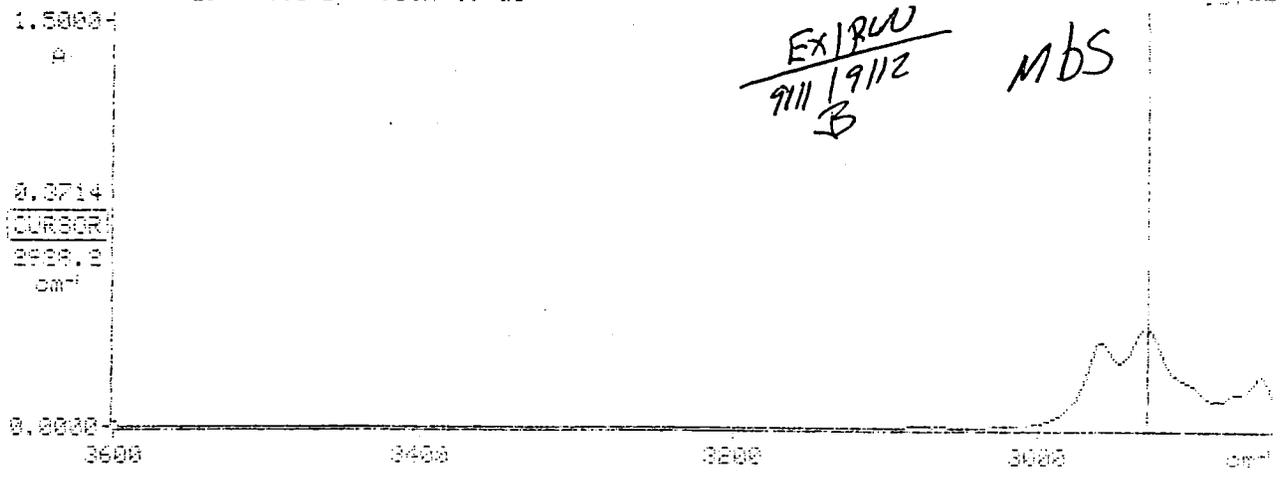
cm⁻¹

0029

SCAN X 4
DIFF X Y Z 1.0
SCAN X 4
DIFF X Y Z 1.0
SCAN X 4
Z: 4 scans, 4.0cm-1, diff

#404

13:44



EXIRU
9/11/91
B

MBS

SCAN X 4
Z: 4 scans, 4.0cm-1, diff

#404 15:39

1.5000
A
2.3617
CURSOR
2929.2
cm⁻¹

EX/RW
9/11/12 MS

0.0000 3600 3400 3200 3000 cm⁻¹

DIFF X Y Z 1.0
SCAN X 4
Z: 4 scans, 4.0cm-1, diff

#404 15:40

1.5000
A
2.3450
CURSOR
2929.2
cm⁻¹

EX/RW
9/11/12 MSD

0.0000 3600 3400 3200 3000 cm⁻¹

SCAN X 4

1.50000

Z: 4 scans, 4.0cm-1, diff

A

0.0119

CURSOR

2929.2

cm²

0.0000

3600

3400

3200

3000

cm²

DIFF X Y Z 1.0
SCAN X 4

1.50000

Z: 4 scans, 4.0cm-1, diff

A

0.0101

CURSOR

2929.2

cm²

0.0000

3600

3400

3200

3000

cm²

DIFF X Y Z 1.0
SCAN X 4

#404

12:17

EX/RUN DUP
9/11/912 33123

#404

12:13

EX/RUN
9/11/912 33123

DIFF X Y Z 1.0
SCAN X 4

Z: 4 scans, 4.8cm-1, diff

1.5000

a

0.0000

CURSOR

2928.2

cm⁻¹

0.0000

3600

3400

3200

3000

cm⁻¹

DIFF X Y Z 1.0
SCAN X 4

#404

15:43

EX1000
9/11/95
3

MB

DIFF X Y Z 1.0
SCAN X A

Z: 4 scans, 4.0cm-1, diff

1.5000
A

0.1785
CURSOR
2938.2
cm⁻¹

EX/RUN
S
9/13/95

#404

15:48

33131

(x5)

0.5000
3600

3400

3200

3000

cm⁻¹

DIFF X Y Z 1.0
SCAN X A

Z: 4 scans, 4.0cm-1, diff

1.5000
A

0.0559
CURSOR
2938.2
cm⁻¹

EX/RUN
S
9/13/95

#404

15:49

33182

0.5000
3600

3400

3200

3000

cm⁻¹

DIFF X Y Z 1.0
SCAN X A

Z: 4 scans, 4.0cm-1, diff

1.5000
A

0.0085
CURSOR
2938.2
cm⁻¹

EX/RUN
S
9/13/95

#404

15:51

33183

0.5000
3600

3400

3200

3000

cm⁻¹

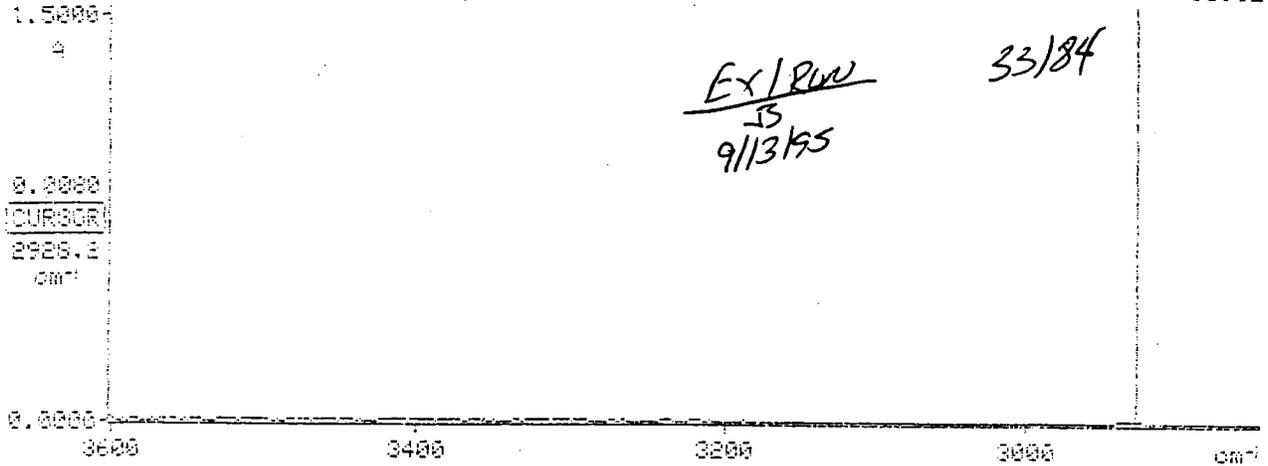
0035

DIFF X Y Z 1.0
SCAN X 4

Z: 4 scans, 4.8cm-1, diff

#404

15:52

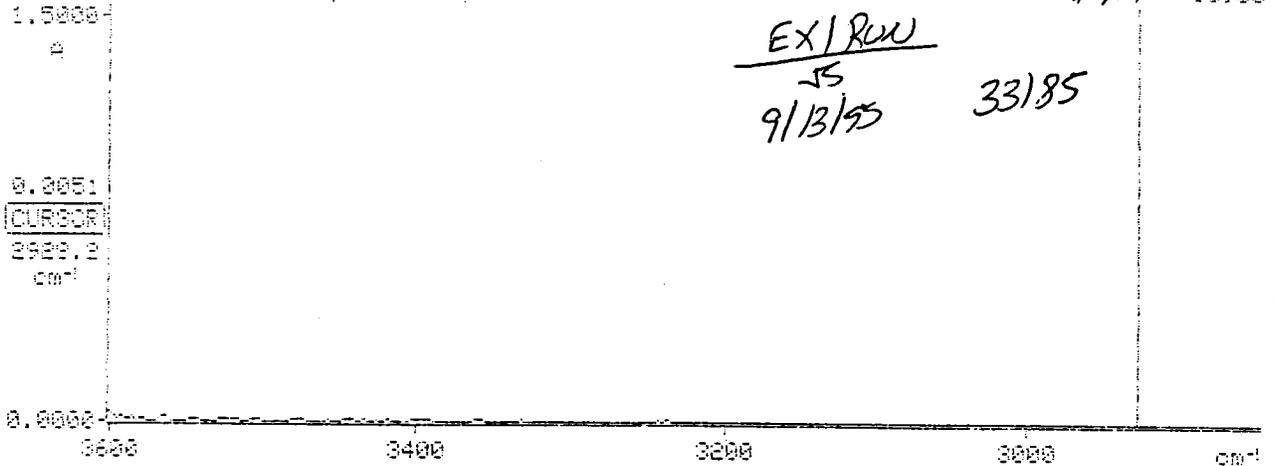


DIFF X Y Z 1.0
SCAN X 4

Z: 4 scans, 4.8cm-1, diff

#404

15:53



DIFF X Y Z 1.0
SCAN X 4
DIFF X Y Z 1.0
SCAN X 4

Z: 4 scans, 4.8cm-1, diff

#404

15:56

